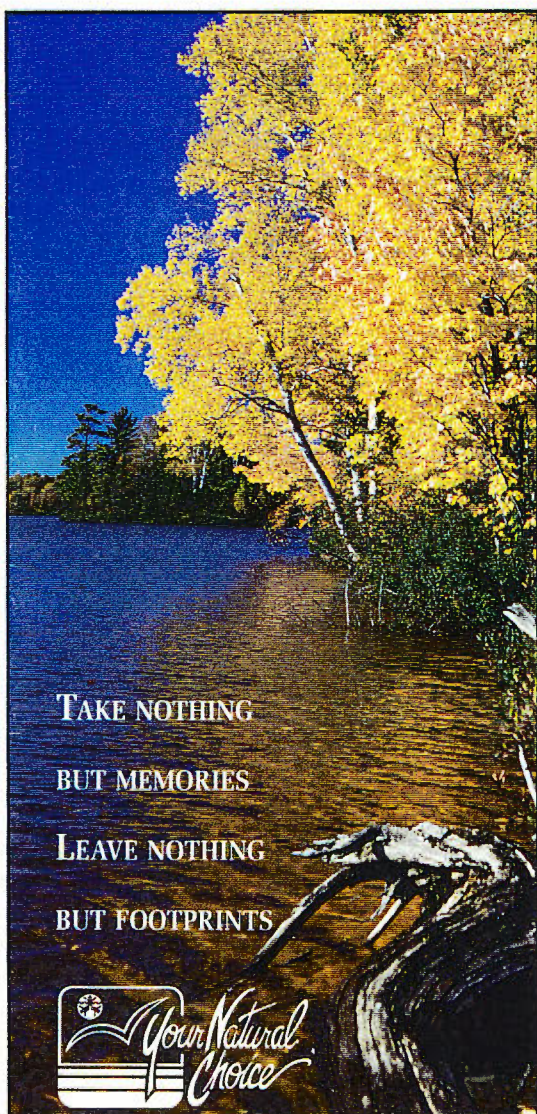


---

# Oakland County Parks and Recreation Master Plan

## 1997 - 2001



*January 1997*

---

# Acknowledgements

## **Oakland County Parks and Recreation Commission**

Pecky D. Lewis, Jr., Chairman  
Ruth Johnson, Vice-Chairman  
Richard D. Kuhn, Jr., Secretary  
Fred Korzon  
Nancy McConnell  
L. Brooks Patterson  
Lawrence Pernick  
Kay Schmid  
Richard Skarritt

## **Oakland County Parks and Recreation**

Ralph Richard, Manager  
Jon J. Kipke, Assistant Manager

### **Prepared by:**

Carlisle/Wortman Associates, Inc.  
111 North Main Street  
Ann Arbor, Michigan 48104

# Contents

## Introduction

Purpose of the Plan.....	1
Planning Process.....	2

## Community Description

Natural Features.....	4
Cultural Features.....	10
Land Use.....	11
Transportation Network and Utilities.....	13
Population and Housing Characteristics .....	15

## Recreation Inventory

Regional Recreation .....	28
Oakland County Recreation.....	28
State Park and Recreation Areas.....	28
Huron-Clinton Metroparks.....	34
Township, Municipal, and School Recreation.....	36
Private Recreation .....	48
Greenways .....	50
Oakland County Park Facilities and Programs .....	51

## Administrative Structure

Administration.....	59
Finance and Budget.....	62

## Basis for Action Program

Public Survey .....	66
Commission and Staff Input.....	67
Participation Data and Trends .....	67
Recreation Needs .....	69

## Action Program

Mission Statements .....	74
Capital Improvement Schedules.....	83
Implementation Strategies.....	97

## Appendix A - Resolution of Adoption and Letters of Transmittal

## Appendix B - Summary of 1996 Public Survey

## Appendix C - Oakland County Parks and Recreation Commission Retreat - April 19, 1996

---

# **Introduction**

---

The Oakland County Parks and Recreation Commission was established in 1966 pursuant to the provisions of Act 261 of the Public Acts of 1965. The Commission was initially funded by a loan of \$100,000 from the Oakland County Board of Supervisors and a five-year, quarter mill tax levy approved by the voters. The latter has continued to be approved on a regular basis and has received approval through 2001.

## **Purpose of the Plan**

The 1997 Oakland County Comprehensive Recreation Plan is intended to guide the recreation planning and development efforts of the Oakland County Parks and Recreation Commission into the twentieth century. This Plan continues the comprehensive planning effort that has contributed to the ongoing improvement of the quality of life and leisure experience for Oakland County residents.

The revised and updated Master Plan is intended to meet State standards for community recreation planning which is necessary for eligibility to grant programs.

The first Parks and Recreation Master Plan was adopted in 1978. The second master plan was adopted in 1986. The 1986 Plan utilized a variety of methods to formulate goals. A citizen survey was distributed to the general public and two administrative surveys were sent to local community and county officials, the Commission, and its staff. In addition to physical resource inventories, local community recreation plans were reviewed, and a series of workshops with staff and local community representatives were held. Finally, state and regional governmental agencies were interviewed.

The 1992 Plan was Oakland County's third park and recreation master planning effort and was built upon the 1986 Plan framework. The 1992 Parks and Recreation Master Plan was based on data gathered for the previous Master Plan as well as a structured retreat conducted with the Parks and Recreation Commission and staff to establish Mission statements, goals and policies; joint local Recreation Directors and Commission meetings; a telephone survey; and park user feedback from comment cards.

The 1986 and 1992 Plans were different from previous plans because they focused on the dynamic social and economic environment in which the Commission operates. The 1992 plan called for several actions which were accomplished such as the expansion of Independence Oaks nature center, development of the waterpark at Waterford Oaks, and the acquisition of environmentally sensitive land at Rose Oaks and Lyon Oaks.

