

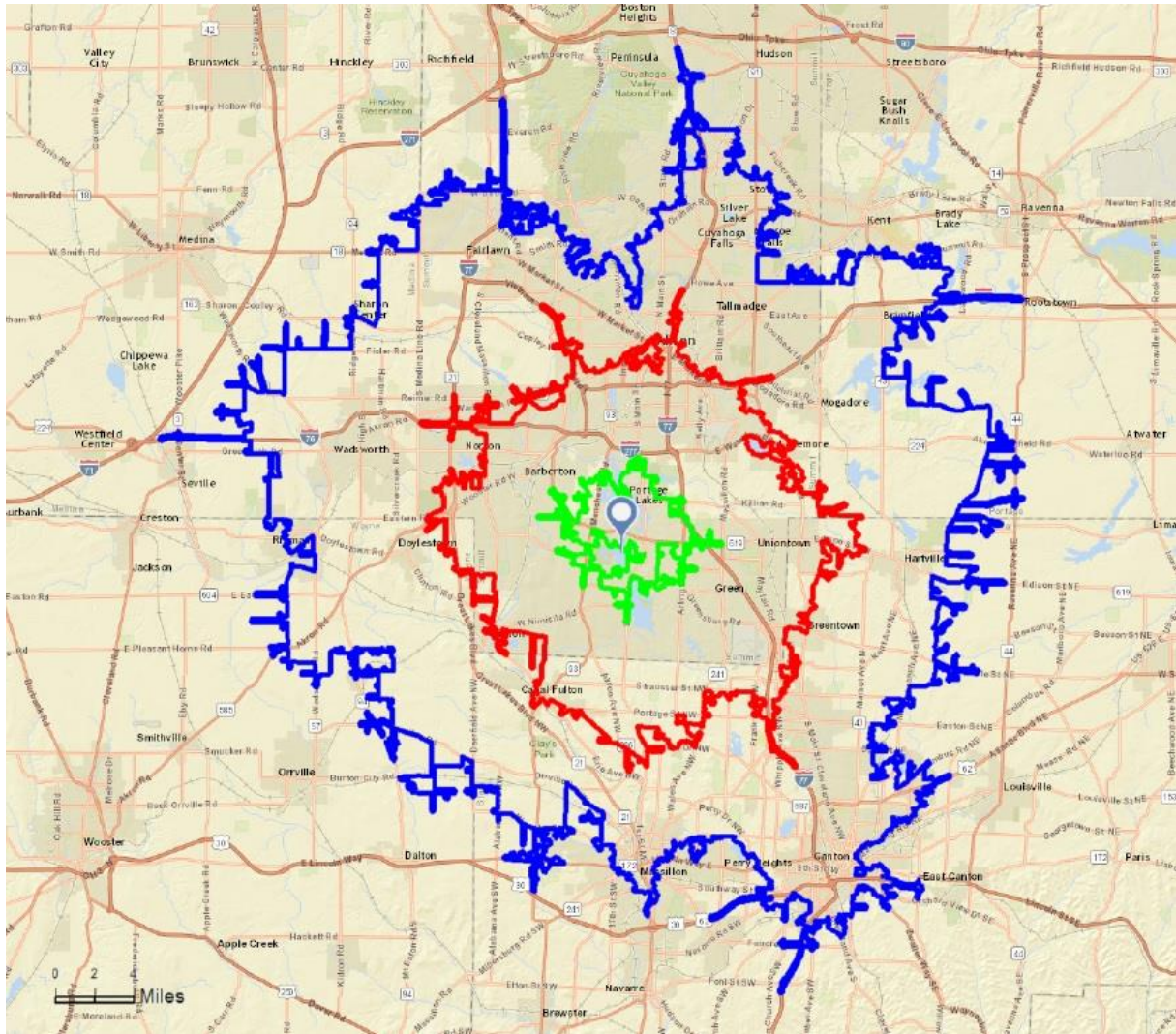
APPENDIX D

Economics of Boating

Appendix D Economics of Boating

To determine who might be using the Portage Lakes, drive time from the Portage Lakes was calculated by actual street network drive distance to determine the population within a 10, 20, and 30 minute drive to the lakes. Census data and forecasts were calculated for each drive time.

