



CHAPTER 3

Supply of Outdoor Recreation Acreage in Indiana

Chapter Three examines the current supply of outdoor recreation acreage in Indiana. The two previous chapters gave an overview of the public input for this SCORP, determined the main issues and trends, and subjected them to a needs analysis. The surveys looked at both the public point of view and the parks and recreation provider perspective. The purpose was to better understand the outdoor recreation needs of all Hoosiers.

Looking at the supply of outdoor recreation acreage in Indiana gives us yet another measurement to assess outdoor recreation needs. The DNR Division of Outdoor Recreation maintains a database of facilities statewide to help track the supply of these resources. This inventory database is maintained primarily from self-reported local government data, research (including the internet, park websites, etc.), and data reported in local five-year parks and recreation master plans kept on file with the Division of Outdoor Recreation.

The data from this inventory are used in this chapter to compare the current amount of public outdoor recreation acreage on the local, State/federal and total (statewide) levels with national and state guidelines, and provide another basis for statewide strategic park planning. All population data used in this SCORP are taken from the latest available primary source: the U.S. Census 2018 Population Esti-

mates, which were released in spring 2019 for public use.

NATIONAL RECREATION AND PARKS ASSOCIATION GUIDELINES FOR PUBLIC PARK ACREAGE

Drs. James D. Mertes and James R. Hall co-authored (with editor Roger A. Lancaster) the definitive book on recreation, park and open-space level of service guidelines in 1983. The book was published by the National Recreation and Parks Association (NRPA), and for decades was considered the gold standard for determining the minimum desired acreage of outdoor recreation lands at the local and regional level. This book featured a relatively simple classification system for parks, and provided recommended acreages for parks on a population-ratio basis—so many acres per 1,000 people residing in a community.

Here are the most basic level-of-service guidelines, as they were published in 1983:

- **Mini-Park:** Has a service area with less than a quarter-mile radius, and approximately a quarter- to half-acre per 1,000 people.
- **Neighborhood Park:** Has a service area between a quarter-mile and half-mile radius, with population up to 5,000. Has 15-plus acres, equaling 1.0 to 2.0 acres per 1,000 people.

- **Community Park:** Has a service area with a 1- to 2-mile radius (would normally include several neighborhoods), and is 25-plus acres, which equals 5.0 to 8.0 acres per 1,000 people.
- **Regional/Metropolitan Park:** Has a service area of one hour's driving time (would normally include several communities), and is 200-plus acres, which equals 5.0 to 10.0 acres per 1,000 people.
- **Regional Park Preserve:** Has a service area of one hour's driving time (would normally include several communities), and is 1,000-plus acres. A total of 80% of this land would be reserved for natural resource management and conservation, and 20% would be reserved for recreational development. The number of acres per 1,000 people for a regional park preserve would vary widely depending on the property available.
- **Linear Park, Special-Use Area, or Conservancy Area:** No applicable guidelines were set in the document.

Over the next 20 years or so, these guidelines were widely accepted, but even the NRPA noted that the guidelines were meant to be flexible benchmarks, not an absolute number. Anyone who has tried on a one-size-fits-all T-shirt knows that "fits all" isn't always true. Academics and park professionals started try-

ing to create a new method of determining how much park and open-space land a given community might need, taking unique local priorities into account. A more locally based and flexible means of determining a minimum amount of parks and recreation land or facilities began to emerge in the mid-1990s. Level of Service (LOS) is a process of strategic planning that takes into account the unique aspects of individual communities. LOS also measures demand for recreation opportunities, current parks and recreation resources, and the needs and preferences of community residents. Indiana has used the 1983 NRPA guidelines as a benchmark since they were first published, but has created its own LOS guidelines for park and recreation open space.

INDIANA'S LOS GUIDELINES FOR PARKS, RECREATION AND OPEN SPACE

To simplify processing of the facilities inventory data, Indiana divides the current supply of recreation acreage into three categories: Local, State/federal and Total (statewide):

- **Local (County, Township, City or Town) recreation acres:** Land owned by municipal, township and county governments, as well as land privately owned but open for public use.



- **State/federal recreation acres:** Land owned mostly by State or federal governments, and does include some non-profit sites (such as those owned by Land Trusts) open for public recreational use.
- **Total (Statewide) recreation acres:** Total of all statewide public recreation land that is owned by all the entities in the other two categories.

The State of Indiana took the above categories and created LOS guidelines for publicly-owned parks, recreation and open space for all Hoosiers. Indiana's guidelines for outdoor recreation in terms of acres per 1,000 people are:

- **Local LOS:** 20 acres per 1,000 people (.02 acres per person).
- **State/Fed LOS:** 35 acres per 1,000 people (.035 acres per person).
- **Total (Statewide) LOS:** 55 acres per 1,000 people (.055 acres per person).

Because the Indiana SCORP is a document with a focus on statewide, public-owned parks and recreation, these guidelines are on a different scale than the NRPA guidelines mentioned earlier. Indiana's parks, recreation and open-space LOS guidelines are set according to the government level owner/operator of public recreation property (such as local, State/federal or total/statewide levels), instead of by types or sizes of park property. All acreages discussed in the SCORP are based on publicly owned or accessed lands. The SCORP excludes all schools. This is because many schools do not allow public access to their outdoor facilities; therefore, the DNR has no means to verify true public access to all school properties statewide. Private lands not open for public use are also excluded. Tables are included in this chapter that examine the supply of Local, State/federal and Total/statewide owned outdoor-recreation acres, organized and tallied by county and by region. The tables also look at current population (and population growth in the Critical Counties), as well as the best available inventory of public outdoor recreation acres available within each county and region.

LOCAL OUTDOOR RECREATION ACRES LISTED BY COUNTY AND BY REGION: MUNICIPAL, TOWNSHIP, COUNTY, AND PRIVATELY OWNED BUT OPEN FOR PUBLIC USE

As previously mentioned, Indiana uses an LOS guideline (20 acres of locally owned and operated public outdoor recreation acres per 1,000 people) to determine which local government entities have an adequate supply of acreage or a deficit of small-scale, local-level parks.

Local (owned by a county, township, city, or town) Acres by County

The first data tables in this SCORP provide data on local outdoor recreation acres, tallied by county, to illustrate those counties that may need more assistance in improving their supply of locally owned and managed public outdoor recreation acreage. In the "Difference" column, a bracketed number in red print (X), indicates a negative or deficient number of acres of OR land.