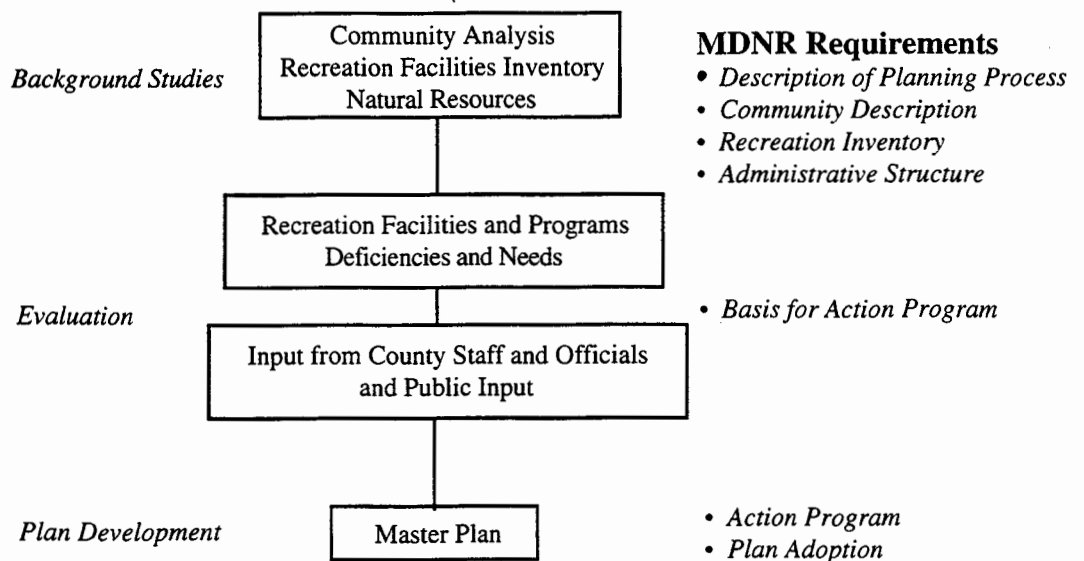
The 1997 Park and Recreation Master Plan update will continue to focus on understanding the changing recreational demands and needs of county residents and other county recreational facility users. The Plan will promote a planning process which will enable the Commission to respond appropriately to the demands and needs of park user. Thus, the revised Plan will provide guidelines for future Commission policies and programs, but remain flexible enough to accommodate changes in the county's social and economic conditions.

# Planning Process

The process used to generate the Plan consists of three phases: background studies, evaluation, and plan development. Background studies involve gathering and updating data from existing documents, plans, and surveys. A number of documents were reviewed. The data is organized into three main categories: community analysis, recreation facilities, and administrative structure.

The second phase in the planning process includes evaluation and analysis of the gathered data to determine recreation facilities and program deficiencies and needs as well as priority and rank setting based on goals, objectives, and budget of the Parks and Recreation Commission.

Finally, the last phase in the process involves plan development and adoption. A specific action plan and capital improvement schedule are developed. The following diagram illustrates this process and its correspondence to Michigan Department of Natural Resources requirements.



The Oakland County Parks and Recreation Master Plan was developed with input from officials of Oakland County, members of the Recreation Commission, staff, and the residents of the community. All meetings were open to the public and public participation was sought during all phases of the planning process, particularly through a telephone survey.

Staff also conducted a variety of departmental meetings which were designed to determine long term planning needs for the various parks and recreation programs. It is from these department meetings, the Commission and staff retreat, and the community description and recreational facility inventories that the Commission's Mission Statements were developed.

The planning process also included a telephone survey which was used to receive citizen comments regarding the County Park system. This telephone survey was conducted by Nordhaus Research Inc. and included 500 households. The survey was used to judge images and attitudes of the park system held by Oakland County park users.

The Commission staff recognizes that the county park system and recreation programs must be responsive to the needs of the residents and provide necessary recreation opportunities. The entire planning process emphasizes the importance of public input. The needs of the public are continually evaluated through periodic citizen surveys and questionnaires as well as ongoing public comment cards which are distributed at various park facilities. It is through this process of public input that the County Parks and Recreation staff maintains responsive recreation programs and facilities.

---

# **Community Description**

---



Oakland County covers 910 square miles immediately north of the City of Detroit, in southeast Michigan. Oakland County is bordered by Genesee and Lapeer Counties to the north, Macomb County to the east, Wayne and Washtenaw Counties to the south, and Genesee and Livingston Counties to the west. In 1990, there were 4,816,488 million people residing in the seven county area. The 1990 population of Oakland County was 1,083,892.

Within Oakland County there are 29 cities, 21 townships and 11 villages (Figure 1). These communities are as follows:

*Cities: Auburn Hills, Berkley, Birmingham, Bloomfield Hills, Clawson, Farmington, Farmington Hills, Ferndale, Hazel Park, Huntington Woods, Keego Harbor, Lake Angelus, Lathrup Village, Madison Heights, Northville, Novi, Oak Park, Orchard Lake Village, Pleasant Ridge, Pontiac, Rochester, Rochester Hills, Royal Oak, Southfield, South Lyon, Sylvan Lake, Troy, Walled Lake and Wixom.*

*Townships: Addison, Bloomfield, Brandon, Commerce, Groveland, Highland, Holly, Independence, Lyon, Milford, Novi, Oakland, Orion, Oxford, Rose, Royal Oak, Southfield, Springfield, Waterford, West Bloomfield and White Lake.*

*Villages: Beverly Hills, Bingham Farms, Clarkston, Franklin, Holly, Lake Orion, Leonard, Milford, Ortonville, Oxford and Wolverine Lake.*

The County is in the center of one of the major industrial and commercial markets of North America. Oakland County lies within a growth corridor beginning in the city of Detroit and following a northwest path that extends into Livingston County. Within this high growth environment Oakland County has rapidly transformed itself from a primarily rural county to a densely populated, suburban county. In 1990, the population of Oakland County exceeded the population of the city of Detroit by 5.4%.