Map 33 Drive Time



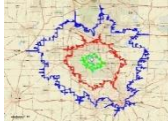


Table 4: Portage Lakes Community Profile

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
Population Summary			
2016 Total Population	15,858	209,498	695,808
2016 Group Quarters	163	4,331	14,327
2021 Total Population	15,909	210,202	700,217
2016-2021 Annual Rate	0.06%	0.07%	0.13%
Household Summary			
2016 Households	6,960	83,877	288,102
2016 Average Household Size	2.26	2.45	2.37
2021 Households	6,999	84,296	290,623
2021 Average Household Size	2.25	2.44	2.36
2016-2021 Annual Rate	0.11%	0.10%	0.17%
2016 Families	4,278	53,724	179,316
2016 Average Family Size	2.83	3.00	2.96
2021 Families	4,264	53,604	179,499
2021 Average Family Size	2.83	3.00	2.97
2016-2021 Annual Rate	-0.07%	-0.04%	0.02%
Housing Unit Summary			
2016 Housing Units	7,671	94,172	319,026
Owner Occupied Housing Units	64.5%	56.3%	57.2%
Renter Occupied Housing Units	26.3%	32.8%	33.2%
Vacant Housing Units	9.3%	10.9%	9.7%
2021 Housing Units	7,717	95,023	322,441
Owner Occupied Housing Units	64.6%	56.1%	56.9%
Renter Occupied Housing Units	26.1%	32.6%	33.2%
Vacant Housing Units	9.3%	11.3%	9.9%
Median Household Income			
2016	\$54,733	\$43,109	\$46,256
2021	\$61,604	\$50,148	\$52,564
Median Home Value			
2016	\$161,720	\$118,059	\$131,466
2021	\$189,934	\$151,280	\$160,598
Per Capita Income			
2016	\$30,976	\$23,269	\$26,402
2021	\$34,710	\$25,620	\$29,091
Median Age			
2016	46.6	39.6	41.0
2021	47.7	40.3	41.6

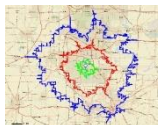


Table 4: Portage Lakes Community Profile Cont.

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
2016 Households by Income			
Household Income Base	6,960	83,877	288,102
<\$15,000	10.4%	17.5%	14.7%
\$15,000 - \$24,999	7.8%	11.7%	11.6%
\$25,000 - \$34,999	10.2%	11.5%	11.6%
\$35,000 - \$49,999	15.4%	15.0%	15.0%
\$50,000 - \$74,999	23.0%	18.6%	18.5%
\$75,000 - \$99,999	13.9%	10.7%	11.4%
\$100,000 - \$149,999	11.3%	9.9%	10.8%
\$150,000 - \$199,999	4.6%	3.0%	3.3%
\$200,000+	3.4%	2.1%	3.0%
Average Household Income	\$70,581	\$57,642	\$63,068
2021 Households by Income			
Household Income Base	6,999	84,296	290,623
<\$15,000	10.2%	17.6%	14.7%
\$15,000 - \$24,999	7.3%	11.1%	11.0%
\$25,000 - \$34,999	10.7%	11.8%	12.0%
\$35,000 - \$49,999	8.5%	9.3%	9.3%
\$50,000 - \$74,999	23.3%	20.1%	19.7%
\$75,000 - \$99,999	16.5%	12.2%	13.0%
\$100,000 - \$149,999	13.7%	11.9%	12.8%
\$150,000 - \$199,999	5.8%	3.7%	4.0%
\$200,000+	4.0%	2.3%	3.4%
Average Household Income	\$78,978	\$63,435	\$69,416
2016 Owner Occupied Housing Units by Value			
Total	4,944	52,998	182,319
<\$50,000	6.8%	11.1%	8.8%
\$50,000 - \$99,999	18.1%	31.3%	26.0%
\$100,000 - \$149,999	19.7%	20.9%	24.2%
\$150,000 - \$199,999	22.7%	16.1%	17.0%
\$200,000 - \$249,999	12.0%	8.8%	9.4%
\$250,000 - \$299,999	6.9%	4.5%	4.8%
\$300,000 - \$399,999	6.6%	3.9%	5.0%
\$400,000 - \$499,999	4.2%	1.6%	2.8%
\$500,000 - \$749,999	2.3%	1.1%	1.5%
\$750,000 - \$999,999	0.2%	0.2%	0.3%
\$1,000,000 +	0.4%	0.3%	0.3%
Average Home Value	\$189,229	\$146,614	\$161,101
2021 Owner Occupied Housing Units by Value			
Total	4,985	53,306	183,528
<\$50,000	4.0%	8.6%	6.5%
\$50,000 - \$99,999	10.5%	25.9%	21.1%
\$100,000 - \$149,999	12.5%	14.9%	17.7%
\$150,000 - \$199,999	28.8%	21.1%	22.2%
\$200,000 - \$249,999	17.6%	14.2%	14.5%
\$250,000 - \$299,999	10.0%	6.8%	7.1%
\$300,000 - \$399,999	7.7%	4.5%	5.3%
\$400,000 - \$499,999	5.5%	2.1%	3.3%
\$500,000 - \$749,999	2.7%	1.4%	1.7%
\$750,000 - \$999,999	0.4%	0.3%	0.3%
\$1,000,000 +	0.3%	0.3%	0.2%