Let's look at the Indiana Local Acres by County Table listing for Adams County as an example (Figure 3.1). From the left-hand column:

- County ID number (1).
- County Name (Adams).
- 2018 U.S. Census County Population Estimate (35,636 residents).
- DNR-recommended LOS Local Acres of outdoor recreation land (.02 acre * 35,636 people = 712.72 acres recommended).
- Current inventory of local acres of OR land (356.97 acres).
- Recommended number of OR acres—current number of local OR acres = "Difference" (356.97 local acres - 712.72 recommended acres = 355.75-acre deficit of OR acres in Adams County).

Of 92 counties in the state, 60% (55 counties) are deficient in local-level public outdoor-recreation acres.

Figure 3.1 **Local Acres Example**

County Number	County Name	2018 Population (Estimated)	Recommended Acres; Local 20a/1000 People	Sum Of County Local Acres	Difference
1	Adams	35,636	712.72	356.97	(355.75)

Table 3.1 **LOCAL ACRES BY COUNTY**

County Number	County Name	2018 Population (Estimated)	Recommended Acres; Local 20a/1000	Sum Of County Local Acres	Difference
1	Adams	35,636	712.72	356.97	(355.75)
2	Allen	375,351	7,507.02	5,853.33	(1,653.69)
3	Bartholomew	82,753	1,655.06	1,245.73	(409.33)
4	Benton	8,653	173.06	70.50	(102.56)
5	Blackford	11,930	238.60	104.35	(134.25)
6	Boone	66,999	1,339.98	607.97	(732.01)
7	Brown	15,234	304.68	1,569.54	1,264.86
8	Carroll	20,127	402.54	304.08	(98.46)
9	Cass	37,955	759.10	1,188.26	429.16
10	Clark	117,360	2,347.20	1,121.21	(1,225.99)
11	Clay	26,170	523.40	215.85	(307.55)
12	Clinton	32,250	645.00	192.70	(452.30)
13	Crawford	10,558	211.16	33.00	(178.16)
14	Daviess	33,147	662.94	2,494.12	1,831.18
15	Dearborn	49,568	991.36	1,576.53	585.17
16	Decatur	26,794	535.88	217.27	(318.61)
17	Dekalb	43,226	864.52	462.99	(401.53)
18	Delaware	114,772	2,295.44	2,673.74	378.30
19	Dubois	42,565	851.30	1,624.01	772.71
20	Elkhart	205,560	4,111.20	2,687.54	(1,423.66)
21	Fayette	23,047	460.94	909.40	448.46
22	Floyd	77,781	1,555.62	858.25	(697.37)
23	Fountain	16,351	327.02	358.25	31.23
24	Franklin	22,736	454.72	256.00	(198.72)
25	Fulton	20,092	401.84	470.30	68.46
26	Gibson	33,452	669.04	1,354.00	684.96
27	Grant	65,936	1,318.72	349.40	(969.32)
28	Greene	32,006	640.12	537.00	(103.12)
29	Hamilton	330,086	6,601.72	4,178.79	(2,422.93)
30	Hancock	76,351	1,527.02	509.65	(1,017.37)
31	Harrison	40,350	807.00	2,036.43	1,229.43
32	Hendricks	167,009	3,340.18	1,554.72	(1,785.46)
33	Henry	48,271	965.42	1,671.37	705.95
34	Howard	82,366	1,647.32	1,079.10	(568.22)
35	Huntington	36,240	724.80	356.13	(368.67)
36	Jackson	44,111	882.22	251.70	(630.52)
37	Jasper	33,370	667.40	880.49	213.09
38	Jay	20,764	415.28	331.10	(84.18)
39	Jefferson	32,208	644.16	283.50	(360.66)
40	Jennings	27,611	552.22	694.00	141.78
41	Johnson	156,225	3,124.50	1,361.38	(1,763.12)
42	Knox	36,895	737.90	680.25	(57.65)
43	Kosciusko	79,344	1,586.88	636.04	(950.84)
44	LaGrange	39,330	786.60	1,164.30	377.70
45	Lake	484,411	9,688.22	10,862.40	1,174.18
46	LaPorte	110,007	2,200.14	2,735.22	535.08
47	Lawrence	45,668	913.36	863.04	(50.32)

County Number	County Name	2,018 Population (Estimated)	Recommended Acres; Local 20a/1,000	Sum Of County Local Acres	Difference
48	Madison	129,641	2,592.82	1,225.30	(1,367.52)
49	Marion	954,670	19,093.40	11,806.33	(7,287.07)
50	Marshall	46,248	924.96	731.79	(193.17)
51	Martin	10,217	204.34	259.60	55.26
52	Miami	35,567	711.34	573.25	(138.09)
53	Monroe	146,917	2,938.34	5,704.43	2,766.09
54	Montgomery	38,346	766.92	979.97	213.05
55	Morgan	70,116	1,402.32	529.83	(872.49)
56	Newton	14,011	280.22	7,796.00	7,515.78
57	Noble	47,532	950.64	2,559.45	1,608.81
58	Ohio	5,844	116.88	48.00	(68.88)
59	Orange	19,489	389.78	437.00	47.22
60	Owen	20,845	416.90	69.90	(347.00)
61	Parke	16,927	338.54	492.60	154.06
62	Perry	19,102	382.04	315.00	(67.04)
63	Pike	12,410	248.20	1,003.28	755.08
64	Porter	169,594	3,391.88	2,993.84	(398.04)
65	Posey	25,540	510.80	249.81	(260.99)
66	Pulaski	12,469	249.38	94.44	(154.94)
67	Putnam	37,779	755.58	1,529.80	774.22
68	Randolph	24,851	497.02	543.87	46.85
69	Ripley	28,523	570.46	615.82	45.36
70	Rush	16,663	333.26	140.49	(192.77)
71	St. Joseph	270,771	5,415.42	3,431.86	(1,983.56)
72	Scott	23,878	477.56	164.20	(313.36)
73	Shelby	44,593	891.86	391.25	(500.61)
74	Spencer	20,327	406.54	406.10	(0.44)
75	Starke	22,935	458.70	488.32	29.62
76	Steuben	34,586	691.72	1,255.55	563.83
77	Sullivan	20,690	413.80	2,608.00	2,194.20
78	Switzerland	10,717	214.34	71.61	(142.73)
79	Tippecanoe	193,048	3,860.96	3,302.20	(558.76)
80	Tipton	15,128	302.56	181.57	(120.99)
81	Union	7,037	140.74	208.00	67.26
82	Vanderburgh	180,974	3,619.48	2,273.13	(1,346.35)
83	Vermillion	15,479	309.58	170.26	(139.32)
84	Vigo	107,386	2,147.72	2,352.69	204.97
85	Wabash	31,280	625.60	549.89	(75.71)
86	Warren	8,263	165.26	279.00	113.74
87	Warrick	62,567	1,251.34	1,901.42	650.08
88	Washington	27,943	558.86	594.42	35.56
89	Wayne	65,936	1,318.72	2,287.33	968.61
90	Wells	28,206	564.12	396.16	(167.96)
91	White	24,133	482.66	198.24	(284.42)
92	Whitley	34,074	681.48	381.19	(300.29)
Statewide Local Acres		6,691,878	133,837.56	126,414.08	(7,423.48)