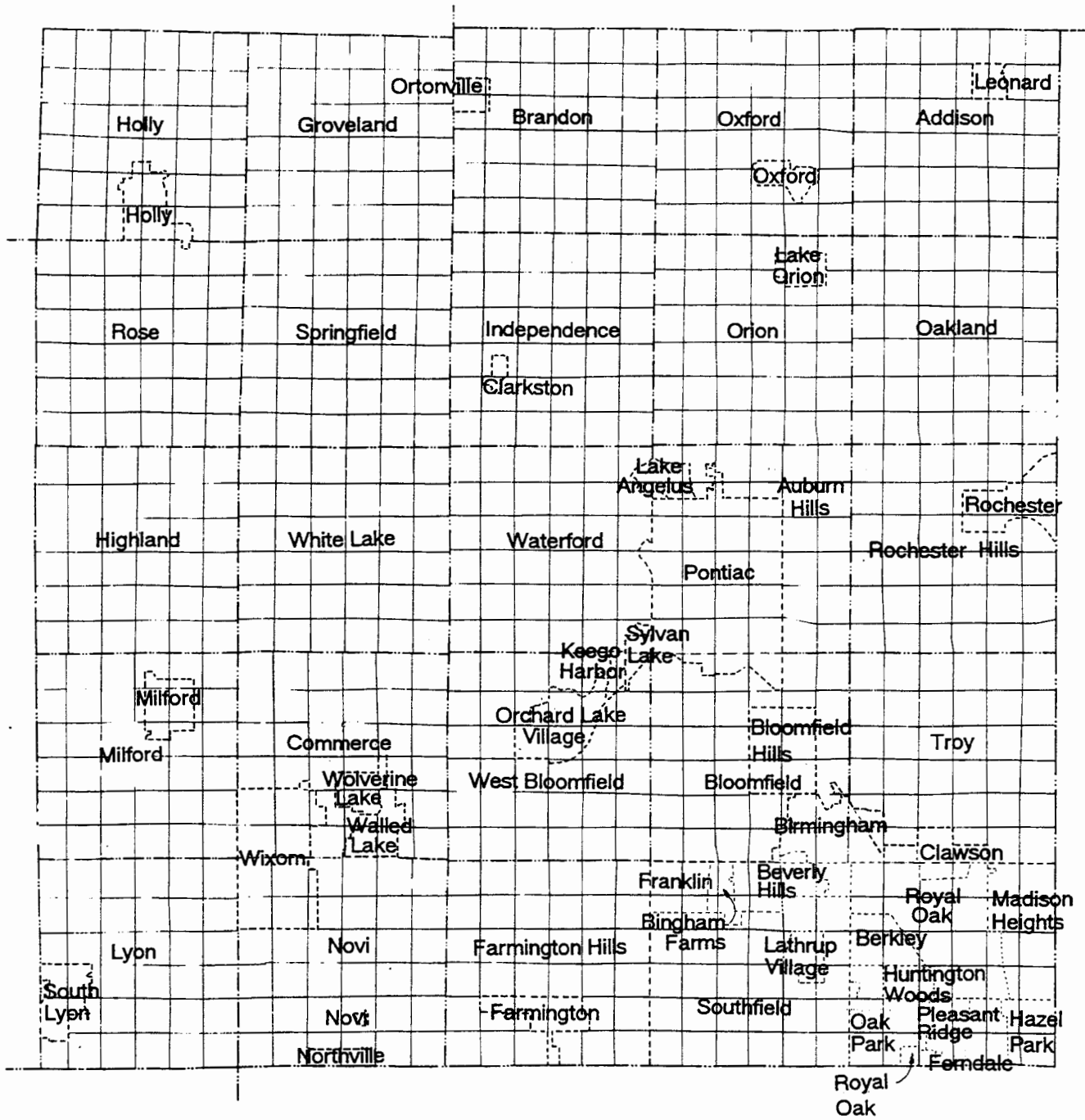
## **Natural Features**

Oakland County covers an area of 910 square miles which encompasses over 400 lakes and 50,000 acres of recreational land for public use.