Average Home Value

\$217,869

\$166,951

\$180,300

Data Note: Income represents the preceding year, expressed in current dollars. Household income includes wage and salary earnings, interest dividends, net rents, pensions, SSI and welfare payments, child support, and alimony.

Source: U.S. Census Bureau, Census 2010 Summary File 1. Esri forecasts for 2016 and 2021. Esri converted Census 2000 data into 2010 geography.

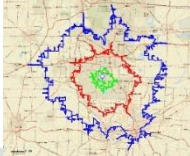


Table 4: Portage Lakes Community Profile Cont.

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
2016 Population by Age			
Total	15,858	209,498	695,807
0 - 4	4.1%	5.9%	5.7%
5 - 9	4.9%	6.0%	5.8%
10 - 14	5.4%	6.2%	6.1%
15 - 24	10.3%	14.2%	12.9%
25 - 34	11.6%	12.4%	12.5%
35 - 44	11.6%	11.8%	11.9%
45 - 54	14.1%	13.5%	13.5%
55 - 64	16.7%	14.0%	14.3%
65 - 74	12.4%	9.4%	9.7%
75 - 84	6.0%	4.6%	5.1%
85 +	2.9%	2.0%	2.6%
18 +	82.5%	78.2%	78.8%
2021 Population by Age			
Total	15,909	210,202	700,216
0 - 4	4.0%	5.9%	5.6%
5 - 9	4.6%	5.8%	5.7%
10 - 14	5.4%	6.1%	6.0%
15 - 24	9.5%	13.3%	12.1%
25 - 34	11.0%	12.6%	12.6%
35 - 44	12.3%	11.9%	12.1%
45 - 54	12.7%	12.3%	12.3%
55 - 64	15.5%	13.7%	13.9%
65 - 74	14.9%	11.1%	11.5%
75 - 84	7.1%	5.2%	5.8%
85 +	3.0%	2.0%	2.6%
18 +	82.9%	78.6%	79.3%

Source: U.S. Census Bureau, Census 2010 Summary File 1. Esri forecasts for 2016 and 2021. Esri converted Census 2000 data into 2010 geography.

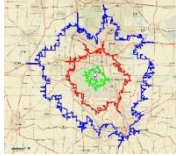


Table 4: Portage Lakes Community Profile Cont.

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
2016 Population by Race/Ethnicity			
Total	15,857	209,498	695,808
White Alone	95.8%	79.7%	81.5%
Black Alone	1.4%	14.7%	13.0%
American Indian Alone	0.2%	0.3%	0.2%
Asian Alone	0.9%	2.0%	2.0%
Pacific Islander Alone	0.0%	0.0%	0.0%
Some Other Race Alone	0.2%	0.5%	0.6%
Two or More Races	1.4%	2.8%	2.7%
Hispanic Origin	1.2%	1.9%	2.2%
Diversity Index	10.4	36.8	34.8
2021 Population by Race/Ethnicity			
Total	15,908	210,201	700,218
White Alone	95.0%	78.4%	80.2%
Black Alone	1.6%	14.9%	13.2%
American Indian Alone	0.2%	0.3%	0.2%
Asian Alone	1.2%	2.5%	2.5%
Pacific Islander Alone	0.0%	0.0%	0.0%
Some Other Race Alone	0.3%	0.6%	0.7%
Two or More Races	1.7%	3.3%	3.2%
Hispanic Origin	1.5%	2.4%	2.7%
Diversity Index	12.4	39.2	37.4

Source: U.S. Census Bureau, Census 2010 Summary File 1. Esri forecasts for 2016 and 2021. Esri converted Census 2000 data into 2010 geography.