Figure 3.2

LOCAL OUTDOOR RECREATION ACRES, BY COUNTY



Local (owned by a county, township, city, or town) Acres by Region

A word about “Regions” in this document: Previous authors of the Indiana SCORP, going back decades, have used a number of different ways to divide the state into manageable regions or groups of counties. These regions would share some aspects that gave certain advantages to analyzing them in aggregate. The past several SCORPs have used a regional map first obtained from the Indiana Association of Regional Councils (IARC), under the former State of Indiana Department of Planning in the early 1970s. This map divided Indiana into 18 regions, based on groups of counties that had officially banded together in development districts or planning commissions for shared economic development, coordination of urban and regional planning, and intergovernmental cooperation. Since created, the IARC’s member county groups have changed many times, and by

2010 many of the new regional councils bore little resemblance to their old counterparts. This made it time for the DNR to adopt the latest version of IARC’s regions. The latest (as of August 2017) map of the IARC’s member councils shows 15 different regional councils (all with different names), listed in alphabetical order and numbered 1-15. (The old list had several “subdivided” regions, such as 3A and 3B). The current IARC map also makes it clear that in the past several decades, a number of counties in the center of the state have opted not to participate in any regional planning councils; these counties will be numbered as region 16 on the DNR maps in this SCORP, and will be listed as unaffiliated.

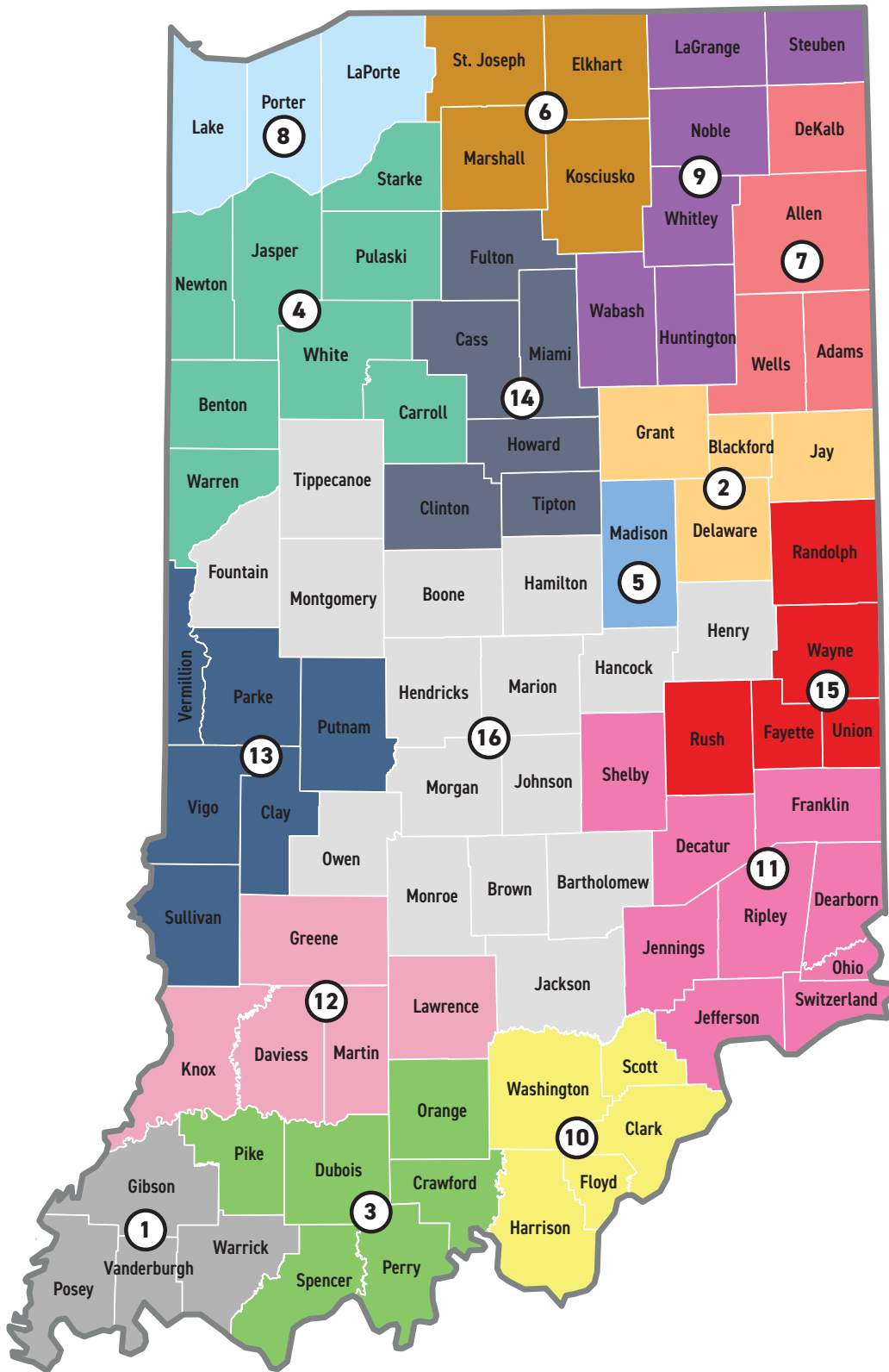
Out of the 15 IARC member regions and 16th unaffiliated group of counties, nine regions (56%) are deficient in local-level public outdoor-recreation acreage.