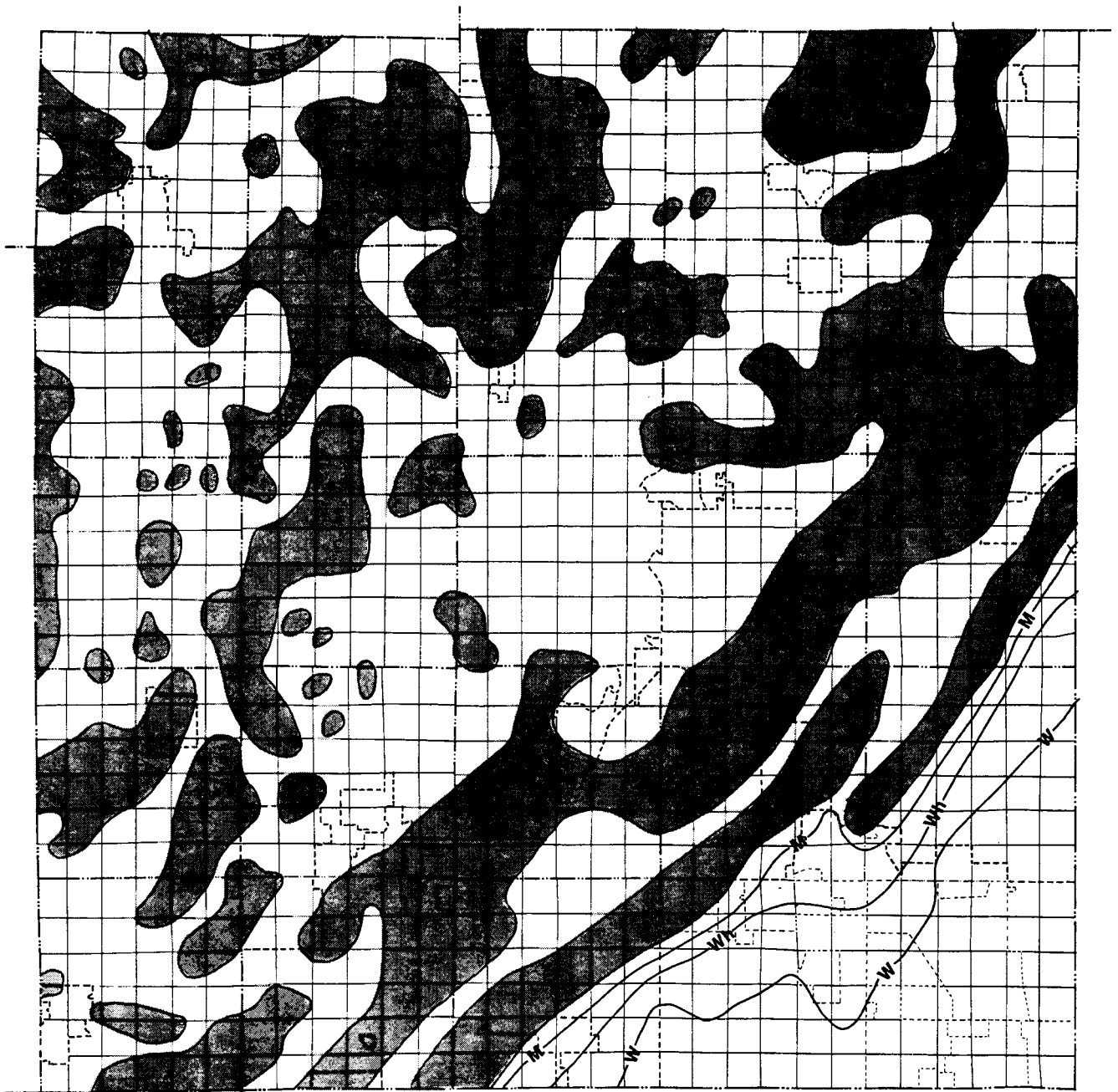
### **Topography**

The distribution of the region's natural features corresponds to distinct geological zones. The southeastern Michigan region is generally characterized as gently rolling plain bounded on the east by a system of water bodies which connect Lake Erie and Lake Huron. The western boundary is composed of a chain of morainic hills which divide the flow of rivers between Lake Michigan and Lake Erie. In between these two natural boundaries are three major river systems: Huron, Clinton, and Rouge. The Flint and Shiawassee systems are located in the northern fringe of the region and drain to the north and west.

As the result of glaciation, the primary features which characterize the Oakland County landscape are two morainic hill belts (the Saginaw and Huron-Erie systems) which cross the county in a northeast-southwest direction, and three outwash plains (Commerce, Drayton and Oxford Plains) (Figure 2). The northern portions of the two hill chains are the location of some of the highest points of elevation in the county;



**Figure 1**  
**City, Townships and Villages**  
**Oakland County**



**Legend**

- Proglacial Lake Shoreline
- W- Lake Warren
- Wh- Lake Whittlesey
- M- Lake Maumee
- Outwash Plain
- Moraine

**Figure 2**

**Physiography  
Oakland County**

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

elevations between 1,000 and 1,200 feet above sea level. The southern belt of hills have typical elevations between 800 and 1,000 feet above sea level. The southern belt cuts diagonally across the county and merges with the northern belt just north of the city of Rochester. Lying between the two belts is a broad, pitted, flat plain composed of outwash sands and gravels. The gravel plain is ten miles wide in some locations; its flatness interrupted by a broken group of hills which generally parallel the two belts of morainic hills.

Scattered throughout the hilly belts and outwash plains are hundreds of depressions, many occupied by inland lakes which range in size from small ponds less than one acre in area to lakes covering one and one-half square miles. The approximately four hundred lakes are an outstanding feature of the county. However, the distribution of the lakes is not equal across the landscape; the southern portion is not as well endowed as other portions. The largest lakes, which occupy 20,000 acres, are Cass and Orchard Lakes.

In the extreme southeast of the county is a glacial lake plain which slopes gently in a southeast direction. The flat character of the lake plain is interrupted by stream courses and a series of former glacial lake beaches. The elevation of this plain decreases from 800 feet to 633 feet near the southeast corner of the county.

The county's topographic elevation varies from 630 feet to 1,221 feet. The total variation in relief is 591 feet. Except for a small area to the northwest of the county which slopes to the north and northwest, the county slopes to the southeast. There are several areas of steep slopes but generally slopes are in the nine to twelve percent range.

Several slopes provide scenic views to the southeast. Particularly notable is the high area running east-west along the border of the City of Pontiac and Orion Township. Other scenic views are found at the Kensington Metropark (Milford Township) and along Granger Road in Brandon and Oxford Townships.

## **Soils**

About thirty-nine different kinds of soil are found in Oakland County. In the southeastern corner of the county, the undisturbed soils are mostly nearly level to gently sloping; poorly drained to moderately well drained; and sandy, loamy or have clay throughout. Wetness is the major limitation to the use of soils in this area. In the northern two-thirds of the county, the soils are mostly undulating to very hilly. They are dominantly moderately well drained to well drained and are loamy or loamy and sandy throughout. Some are underlain by gravelly sand. The hazard of erosion is generally moderate to severe in this area. Measures are needed to control erosion and thereby reduce sedimentation in streams.

County soils were deposited by receding glaciers. Soil types range from sand and gravel to clay and peat. Perk tests for septic tanks have indicated problems with percolation of scattered locations throughout the county.

## **Hydrology**

The drainage in Oakland County is poor; a usual condition for an area covered by glacial deposits. The five river systems have their origin in the morainic belts and outwash plains. The land area that lies northwest of the upland hills is drained by the

Flint and Shiawassee River systems. The area to the southeast of the upland hills is drained by the Clinton, Huron and Rouge Rivers (Figure 3).

The headwaters of both the Huron and Clinton River are located in Oakland County and formed in gravel plains that drain the overflow from many of the lakes within the watershed. The Huron River flows southwest out of the county and the Clinton drains to the east. The River Rouge and its upper and middle branches flow to the south.

Oakland County has more natural lakes than any other county in the state. County lakes, public or privately owned, typically are surrounded by residences. The lakes surrounded by residences have experienced pollution from septic fields and fertilizers which has resulted in excessive weed growth.

All lakes are used for a variety of water activities. Those lakes governed by a lake association have regulations pertaining to water levels for recreational purposes, and watercraft and motor size limits.

The artificial drainage of lakes and marshes has been attempted in order to accommodate development in the hilly ranges and outwash plains. Artificial drainage projects have been most beneficial in the glacial lake plain where rapidly growing communities have required artificial drainage to protect the public health, safety and welfare.