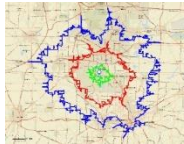


Table 4: Portage Lakes Community Profile Cont.

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
2016 Population 25+ by Educational Attainment			
Total	11,945	141,643	483,731
Less than 9th Grade	1.7%	2.4%	2.3%
9th - 12th Grade, No Diploma	5.7%	8.6%	6.8%
High School Graduate	30.9%	34.4%	31.0%
GED/Alternative Credential	3.6%	4.0%	3.1%
Some College, No Degree	19.8%	20.3%	20.7%
Associate Degree	7.9%	8.9%	8.9%
Bachelor's Degree	21.3%	14.5%	17.9%
Graduate/Professional Degree	9.2%	6.8%	9.3%
2016 Population 15+ by Marital Status			
Total	13,576	171,490	573,416
Never Married	30.0%	35.5%	33.1%
Married	48.7%	44.7%	47.1%
Widowed	7.7%	6.8%	6.7%
Divorced	13.6%	13.0%	13.1%
2016 Civilian Population 16+ in Labor Force			
Civilian Employed	95.1%	92.6%	93.5%
Civilian Unemployed	4.9%	7.4%	6.5%
2016 Employed Population 16+ by Industry			
Total	8,560	96,879	332,836
Agriculture/Mining	0.1%	0.3%	0.5%
Construction	8.8%	6.8%	5.7%
Manufacturing	16.6%	15.4%	15.5%
Wholesale Trade	4.4%	3.2%	3.1%
Retail Trade	9.8%	12.2%	12.3%
Transportation/Utilities	6.5%	5.5%	4.6%
Information	1.2%	1.2%	1.4%
Finance/Insurance/Real Estate	6.2%	5.0%	5.5%
Services	43.8%	47.6%	48.6%
Public Administration	2.6%	2.8%	2.9%
2016 Employed Population 16+ by Occupation			
Total	8,559	96,879	332,834
White Collar	57.3%	55.6%	59.5%
Management/Business/Financial	13.0%	11.5%	13.0%
Professional	19.4%	19.3%	21.5%
Sales	10.4%	10.9%	11.3%
Administrative Support	14.5%	13.9%	13.7%
Services	17.3%	19.1%	18.3%
Blue Collar	25.3%	25.3%	22.2%
Farming/Forestry/Fishing	0.0%	0.1%	0.2%
Construction/Extraction	6.3%	5.4%	4.3%
Installation/Maintenance/Repair	4.4%	3.7%	3.3%
Production	9.1%	8.8%	8.0%
Transportation/Material Moving	5.5%	7.4%	6.4%

Source: U.S. Census Bureau, Census 2010 Summary File 1. Esri forecasts for 2016 and 2021. Esri converted Census 2000 data into 2010 geography.

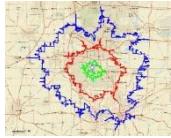


Table 4: Portage Lakes Community Profile Cont.