Table 3.2 **Local Acres by Region**

Regions	2014 Population (Estimated)	2018 Population	Percent of Population Change	Recommended Acres; Local 20a/1000	Sum Of Local Acres	Difference
1	302,454	302,533	0.03	6,050.66	5,778.36	(272.30)
2	198,044	192,638	(2.73)	3,852.76	3,127.49	(725.27)
3	125,505	124,451	(0.84)	2,489.02	3,818.39	1,329.37
4	145,100	143,961	(0.78)	2,879.22	10,111.07	7,231.85
5	130,069	129,641	(0.33)	2,592.82	1,225.30	(1,367.52)
6	595,260	601,923	1.12	12,038.46	7,487.23	(4,551.23)
7	470,954	482,419	2.43	9,648.38	7,069.45	(2,578.93)
8	768,748	764,012	(0.62)	15,280.24	16,591.46	1,311.22
9	222,723	223,042	0.14	4,460.84	6,266.51	1,805.67
10	281,330	287,312	2.13	5,746.24	4,774.51	(971.73)
11	249,021	248,594	(0.17)	4,971.88	4,153.98	(817.90)
12	159,300	157,933	(0.86)	3,158.66	4,834.01	1,675.35
13	226,331	224,431	(0.84)	4,488.62	7,369.2	2,880.58
14	226,065	223,358	(1.20)	4,467.16	3,685.18	(781.98)
15	140,661	137,534	(2.22)	2,750.68	4,089.09	1,338.41
16	2,355,290	2,448,096	3.94	48,961.92	36,032.86	(12,929.06)
Totals:	6,596,855	6,691,878	1.44	133,837.56	126,414.08	(7,423.48)

Figure 3.3

INDIANA ASSOCIATION OF REGIONAL COUNCILS PLANNING REGIONS



1. Economic Development Coalition of Southwest Indiana

Carol Hagedorn, Vice President
318 Main Street, Suite 400, Evansville, IN 47708
P: 812.423.2020 F: 812.423.2080
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2. East Central Indiana Regional Planning District

Bill Walters, Executive Director
1208 White River Blvd, Ste 127, Muncie, IN 47303
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3. Indiana 15 Regional Planning Commission

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www.ind15rpc.org

4. Kankakee - Iroquois Regional Planning Commission

Edwin Buswell, Executive Director
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5. Madison County Council of Governments

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6. Michiana Area Council of Governments

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South Bend, IN 46601
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jturnwald@macog.com
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7. Northeastern Indiana Regional Coordinating Council

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Dan.avery@co.allen.in.us
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8. Northwestern Indiana Regional Planning Commission

Ty Warner, Executive Director
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9. Region III-A Economic Development District & Regional Planning Commission

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10. River Hills Economic Development District & Regional Planning Commission

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11. Southeastern Indiana Regional Planning Commission

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12. Southern Indiana Development Commission

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13. West Central Indiana Economic Development District

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14. North Central Indiana Regional Planning Council

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15. Eastern Indiana Regional Planning Commission

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Total (statewide) Local Acres

Just because local acres of public outdoor recreation land are deficient by both county and region, it does not mean that the total (statewide) level is deficient. Indiana has grown 1.44% in population, to 6,691,878 residents, according to the population projections published by the U.S. Census in 2018. Multiplying the current population by the recommended LOS of 20 acres of public outdoor recreation land per 1,000 people (.02 acre per person) equals 133,837.56 acres. Subtracting the current supply of local acres (126,414.09 acres) equals a statewide deficit of local public outdoor recreation land of 7,423.48 acres.

Why Are There Deficits in Locally Owned Public Outdoor Recreation Acres?

There are many reasons why such a high percentage of counties and regions in the state have a deficit in the number of local public outdoor recreation acres. A few possible explanations are:

- Nearby State- or federal-owned properties may provide for significant public recreation needs, causing local governments to decide that they may not have to supply as many local parks.
- A lack of community resources and support to acquire, develop and/or maintain local outdoor recreation properties.
- Communities in that county/region may lack the organization or structure—such as park boards and/or park departments—to operate new or existing parks.
- The communities in that county/region may not have enough advocacy among underserved users and user groups to motivate local government leaders to acquire and/or develop sufficient local park land.
- A need for adequate funding for acquisition, development, personnel, operations and maintenance of existing or new public outdoor recreation properties.

STATE & FEDERAL OUTDOOR RECREATION ACRES LISTED BY COUNTY AND REGION: STATE AND FEDERAL PUBLIC OUTDOOR RECREATION LAND

The Division of Outdoor Recreation examines the supply of State/federal public outdoor recreation acres (public outdoor recreation acres mostly owned by the State or federal government, or by certain non-profits) at the same geographic scale as it does local public outdoor recreation acres: by county, region and total (statewide).

State/Federal (State and Federal-owned) Acres by County

The third set of data tables in this SCORP covers State and federal outdoor recreation acres by county, illustrating those counties that may need more assistance in improving their supply of State and federal public outdoor recreation acreage. In the “Difference” column, a bracketed number in red print (X), indicates a negative or deficient number of acres of outdoor recreation land.

Let’s look at the Indiana State/Federal Acres by County Table listing for Adams County as an example (Figure 3.2). From the left-hand column:

- County ID number (1).
- County Name (Adams).
- 2018 U.S. Census County Population Estimate (35,636 residents).
- DNR-recommended LOS Local Acres of Outdoor-Recreation Land (.035 acre* 35,636 people = 1,247.26 acres recommended).
- Current inventory of State/federal acres of outdoor recreation land (570.42 acres)
- Recommended number of outdoor recreation acres—current number of State/federal outdoor recreation acres = “Difference” (570.42 State/Fed Acres - 1,247.26 Recommended Acres = 676.84 acre deficit of OR acres in Adams County)

Figure 3.4 **State/Fed Acres Example**

County Number	County Name	2018 Population (Estimated)	Recommended Acres; State/Fed 35a/1,000 People	Sum Of County State/Fed Acres	Difference
1	Adams	35,636	1,247.26	570.42	(676.84)