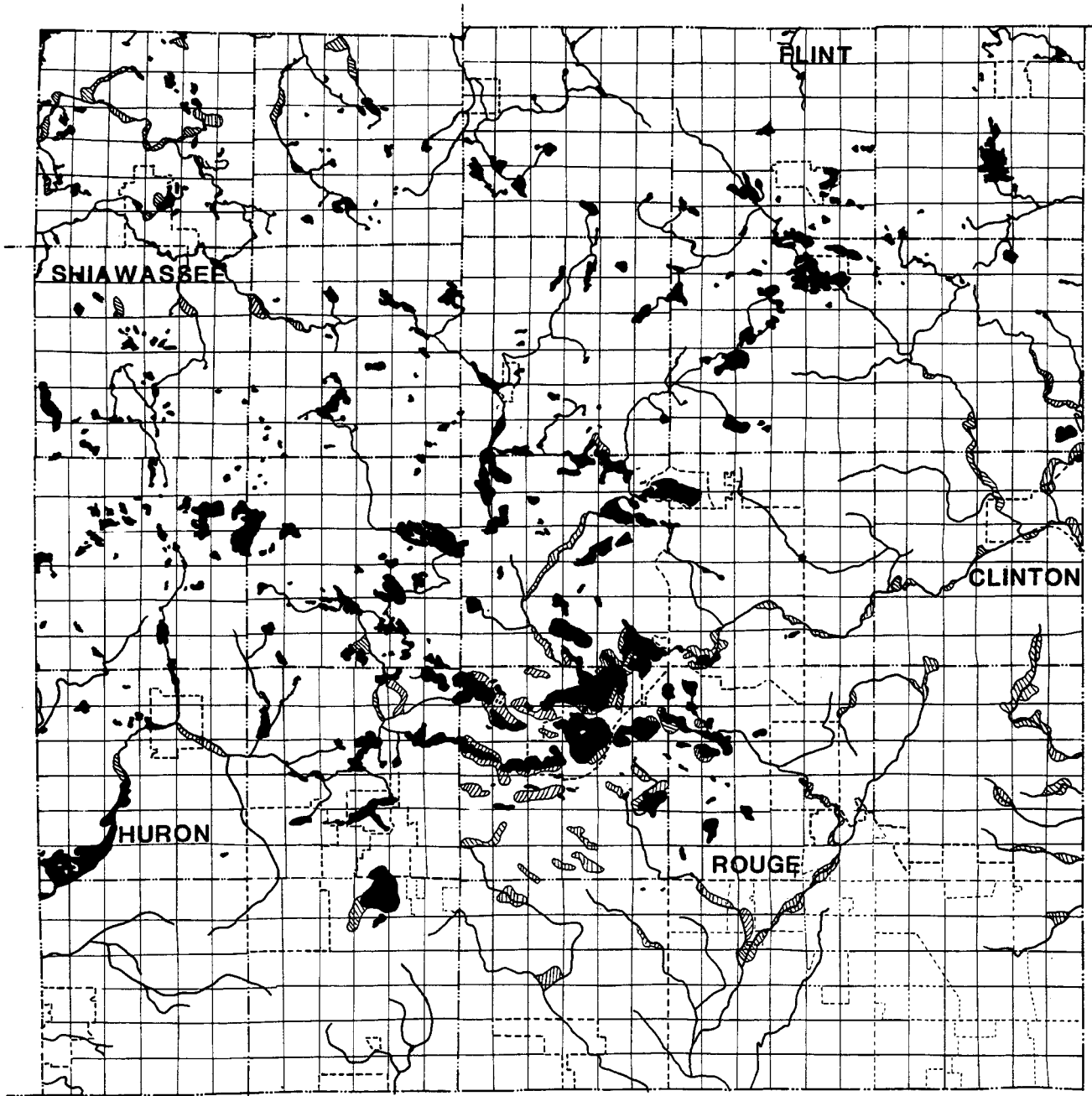
## **Vegetation**

Oakland County lies in a deciduous forest zone in which the climax forest is beech and maple. Five major forests are found in the county: floodplain forests, mixed hardwoods, oak-hickory, beech-maple and pine-hardwoods. The vegetation communities which are typical and representative of the area include: swamps and marshes, bogs, lake shores, streamsides, meadows abandoned fields and roadsides.

Birch and tamarack swamps, the latter being rare in the county, and several kinds of marshes are found in the area. Cattail marshes are most easily identified. In addition, there are dogwood-holly marshes and a few dogwood-willow marshes as well as sedge-rush marshes.

A fairly unique environment in Oakland County is the bog. These are generally dominated by a single species, either tamarack, cedar, or spruce, with a supporting shrub layer of poison sumac, rosemary or leatherleaf.

The county's numerous lakes are not identical in soil quality and water clarity and, therefore, the vegetation supported on the shores is varied. Some lakes are completely enclosed by swamps, others have swamp, marsh and sandy shores. The land is low and level along most water courses. The streams flow sluggishly (except for seasonal variations) in and out of lakes and marshes. Plants typical of this environment are similar to those in the floodplain forests and in wet meadows.



**Figure 3**

**Lakes and Rivers  
Oakland County**

**Legend**

-  River
-  Lake
-  Floodplain Areas

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

## **Wildlife**

The larger species have moved north as urbanization has occurred. Many Townships are open for deer, pheasant and duck seasons. In addition to deer, typical types of wildlife are raccoons, muskrats, opossum, rabbits, mice, rats, snakes, birds, ducks and fish.

Fishing is the major wildlife recreation past time in the county. The Department of Natural Resources Fisheries and Wildlife Division stocks some of the lakes and streams. Groveland Oaks was stocked with large and small mouth bass in 1954. The DNR reports this as an excellent pan fishing lake. Independence Oaks was stocked in 1977 with Pike, and in 1980 and 1981 with rainbow trout. The fishing is reported to be fair by staff. Addison Oaks has never been stocked but is reported to have excellent pike, bass and crappie. Crooked Lake was stocked by Oakland County with limited success.

## **Climate**

The consequences of climate and climatic fluctuations are seen most critically in the county flooding potential. Average annual precipitation ranges between twenty-seven inches in the north and central part of the county and thirty-two inches in the Royal Oak and Northville area. Communities along the Woodward corridor receive two to four inches more rain per year than the rest of the county.

There is a minor snow belt in the county which generally parallels the morainic hills. The average snowfall is thirty-nine inches; the snowfall is heavier to the north and west with as much as a two inch variation across the county. Temperatures vary across the county in a similar pattern. Oakland county is a part of Zone 4 which limits vegetative growth to those species which can survive low temperatures between -10°F and -20°F.

## **Cultural Features**

Many individual homes and buildings within the county have been appointed to the State Register of Historic Sites as well as to the National Register of Historic Places.

Prominent in Oakland County are unique environments such as cider mills, reconstructed commercial districts, model farms and antique villages. These environments are widely known throughout the county and region. Examples are the Paint Creek Cider Mill, downtown Birmingham and Rochester, Commerce Mills, Botsford Inn, Cranbrook, Stoney Creek Historical District and Meadowbrook Farms.