40.96915, -81.53879

Drive Times: 10, 20, 30 minute radii

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

	10 minutes	20 minutes	30 minutes
2016 Consumer Spending			
Apparel & Services: Total \$	\$12,445,724	\$125,235,461	\$468,949,713
Average Spent	\$1,788.18	\$1,493.08	\$1,627.72
Spending Potential Index	89	74	81
Education: Total \$	\$8,642,805	\$89,808,089	\$333,802,322
Average Spent	\$1,241.78	\$1,070.71	\$1,158.63
Spending Potential Index	88	76	82
Entertainment/Recreation: Total \$	\$18,719,899	\$183,601,127	\$688,694,109
Average Spent	\$2,689.64	\$2,188.93	\$2,390.45
Spending Potential Index	92	75	82
Food at Home: Total \$	\$32,046,779	\$323,280,511	\$1,201,732,712
Average Spent	\$4,604.42	\$3,854.22	\$4,171.21
Spending Potential Index	92	77	84
Food Away from Home: Total \$	\$19,371,428	\$194,033,338	\$726,448,277
Average Spent	\$2,783.25	\$2,313.31	\$2,521.50
Spending Potential Index	90	75	82
Health Care: Total \$	\$35,860,048	\$343,718,575	\$1,288,235,164
Average Spent	\$5,152.31	\$4,097.89	\$4,471.46
Spending Potential Index	97	77	84
HH Furnishings & Equipment: Total \$	\$11,325,784	\$111,353,409	\$418,496,565
Average Spent	\$1,627.27	\$1,327.58	\$1,452.60
Spending Potential Index	92	75	82
Personal Care Products & Services: Total \$	\$4,654,741	\$45,370,386	\$171,433,997
Average Spent	\$668.78	\$540.92	\$595.05
Spending Potential Index	91	74	81
Shelter: Total \$	\$96,164,258	\$966,694,918	\$3,645,233,870
Average Spent	\$13,816.70	\$11,525.15	\$12,652.58
Spending Potential Index	89	74	81
Support Payments/Cash Contributions/Gifts in Kind: Total \$	\$15,729,072	\$149,914,535	\$566,043,375
Average Spent	\$2,259.92	\$1,787.31	\$1,964.73
Spending Potential Index	97	77	85
Travel: Total \$	\$11,887,581	\$113,247,961	\$430,985,424
Average Spent	\$1,707.99	\$1,350.17	\$1,495.95
Spending Potential Index	92	73	80
Vehicle Maintenance & Repairs: Total \$	\$6,743,709	\$66,195,945	\$247,321,949
Average Spent	\$968.92	\$789.20	\$858.45
Spending Potential Index	94	76	83

Source: Consumer Spending data are derived from the 2013 and 2014 Consumer Expenditure Surveys, Bureau of Labor Statistics. Esri.

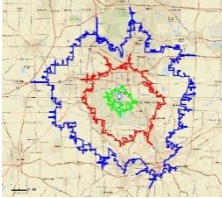


Table 5: Portage Lakes Recreation Expenditures

40.96915, -81.53879
Drive Time: 10 minute radius

Prepared by NEFCO
Latitude: 40.96915
Longitude: -81.53879

Demographic Summary		2016	2021
Population		15,858	15,909
Households		6,960	6,999
Families		4,278	4,264
Median Age		46.6	47.7
Median Household Income		\$54,733	\$61,604
	Spending Potential Index	Average Amount Spent	Total
Recreational Vehicles and Fees	96	\$103.75	\$722,075
Docking and Landing Fees for Boats and Planes	100	\$7.73	\$53,771
Camp Fees	104	\$37.54	\$261,273
Payments on Boats/Trailers/Campers/RVs	93	\$44.55	\$310,041
Rental of RVs or Boats	88	\$13.94	\$96,991
Sports, Recreation and Exercise Equipment	88	\$145.57	\$1,013,192
Exercise Equipment and Gear, Game Tables	94	\$50.98	\$354,828
Bicycles	79	\$20.50	\$142,671
Camping Equipment	88	\$13.11	\$91,216
Hunting and Fishing Equipment	87	\$41.02	\$285,467
Winter Sports Equipment	80	\$4.03	\$28,021
Water Sports Equipment	80	\$4.24	\$29,533
Other Sports Equipment	97	\$9.23	\$64,207
Rental/Repair of Sports/Recreation/Exercise Equipment	85	\$2.48	\$17,252
Photographic Equipment and Supplies	92	\$50.64	\$352,439
Film	91	\$0.84	\$5,858
Film Processing	98	\$7.37	\$51,278
Photographic Equipment	89	\$21.21	\$147,652
Photographer Fees/Other Supplies & Equip Rental/Repair	93	\$21.21	\$147,652

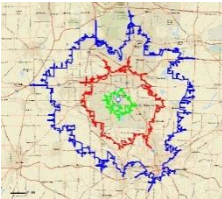


Table 5: Portage Lakes Recreation Expenditures Cont.

40.96915, -81.53879
Drive Time: 20 minute radius

Prepared by NEFCO
Latitude: 40.96915
Longitude: -81.53879

Demographic Summary		2016	2021
Population		209,498	210,202
Households		83,877	84,296
Families		53,724	53,604
Median Age		39.6	40.3
Median Household Income		\$43,109	\$50,148
	Spending Potential Index	Average Amount Spent	Total
Recreational Vehicles and Fees	75	\$81.07	\$6,799,494
Docking and Landing Fees for Boats and Planes	77	\$5.93	\$497,379
Camp Fees	84	\$30.43	\$2,552,510
Payments on Boats/Trailers/Campers/RVs	70	\$33.61	\$2,818,856
Rental of RVs or Boats	70	\$11.10	\$930,749
Sports, Recreation and Exercise Equipment	69	\$114.66	\$9,617,629
Exercise Equipment and Gear, Game Tables	72	\$39.29	\$3,295,620
Bicycles	66	\$17.19	\$1,441,575
Camping Equipment	76	\$11.39	\$955,631