Table 3.3 **STATE & FEDERAL ACRES BY COUNTY**

County Number	County Name	2018 Population (Estimated)	Recommended Acres; State/Fed 35a/1000	Sum Of County State/Fed Acres	Difference
1	Adams	35,636	1,247.26	570.42	(676.84)
2	Allen	375,351	13,137.29	1,643.61	(11,493.68)
3	Bartholomew	82,753	2,896.36	1,345.20	(1,551.16)
4	Benton	8,653	302.86	2,268.00	1,965.15
5	Blackford	11,930	417.55	0.00	(417.55)
6	Boone	66,999	2,344.97	64.81	(2,280.16)
7	Brown	15,234	533.19	68,372.00	67,838.81
8	Carroll	20,127	704.45	388.50	(315.95)
9	Cass	37,955	1,328.43	48.10	(1,280.33)
10	Clark	117,360	4,107.60	20,028.81	15,921.21
11	Clay	26,170	915.95	2,496.00	1,580.05
12	Clinton	32,250	1,128.75	29.00	(1,099.75)
13	Crawford	10,558	369.53	39,082.61	38,713.08
14	Daviess	33,147	1,160.15	8,845.33	7,685.19
15	Dearborn	49,568	1,734.88	47.20	(1,687.68)
16	Decatur	26,794	937.79	137.08	(800.71)
17	Dekalb	43,226	1,512.91	214.40	(1,298.51)
18	Delaware	114,772	4,017.02	0.00	(4,017.02)
19	Dubois	42,565	1,489.78	11,766.38	10,276.61
20	Elkhart	205,560	7,194.60	444.95	(6,749.65)
21	Fayette	23,047	806.65	108.00	(698.65)
22	Floyd	77,781	2,722.34	2,139.00	(583.34)
23	Fountain	16,351	572.29	580.86	8.57
24	Franklin	22,736	795.76	9,640.96	8,845.20
25	Fulton	20,092	703.22	789.94	86.72
26	Gibson	33,452	1,170.82	4,638.66	3,467.84
27	Grant	65,936	2,307.76	1,422.00	(885.76)
28	Greene	32,006	1,120.21	17,078.05	15,957.84
29	Hamilton	330,086	11,553.01	1.00	(11,552.01)
30	Hancock	76,351	2,672.29	0.00	(2,672.29)
31	Harrison	40,350	1,412.25	17,111.33	15,699.08
32	Hendricks	167,009	5,845.32	0.00	(5,845.32)
33	Henry	48,271	1,689.49	3,808.46	2,118.98
34	Howard	82,366	2,882.81	80.00	(2,802.81)
35	Huntington	36,240	1,268.40	15,519.00	14,250.60
36	Jackson	44,111	1,543.89	38,335.47	36,791.59
37	Jasper	33,370	1,167.95	5,905.10	4,737.15
38	Jay	20,764	726.74	614.28	(112.46)
39	Jefferson	32,208	1,127.28	19,113.52	17,986.24
40	Jennings	27,611	966.39	18,261.86	17,295.48
41	Johnson	156,225	5,467.88	4,649.00	(818.88)
42	Knox	36,895	1,291.33	418.52	(872.81)
43	Kosciusko	79,344	2,777.04	4,448.59	1,671.55
44	LaGrange	39,330	1,376.55	9,870.33	8,493.78
45	Lake	484,411	16,954.39	5,376.47	(11,577.91)
46	LaPorte	110,007	3,850.25	10,431.47	6,581.22
47	Lawrence	45,668	1,598.38	17,356.32	15,757.94

County Number	County Name	2018 Population (Estimated)	Recommended Acres; State/Fed 35a/1000	Sum Of County State/Fed Acres	Difference
48	Madison	129,641	4,537.44	285.00	(4,252.44)
49	Marion	954,670	33,413.45	2,279.88	(31,133.57)
50	Marshall	46,248	1,618.68	1,119.85	(498.83)
51	Martin	10,217	357.60	18,056.41	17,698.82
52	Miami	35,567	1,244.85	1,410.22	165.38
53	Monroe	146,917	5,142.10	40,957.20	35,815.11
54	Montgomery	38,346	1,342.11	1,752.77	410.66
55	Morgan	70,116	2,454.06	6,743.36	4,289.30
56	Newton	14,011	490.39	14,526.69	14,036.31
57	Noble	47,532	1,663.62	5,986.34	4,322.72
58	Ohio	5,844	204.54	22.29	(182.25)
59	Orange	19,489	682.12	47,979.00	47,296.89
60	Owen	20,845	729.58	12,546.87	11,817.30
61	Parke	16,927	592.45	8,165.07	7,572.63
62	Perry	19,102	668.57	62,920.46	62,251.89
63	Pike	12,410	434.35	16,492.79	16,058.44
64	Porter	169,594	5,935.79	13,253.38	7,317.59
65	Posey	25,540	893.90	13,488.92	12,595.02
66	Pulaski	12,469	436.42	10,524.17	10,087.76
67	Putnam	37,779	1,322.27	7,793.65	6,471.39
68	Randolph	24,851	869.79	681.72	(188.07)
69	Ripley	28,523	998.31	33,369.00	32,370.70
70	Rush	16,663	583.21	0.00	(583.21)
71	St. Joseph	270,771	9,476.99	36,816.47	27,339.49
72	Scott	23,878	835.73	10,683.20	9,847.47
73	Shelby	44,593	1,560.76	2.00	(1,558.76)
74	Spencer	20,327	711.45	3,728.00	3,016.56
75	Starke	22,935	802.73	3,825.52	3,022.80
76	Steuben	34,586	1,210.51	6,876.93	5,666.42
77	Sullivan	20,690	724.15	13,648.41	12,924.26
78	Switzerland	10,717	375.10	1,307.39	932.30
79	Tippecanoe	193,048	6,756.68	2,469.56	(4,287.12)
80	Tipton	15,128	529.48	37.00	(492.48)
81	Union	7,037	246.30	9,328.54	9,082.25
82	Vanderburgh	180,974	6,334.09	503.00	(5,831.09)
83	Vermillion	15,479	541.77	5,464.02	4,922.26
84	Vigo	107,386	3,758.51	775.23	(2,983.28)
85	Wabash	31,280	1,094.80	15,349.55	14,254.75
86	Warren	8,263	289.21	147.00	(142.21)
87	Warrick	62,567	2,189.85	7,914.10	5,724.26
88	Washington	27,943	978.01	18,039.96	17,061.96
89	Wayne	65,936	2,307.76	24.70	(2,283.06)
90	Wells	28,206	987.21	2,667.70	1,680.49
91	White	24,133	844.66	594.79	(249.87)
92	Whitley	34,074	1,192.59	660.07	(532.52)
Statewide State/Fed Acres		6,691,878	234,215.73	826,708.77	592,493.04