There are also archaeological sites and historic Indian settlements in the County.

## Land Use

Land development within the county has gradually pushed outward from the Detroit Metropolitan area and the City of Pontiac in a concentric pattern. Figure 4 and Table 1 describe, in broad terms, the land use patterns of single family and multiple family residential, institutional, commercial and office, industrial, outdoor recreation and conservation, agricultural, transportation, utility and communication, rights-of-way, and water.

**Table 1. Land Use Inventory: 1986-1993**

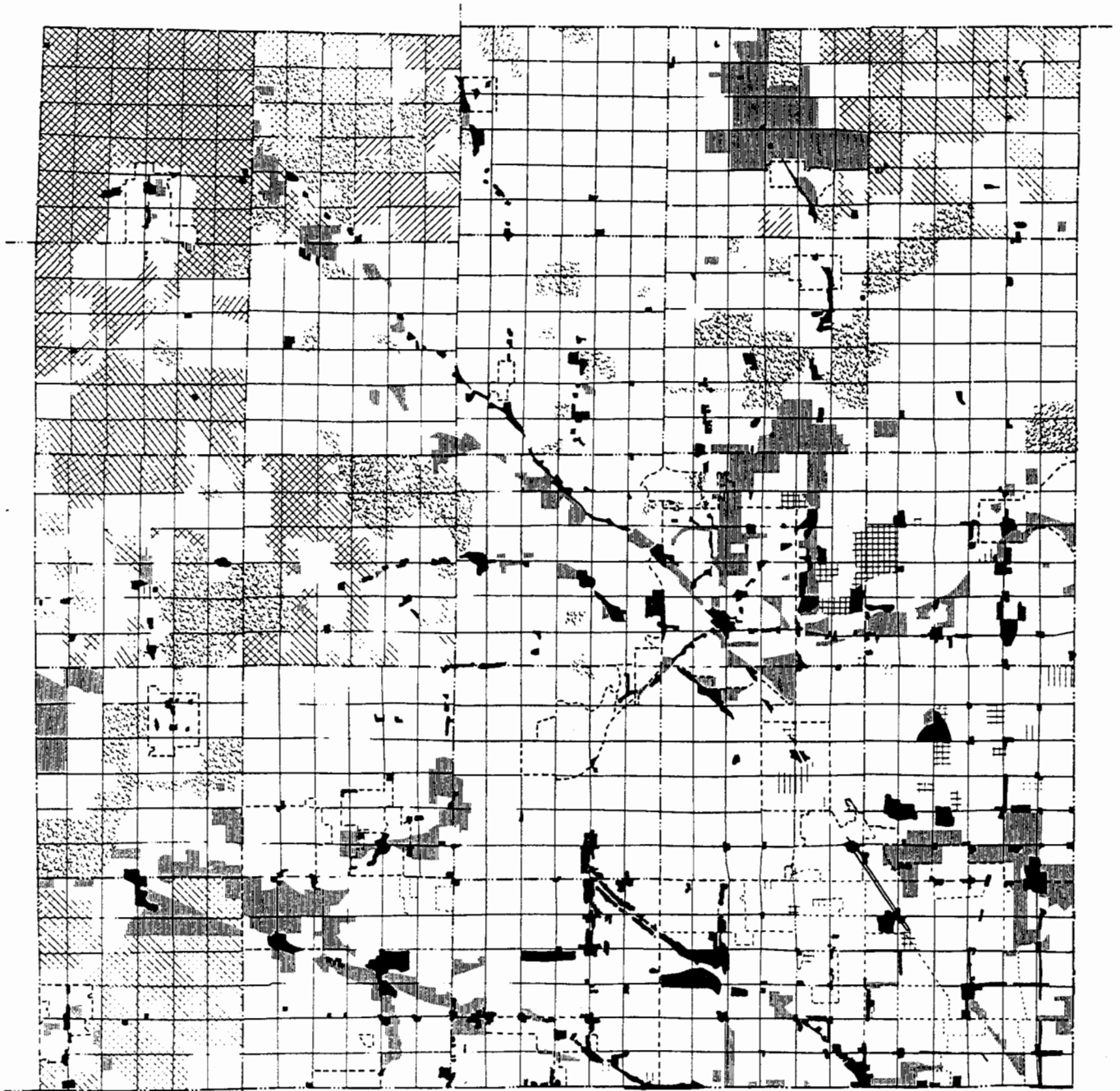
Land Use Category	1986 Acreages		1988 Acreages		1993 Acreages	1993 Percent of Total	1986-1993 Acreage Changes
Single Family	144,951		150,769				+5,818
Multiple Family	11,705	156,656	12,986	163,755	163,000	28.1%	+1,281
Institutional	19,853		20,013				+160
Commercial & Office	13,381		14,647				+1,266
Industrial	16,998	50,232	18,509	53,169	53,000	9.1%	+1,511
Outdoor Recreation & Conservation	55,630	55,630	57,303	57,303	57,100	9.9%	+1,673
Agricultural	68,753	68,753	62,769	62,769			-5,984
Transportation & Communication	5,406		5,437				+31
Utility Rights-of-Way	29,874	35,280	29,876	35,313	35,300	6.1%	+2
Vacant	185,827	185,827	180,069	180,069			-5,758
Water	27,296	27,296	27,296	27,296	27,296	4.7%	0
<b>County Totals</b>	<b>579,674</b>		<b>579,674</b>				<b>0</b>

Source: Oakland County, Development and Planning Division








Conclusions regarding land use patterns between 1986 and 1993 include:

- About 6,000 acres of agricultural land and 6,000 acres of vacant land were converted into residential development. Commercial, office, and industrial land uses also increased by over 3,000 acres.
- Outdoor recreation and conservation gained over 1,600 acres of land during this period.





**Legend**

-  Industrial
-  Residential
-  Rural Agricultural
-  Commercial, Office, Parking, Transitional
-  Recreation - Natural Resources
-  Public / Quasi-Public
-  Transportation, Communications

**Figure 4**

**Land Use Map  
Oakland County**

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

## Transportation Network

The people of Oakland County are dependent on the automobile for transportation. Other modes, such as bus, are available, but play a minor role in moving people. Roads and highways in the county are well integrated into the regional and state network. Interstates 96, 75, 275, 696, and M-5 provide routes to destinations inside and outside of Oakland County.