Hunting and Fishing Equipment	65	\$30.99	\$2,599,415
Winter Sports Equipment	62	\$3.12	\$261,954
Water Sports Equipment	62	\$3.27	\$274,080
Other Sports Equipment	78	\$7.42	\$622,310
Rental/Repair of Sports/Recreation/Exercise Equipment	68	\$1.99	\$167,045
Photographic Equipment and Supplies	75	\$41.39	\$3,471,489
Film	72	\$0.66	\$55,599
Film Processing	79	\$5.93	\$497,037
Photographic Equipment	73	\$17.42	\$1,460,771
Photographer Fees/Other Supplies & Equip Rental/Repair	76	\$17.38	\$1,458,083

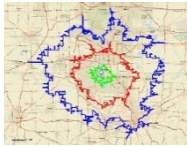


Table 5: Portage Lakes Recreation Expenditures Cont.

40.96915, -81.53879

Drive Time: 30 minute radius

Prepared by NEFCO

Latitude: 40.96915

Longitude: -81.53879

Demographic Summary		2016	2021	
Population		695,808	700,217	
Households		288,102	290,623	
Families		179,316	179,499	
Median Age		41.0	41.6	
Median Household Income		\$46,256	\$52,564	
		Spending Potential Index	Average Amount Spent	
			Total	
Recreational Vehicles and Fees		82	\$88.39	\$25,465,449
Docking and Landing Fees for Boats and Planes		86	\$6.59	\$1,898,611
Camp Fees		91	\$32.73	\$9,429,908
Payments on Boats/Trailers/Campers/RVs		76	\$36.69	\$10,570,573
Rental of RVs or Boats		78	\$12.38	\$3,566,357
Sports, Recreation and Exercise Equipment		76	\$125.75	\$36,229,803
Exercise Equipment and Gear, Game Tables		78	\$42.72	\$12,307,499
Bicycles		74	\$19.20	\$5,530,467
Camping Equipment		83	\$12.41	\$3,576,496
Hunting and Fishing Equipment		72	\$34.01	\$9,797,200
Winter Sports Equipment		70	\$3.51	\$1,011,985
Water Sports Equipment		70	\$3.71	\$1,067,466
Other Sports Equipment		84	\$7.98	\$2,298,281
Rental/Repair of Sports/Recreation/Exercise Equipment		76	\$2.22	\$640,410
Photographic Equipment and Supplies		82	\$45.38	\$13,072,704
Film		79	\$0.73	\$211,020
Film Processing		85	\$6.42	\$1,850,115
Photographic Equipment		81	\$19.16	\$5,519,385
Photographer Fees/Other Supplies & Equip Rental/Repair		83	\$19.06	\$5,492,183

Data Note: The Spending Potential Index (SPI) is household-based, and represents the amount spent for a product or service relative to a national average of 100. Detail may not sum to totals due to rounding.

Source: Esri forecasts for 2016 and 2021; Consumer Spending data are derived from the 2013 and 2014 Consumer Expenditure Surveys, Bureau of Labor Statistics.

Lakers enjoy the lakes from their boats. There are around 2,000 private docks along the lakes. Many others keep their boats at marinas or clubs. Roughly 700,000 people live within a one hour drive of the Portage Lakes. According to a 1999 Ohio Division of Watercraft study, it is estimated that one in four own boats (63% powerboats, 19% canoes/kayaks, 10% personal watercrafts, and 1% sailboats) are making an average of 15.6 trips to Ohio boating sites. They come to the lakes for fishing, cruising, and a growing number will be canoeing and kayaking on the Portage Lakes Water Trail. Seventy percent of boat owners do not dock their vessels and launch. The average boater travels 38 miles one-way to their boating sites. The average expenditure per boater is \$3,600 per year and the trip expenditures benefit the local economy. So the water quality of the lakes is important to the three local communities' economies.