Table 3.4 State & Federal Acres by Region

Regions	2014 Population (Estimated)	2018 Population	Percent of Population Change	Recommended Acres; State/Fed 35a/1000	Sum Of State/Fed Acres	Difference
1	302,454	302533	0.03	10,588.66	26,544.68	15,956.03
2	198,044	192638	(2.73)	6,742.33	1,422	(5,320.33)
3	125,505	124451	(0.84)	4,355.79	181,969.24	177,613.46
4	145,100	143961	(0.78)	5,038.64	38,179.77	33,141.14
5	130,069	129641	(0.33)	4,537.44	285	(4,252.44)
6	595,260	601923	1.12	21,067.31	42,829.86	21,762.56
7	470,954	482419	2.43	16,884.67	5,096.13	(11,788.54)
8	768,748	764012	(0.62)	26,740.42	29,061.32	2,320.90
9	222,723	223042	0.14	7,806.47	54,262.22	46,455.75
10	281,330	287312	2.13	10,055.92	68,002.3	57,946.38
11	249,021	248594	(0.17)	8,700.79	81,901.3	73,200.51
12	159,300	157933	(0.86)	5,527.66	61,754.63	56,226.98
13	226,331	224431	(0.84)	7,855.09	38,342.38	30,487.30
14	226,065	223358	(1.20)	7,817.53	2,394.26	(5,423.27)
15	140,661	137534	(2.22)	4,813.69	10,142.96	5,329.27
16	2,355,290	2,448,096	3.94	85,683.36	184,520.72	98,837.36
Totals:	6,596,855	6,691,878	1.44	234,215.73	826,708.77	592,493.04



State/Federal Acres (State and Federal owned) by Region

Four regions in Indiana (25 %) do not meet the DNR recommendations of 35 acres of State/federal outdoor recreation acres per 1,000 people. The service-area gaps mentioned at the county level of State/federal acres are not as pronounced when viewed at the region level. The scattered nature of State/federal outdoor recreation properties simply doesn't show up as well when viewed at this larger geographic scale. It should be noted that the majority of the regions that are deficient in State/federal acres of public outdoor recreation land are either in the central or northern portions of the state. The large number of State and federal-owned public outdoor recreation properties in the southern portion of the state, such as Hoosier National Forest and Morgan-Monroe State Forest, help those areas meet the DNR State/federal LOS recommendations for public OR land when viewed by region.

TOTAL OUTDOOR RECREATION ACRES LISTED BY COUNTY AND REGION: ALL PUBLIC OUTDOOR RECREATION LANDS CURRENTLY RECORDED IN THE DNR FACILITIES INVENTORY

DNR Outdoor Recreation also examines the supply of public outdoor recreation lands in Indiana by tallying the local and State/federal data and looking at them as a total. The total (statewide) LOS for Indiana is created by adding the other two LOS figures: 20 acres/1,000 and 35 acres/1,000, for a total LOS of 55 acres/1,000 people. These totals of all recorded public outdoor recreation acreage will be listed under county-, region- and statewide-level totals in the same way the local and State/federal data were. This provides a snapshot of all public outdoor recreation lands as recorded in the DNR facilities inventory database.

Total (statewide) Acres by County

A total of 53 counties in Indiana meet DNR's recommended total LOS of 55 acres of public OR land per 1,000 people. That is one more county meeting the Total LOS (when tallied by county) than during the last SCORP cycle. The 39 counties deficient in to-

tal outdoor recreation acreage is the same number as recorded in the current State/federal acreage by county tables. Given the size of many of the State/federal parcels, as noted earlier in the text, the State/federal property effect carries over into the total data.

Of the 53 counties that meet the total LOS recommendation, 28 counties (28% of all Indiana counties) actually meet all three LOS recommendations—Local, State/federal and Total (statewide):

- Brown
- Daviess
- Dubois
- Fountain
- Fulton
- Gibson
- Harrison
- Henry
- Jasper
- Jennings
- LaGrange
- LaPorte
- Martin
- Monroe
- Montgomery
- Newton
- Noble
- Orange
- Parke
- Pike
- Putnam
- Ripley
- Starke
- Steuben
- Sullivan
- Union
- Warrick
- Washington

Of the 39 counties that do not meet the total LOS recommendation, 30 counties (33% of all Indiana counties) are deficient in all three LOS recommendations—Local, State/federal and Total (statewide):

- Adams
- Allen
- Bartholomew
- Blackford
- Boone
- Carroll
- Clinton
- Decatur
- Dekalb
- Elkhart
- Floyd
- Grant
- Hamilton
- Hancock
- Hendricks
- Howard
- Jay
- Johnson
- Knox
- Madison
- Marion
- Marshall
- Ohio
- Rush
- Shelby
- Tippecanoe
- Tipton
- Vanderburgh
- White
- Whitley