The Oakland International Airport in Waterford Township is the largest airport in the county. It serves as a base for a small fleet of business jets, some cargo operations and many light planes. The Troy Airport is a smaller airport located in the county. In addition, there are several grass landing fields throughout the county which are used by small aeronautic clubs, crop duster and recreational planes.

The Grand Trunk Western (Detroit, Grand Haven and Milwaukee), New York Central, and Chesapeake and Ohio each operate railroads in the county. A number rail right-of-ways have been vacated.

Bicycle circulation occurs along roadways and in some cases on separate bike paths. There are several Class III bike paths located in Rochester Hills, West Bloomfield, and Bloomfield Township and in Farmington Hills.

The Oakland County Planning Division has prepared a linked Recreation Trail System Concept (Figure 5). The linked recreation trail system concept suggests potential opportunities for providing Oakland County residents with recreation and access to parklands. This concept is based on the utilization of abandoned rights-of-way, utility easements and waterways as potential corridors for recreational hiking, biking, cross country skiing and equestrian travel. These systems would form a network linking residential areas and towns centers with outlying recreational lands. The Oakland County system would become a part of the Discover Michigan Trail.

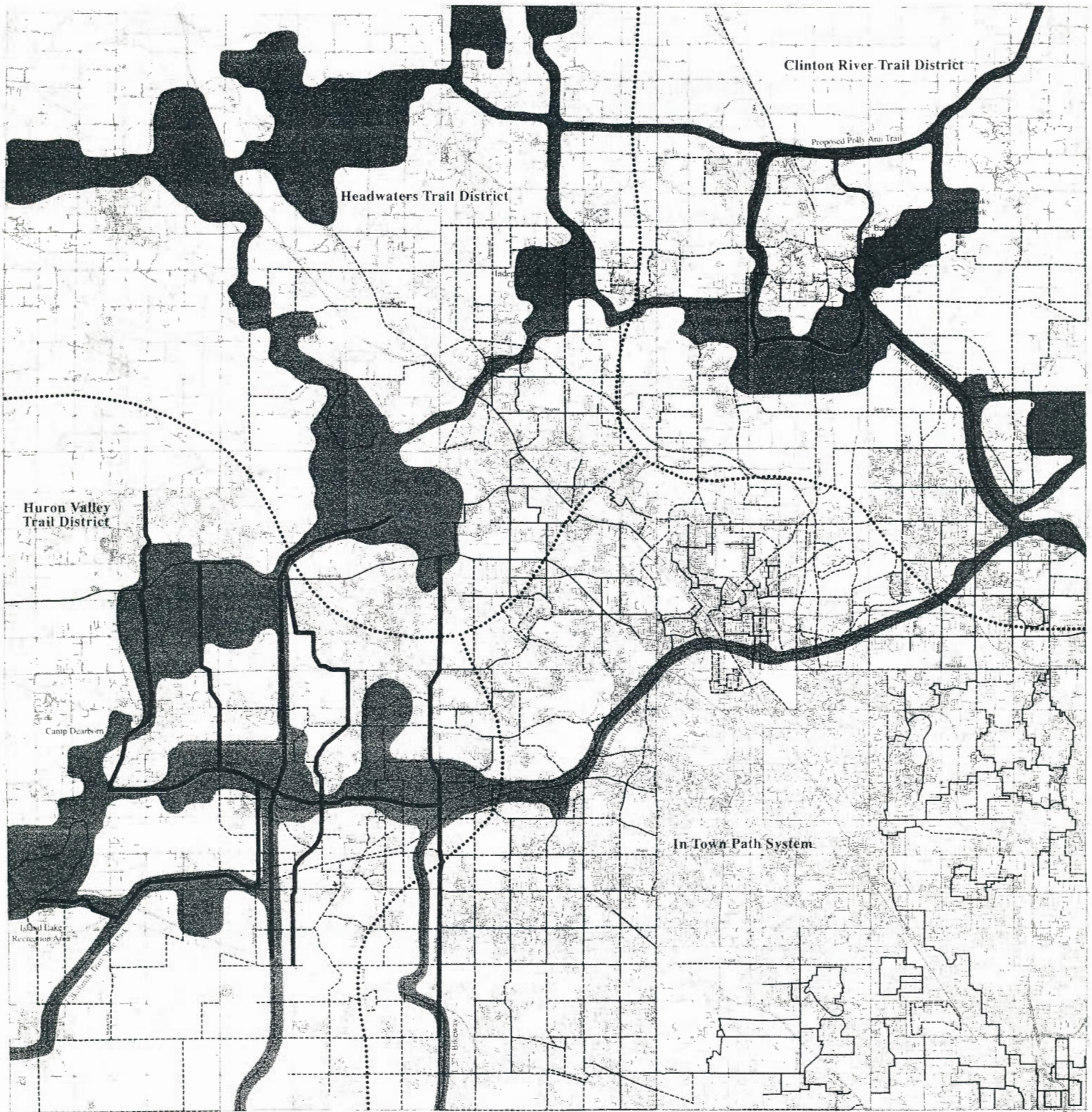


Figure 5

# Recreation Trail System Oakland County

Prepared by: SEMCOG



**Note:** This map depicts information as of February 1983 as supplied to the Oakland County Planning Division by local communities. The information presented has not been field checked by the Oakland County Planning Division. To obtain detailed information on the present status and location of bicycle paths / routes contact the local unit of government in which you ride.