According to a Michigan State University's Regional Marine Research Center's National Boater Panel in 2003, boat owners spend an average of \$3,600 per year on their boats. This includes \$1,400 on craft related expenses, \$2,200 on trip-related expenses over an average of 23 boating days per season. These averages are heavily weighted toward the high percentage of mostly smaller watercraft. Owners of larger boats over 41 feet spend \$20,000 per year. The average spending per boat per day trip varied from \$76 for boats less than 16 feet in length to \$275 per day for boats larger than 40 feet. The greatest trip expenses were for fuel (22%) restaurants and bars (17%), and groceries (14%). The majority of annual craft expenses are for equipment (39%), maintenance and repairs (29%) and insurance (14%).

Table 3: Percentage Trip Expenses

Fuel	22
Restaurants and bars	17
Groceries	14
Equipment	39
Maintenance and repairs	29
Insurance	14

Source: Michigan State University's Regional Marine Research Center's National Boater Panel in 2003

The boat slip count is the most significant item in estimating marina value. Another indicator is services. The number, length, rental and vacancy rates of slips affect value. Income sources include slip rentals, winter wet and dry storage, temporary dockage, rack storage, boat washing and repairs, launching fees, gasoline sales, bait and tackle sales, and boat sales. Other indicators may include gasoline sales, restaurant receipts, and boat sales and repairs. Repair operations can increase the demand for slips, because of the convenience of having a repair facility on site. Equipment may include travel cranes, forklifts, saddle lift trucks, stationary lifts, and stacking cranes.

Table 4: Performance of Marina Product Lines as of the 2002 Census

	Percent
Pleasure boat dockage, slip rental, launch fees, \$ storage	39.02
Merchandise sales	24.22
Personal & household goods, gas, repair, & maintenance	14.54
Sales of food & beverages	8.09
Membership dues	5.66
Other	8.48

According to national data, the age of marinas is around 40 years. The average marina has between three and ten employees and annual revenues of \$400,000. Today's marinas are generally freestanding and dockage is considered the main profit center of the business. Marina dockage rates are generally charged on a daily, monthly, seasonal and annual basis and dockage rates are normally calculated by a per ft charge based on the length of the boat. Rent varies according to the length of slip a boat needs. Guest slip rates are usually between \$2 to \$3 per foot per day. Marinas slip rates averaged \$120 to \$250 per month depending on the length. Dry stack storage costs are also based on per ft rate and can range from \$2,500 to \$4, 500 per year for a 25' boat

Table 5: Length and Types of Boats in Ohio (2009)

Length of Powerboats in Ohio		
Under 16 Feet	84,532	31
16 to Less than 26 Feet	166,431	62
26 to Less than 40 Feet	16,850	6
40 to 65 Feet	1,432	1
Over 65 Feet	23	<1
<i>All Powerboats</i>	<i>269,268</i>	
Length of Sailboats in Ohio		
Under 16 Feet	138	4
16 to Less than 26 Feet	881	29
26 to Less than 40 Feet	1,897	62
40 to 65 Feet	156	5
Over 65 Feet	0	
<i>All Sailboats (auxiliary sail)</i>	<i>3,072</i>	
Other Craft		
Rowboats	11,702	
Sailboats (no power auxiliary)	7,306	
Canoes/Kayaks	82,670	
Personal Watercraft	43,391	
Other Boats	1,574	
Commercial Vessels	381	
TOTAL (not including liveries)	419,364	
Total Liveries	52	
Livery Boats	5,894	
TOTAL (including liveries)	425,258	

In 1999, the Ohio Division of Watercraft conducted a random sample of 5,544 boating households from the 407,688 registered boats in 1998 to evaluate spending by recreational boaters and how that spending affected the state of the economy and Ohio business, from marine-related firms such as marinas and boat dealers to restaurants, hotels, and other services. Responses were received from 2,339 for a response rate of 42 percent. The typical boating household owned 1.7 boats; the primary boat was 16-21 feet long with a book value of \$8,900. The average respondent made 15.6 trips to Ohio boating sites which 4.3 were to Lake Erie sites. The largest portion of time was spend fishing (50%) followed by cruising (17%) and canoeing-kayaking-rowing (8%). 31% kept their boats at private docks, marinas, or clubs.

Table 6: Expenditures by Boat-Owning Households

Total trip related expenditures	\$2,104
Typical trip related expenditures	\$134
Food and lodging per trip	\$55
Fuel, transient docking, etc.	\$37
Other	\$42
Annual Maintenance, fees, repairs	\$920
Equipment purchases	\$293

Source: Ohio Division of Watercraft, 1999.