Figure 3.6

TOTAL RECREATION ACRES, BY COUNTY





Table 3.5 **TOTAL ACRES BY COUNTY**

County Number	County Name	2018 Population (Estimated)	Recommended Acres; Total 35a/1000	Sum Of County Total Acres	Difference
1	Adams	35,636	1,959.98	927.39	(1,032.59)
2	Allen	375,351	20,644.31	7,496.94	(13,147.37)
3	Bartholomew	82,753	4,551.42	2,590.93	(1,960.49)
4	Benton	8,653	475.92	2,338.5	1,862.59
5	Blackford	11,930	656.15	104.35	(551.80)
6	Boone	66,999	3,684.95	672.78	(3,012.17)
7	Brown	15,234	837.87	69,941.54	69,103.67
8	Carroll	20,127	1,106.99	692.58	(414.40)
9	Cass	37,955	2,087.53	1,236.36	(851.17)
10	Clark	117,360	6,454.80	21,150.02	14,695.22
11	Clay	26,170	1,439.35	2,711.85	1,272.50
12	Clinton	32,250	1,773.75	221.7	(1,552.05)
13	Crawford	10,558	580.69	39,115.61	38,534.92
14	Daviess	33,147	1,823.09	11,339.45	9,516.37
15	Dearborn	49,568	2,726.24	1,623.73	(1,102.51)
16	Decatur	26,794	1,473.67	354.35	(1,119.32)
17	Dekalb	43,226	2,377.43	677.39	(1,700.04)
18	Delaware	114,772	6,312.46	2,673.74	(3,638.72)
19	Dubois	42,565	2,341.08	13,390.39	11,049.32
20	Elkhart	205,560	11,305.80	3,132.49	(8,173.31)
21	Fayette	23,047	1,267.59	1,017.4	(250.19)
22	Floyd	77,781	4,277.96	2,997.25	(1,280.71)
23	Fountain	16,351	899.31	939.11	39.81
24	Franklin	22,736	1,250.48	9,896.96	8,646.48
25	Fulton	20,092	1,105.06	1,260.24	155.18
26	Gibson	33,452	1,839.86	5,992.66	4,152.80
27	Grant	65,936	3,626.48	1,771.4	(1,855.08)
28	Greene	32,006	1,760.33	17,615.05	15,854.72
29	Hamilton	330,086	18,154.73	4,179.79	(13,974.94)
30	Hancock	76,351	4,199.31	509.65	(3,689.66)
31	Harrison	40,350	2,219.25	19,147.76	16,928.51
32	Hendricks	167,009	9,185.50	1,554.72	(7,630.78)
33	Henry	48,271	2,654.91	5,479.83	2,824.93
34	Howard	82,366	4,530.13	1,159.1	(3,371.03)
35	Huntington	36,240	1,993.20	15,875.13	13,881.93
36	Jackson	44,111	2,426.11	38,587.17	36,161.07
37	Jasper	33,370	1,835.35	6,785.59	4,950.24
38	Jay	20,764	1,142.02	945.38	(196.64)
39	Jefferson	32,208	1,771.44	19,397.02	17,625.58
40	Jennings	27,611	1,518.61	18,955.86	17,437.26
41	Johnson	156,225	8,592.38	6,010.38	(2,582.00)
42	Knox	36,895	2,029.23	1,098.77	(930.46)
43	Kosciusko	79,344	4,363.92	5,084.63	720.71
44	LaGrange	39,330	2,163.15	11,034.63	8,871.48
45	Lake	484,411	26,642.61	16,238.87	(10,403.73)
46	LaPorte	110,007	6,050.39	13,166.68	7,116.30
47	Lawrence	45,668	2,511.74	18,219.36	15,707.62

County Number	County Name	2018 Population (Estimated)	Recommended Acres; Total 35a/1000	Sum Of County Total Acres	Difference
48	Madison	129,641	7,130.26	1,510.30	(5,619.96)
49	Marion	954,670	52,506.85	14,086.21	(38,420.64)
50	Marshall	46,248	2,543.64	1,851.64	(692.00)
51	Martin	10,217	561.94	18,316.01	17,754.08
52	Miami	35,567	1,956.19	1,983.47	27.29
53	Monroe	146,917	8,080.44	46,661.63	38,581.20
54	Montgomery	38,346	2,109.03	2,732.74	623.71
55	Morgan	70,116	3,856.38	7,273.19	3,416.81
56	Newton	14,011	770.61	22,322.69	21,552.09
57	Noble	47,532	2,614.26	8,545.79	5,931.53
58	Ohio	5,844	321.42	70.29	(251.13)
59	Orange	19,489	1,071.90	48416	47,344.11
60	Owen	20,845	1,146.48	12,616.77	11,470.30
61	Parke	16,927	930.99	8,657.67	7,726.69
62	Perry	19,102	1,050.61	63,235.46	62,184.85
63	Pike	12,410	682.55	17,496.07	16,813.52
64	Porter	169,594	9,327.67	16,247.22	6,919.55
65	Posey	25,540	1,404.70	13,738.73	12,334.03
66	Pulaski	12,469	685.80	10,618.61	9,932.82
67	Putnam	37,779	2,077.85	9,323.45	7,245.61
68	Randolph	24,851	1,366.81	1,225.59	(141.22)
69	Ripley	28,523	1,568.77	33,984.82	32,416.06
70	Rush	16,663	916.47	140.49	(775.98)
71	St. Joseph	270,771	14,892.41	40,248.33	25,355.93
72	Scott	23,878	1,313.29	10,847.4	9,534.11
73	Shelby	44,593	2,452.62	393.25	(2,059.37)
74	Spencer	20,327	1,117.99	4,134.1	3,016.12
75	Starke	22,935	1,261.43	4,313.84	3,052.42
76	Steuben	34,586	1,902.23	8,132.48	6,230.25
77	Sullivan	20,690	1,137.95	16,256.41	15,118.46
78	Switzerland	10,717	589.44	1,379	789.57
79	Tippecanoe	193,048	10,617.64	5,771.76	(4,845.88)
80	Tipton	15,128	832.04	218.57	(613.47)
81	Union	7,037	387.04	9,536.54	9,149.51
82	Vanderburgh	180,974	9,953.57	2,776.13	(7,177.44)
83	Vermillion	15,479	851.35	5,634.28	4,782.94
84	Vigo	107,386	5,906.23	3,127.92	(2,778.31)
85	Wabash	31,280	1,720.40	15,899.44	14,179.04
86	Warren	8,263	454.47	426	(28.46)
87	Warrick	62,567	3,441.19	9,815.52	6,374.33
88	Washington	27,943	1,536.87	18,634.38	17,097.52
89	Wayne	65,936	3,626.48	2,312.03	(1,314.45)
90	Wells	28,206	1,551.33	3,063.86	1,512.53
91	White	24,133	1,327.32	793.03	(534.29)
92	Whitley	34,074	1,874.07	1,041.26	(832.81)
Statewide Total Acres		6,691,878	368,053.29	953,122.85	585,069.56

Total (statewide) Acres by Region

Twelve regions in Indiana meet DNR's recommended total LOS of 55 acres of public outdoor recreation land per 1,000 people. This statistic rose by one region since the last SCORP cycle. The four regions deficient in total outdoor recreation acreage (25% of all Indiana regions) are the same as recorded in the current State/federal acreage tables, tallied by region. Given the size of many of the State/federal parcels, as noted earlier, the State/federal property effect carries over into the total data.

Of the 12 regions that meet the total LOS recommendation, seven regions (44% of all Indiana regions) actually meet all three LOS recommendations—Local, State/federal and Total (statewide):

- Indiana 15 Regional Planning District (Region 3).
- Kankakee-Iroquois Regional Planning Commission (Region 4).
- Northwestern Indiana Regional Planning Commission (Region 8).

- Region III-A Economic Development District and Regional Planning Commission (Region 9).
- Southern Indiana Development Commission (Region 12).
- West-Central Indiana Economic Development District (Region 13).
- Eastern Indiana Regional Planning Commission (Region 15).

The four regions that do not meet the total LOS recommendation (25% of all Indiana regions) are actually deficient in all three LOS recommendations—Local, State/Fed and Total (Statewide):

- Energize-ECI Regional Planning District (Region 2).
- Madison County Council of Governments (Region 5).
- Northeastern Indiana Regional Coordinating Council (Region 7).
- North Central Indiana Regional Planning Council (Region 14).

Table 3.6 Total Acres by Region

Regions	2014 Population (Estimated)	2018 Population	Percent of Population Change	Recommended Acres; Total 55a/1000	Sum of Total Acres	Total Difference
1	302,454	302,533	0.03	16,639.32	32,323.04	15,683.72
2	198,044	192,638	(2.73)	10,595.09	4,549.49	(6,045.60)
3	125,505	124,451	(0.84)	6,844.81	185,787.63	178,942.83
4	145,100	143,961	(0.78)	7,917.86	48,290.84	40,372.99
5	130,069	129,641	(0.33)	7,130.26	1,510.30	(5,619.96)
6	595,260	601,923	1.12	33,105.77	50,317.09	17,211.33
7	470,954	482,419	2.43	26,533.05	12,165.58	(14,367.46)
8	768,748	764,012	(0.62)	42,020.66	45,652.78	3,632.12
9	222,723	223,042	0.14	12,267.31	60,528.73	48,261.42
10	281,330	287,312	8.42	15,802.16	72,776.81	56,974.65
11	249,021	248,594	(0.17)	13,672.67	86,055.28	72,382.61
12	159,300	157,933	(0.86)	8,686.32	66,588.64	57,902.32
13	226,331	224,431	(0.84)	12,343.71	45,711.58	33,367.88
14	226,065	223,358	(1.20)	12,284.69	6,079.44	(6,205.25)
15	140,661	137,534	(2.22)	7,564.37	14,232.05	6,667.68
16	2,355,290	2,448,096	3.94	134,645.28	220,553.58	85,908.30
Totals:	6,596,855	6,691,878	1.44	368,053.29	953,122.85	585,069.56

Total (statewide) Outdoor-Recreation Acres

As noted elsewhere in the SCORP, Indiana has grown 1.44% in population, to 6,691,878 residents, according to the population estimates published by the U.S. Census in 2018. Multiplying the current population by the recommended Total (statewide) LOS of 55 acres of public outdoor recreation land per 1,000 people (.055 acre per person), yields a total of 368,053.29 acres. Subtracting the Total (statewide) Recommended LOS acres (368,053.29) from the current supply of Total (statewide) public outdoor recreation acres (953,122.85) yields a statewide surplus of total public outdoor recreation land of 585,069.56 acres.

Conclusion of Total Outdoor Recreation Acres

Indiana now ranks 17th in the country in total population as of the 2018 U.S. Census population estimates. That ranking is one lower than in 2014, and two lower than in 2010. Indiana has gained population, but not as fast as some other states. The total state acreage of Indiana is 23,307,520. Of that total, 953,122.85 acres are designated for outdoor recreation. Indiana therefore has only 4.09% of its land area available for public outdoor recreation.

One observation that cannot be avoided is the continuing difference between counties and regions that have reported surpluses of public outdoor recreation land, and those that have deficits. There are still significant gaps between the haves and have-

nots for outdoor recreation acreage in Indiana. As noted earlier, the southern portion of the state tends to have more counties that meet the total LOS guidelines than the northern tier. And when population distribution and service areas are taken into account, these differences grow. It was noted in the last three SCORPs that there was an apparent inequity in the distribution of public outdoor recreation acreage statewide. That still has not significantly changed for this SCORP.

CRITICAL COUNTIES

The definition of “critical county” in Indiana has changed again for this SCORP. That is because the state’s population-growth rate has decreased since the last SCORP. A critical county is defined as:

- A county that does not have the recommended supply of outdoor-recreation acres of 55 acres per 1,000 population or greater.
- A population-growth rate higher than the 2014 to 2018 estimated Indiana statewide population growth rate of 1.44% (data obtained from the U.S. Census 2014 and 2018 population estimates).

14 counties meet the critical counties criteria:

- Adams
- Allen
- Bartholomew
- Boone
- DeKalb
- Elkhart
- Floyd
- Hamilton
- Hancock
- Hendricks
- Johnson
- Marion
- Tippecanoe
- Whitley

Table 3.7 Critical Counties Based On Total Acres

County Number	County Name	2018 Population	Recommended Acres; Total 55a/1000	Sum of County Total Acres	Difference
1	Adams	35,636	1959.98	927.39	(1032.59)
2	Allen	375,351	20644.31	7496.94	(13147.37)
3	Bartholomew	82,753	4551.42	2590.93	(1960.49)
6	Boone	66,999	3684.95	672.78	(3012.17)
17	Dekalb	43,226	2377.43	677.39	(1700.04)
20	Elkhart	205,560	11305.80	3132.49	(8173.31)
22	Floyd	77,781	4277.96	2997.25	(1280.71)
29	Hamilton	330,086	18154.73	4179.79	(13974.94)
30	Hancock	76,351	4199.31	509.65	(3689.66)
32	Hendricks	167,009	9185.50	1554.72	(7630.78)
41	Johnson	156,225	8592.38	6010.38	(2582.00)
49	Marion	954,670	52506.85	14086.21	(38420.64)
79	Tippecanoe	193,048	10617.64	5771.76	(4845.88)
92	Whitley	34,074	1874.07	1041.26	(832.81)

If the critical counties criteria used only the supply of local acres of outdoor-recreation land (at 20 acres/1,000 population), the list above would change somewhat (up to 17):

- Adams
- Allen
- Bartholomew
- Boone
- Clark
- DeKalb
- Elkhart
- Floyd
- Hamilton
- Hancock
- Hendricks
- Johnson
- Marion
- Porter
- Switzerland
- Tippecanoe
- Whitley

Figure 3.8

CRITICAL COUNTIES BASED ON TOTAL ACRES