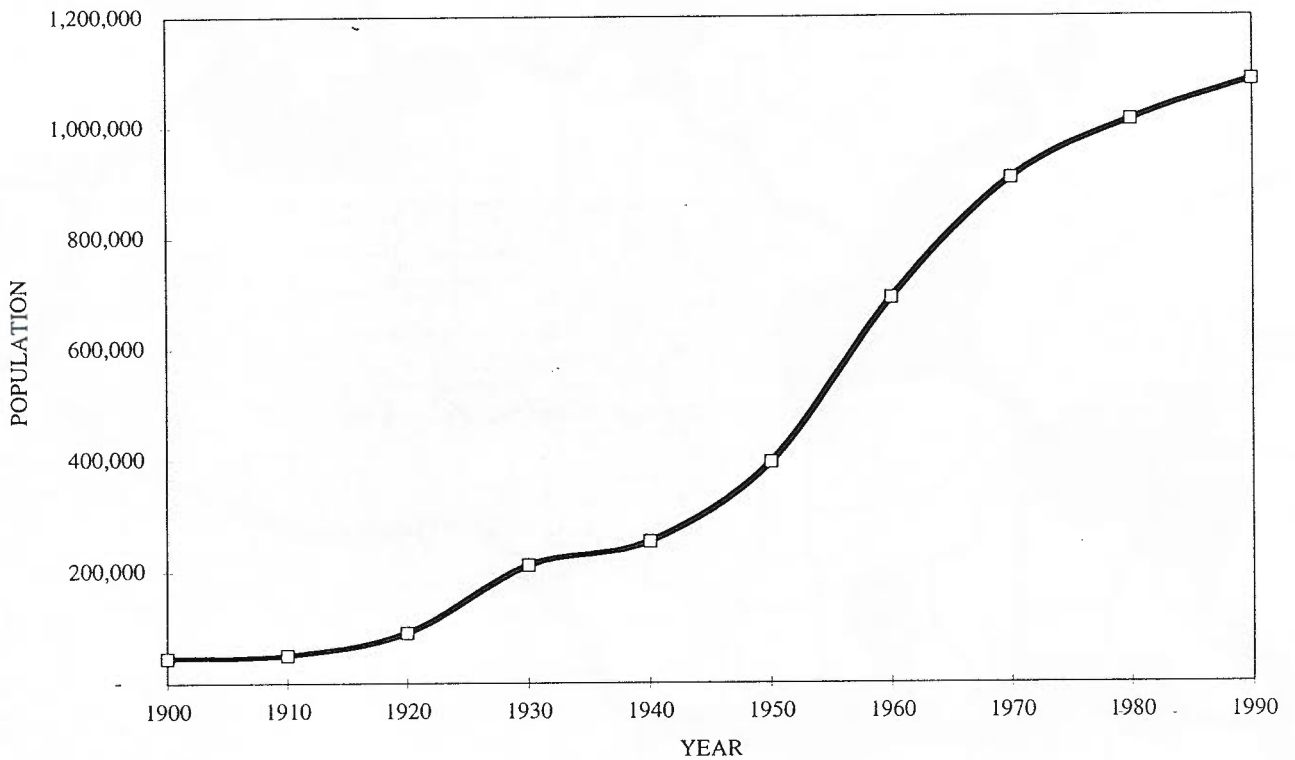
- Existing Paths / Routes ———
- Proposed Paths / Routes - - - - -
- Multi Community Path / Route Conceptual Corridor Options ———
- Linked Recreational Trail System Concept ———
- Approximate Trail District Boundary ·····

# Population and Housing Characteristics

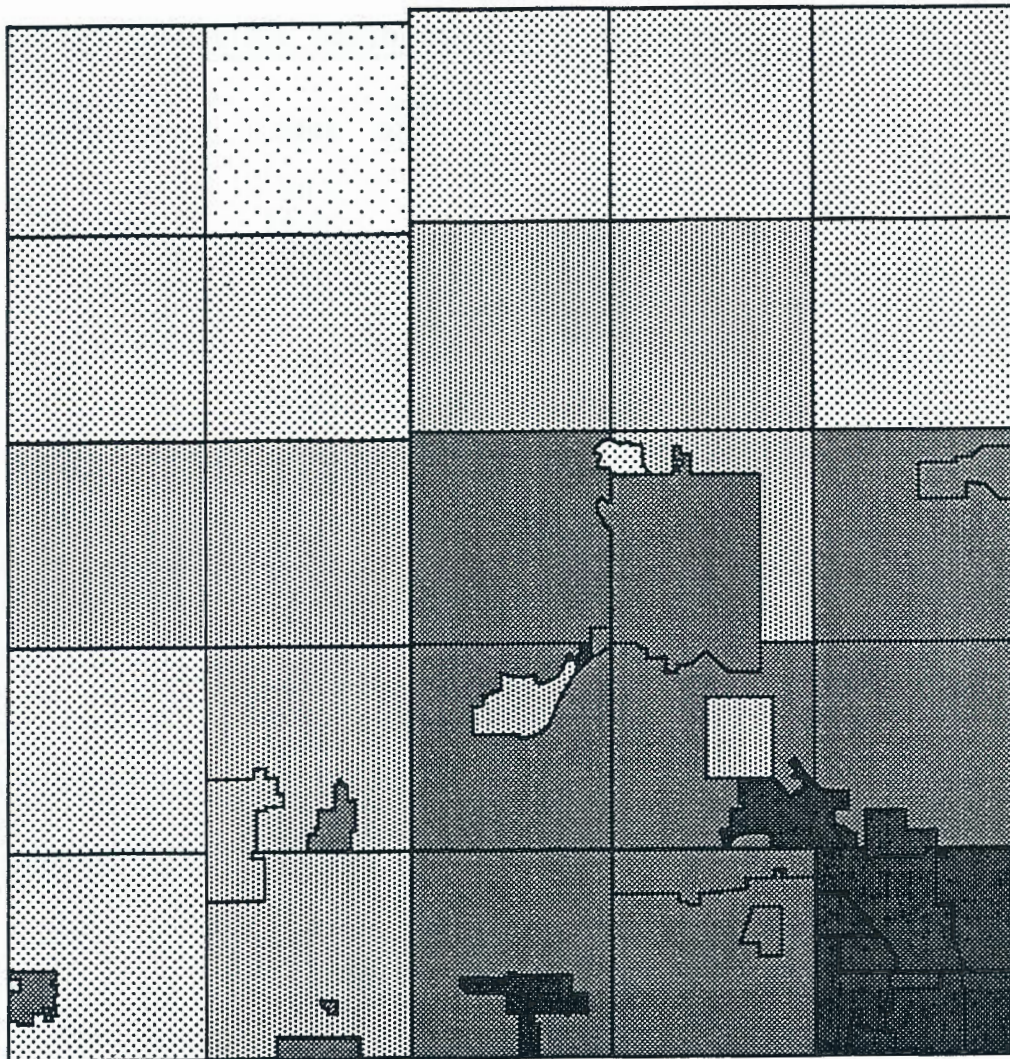
## Population

Oakland County is home to 1,083,592 people, a 7.1% increase from 1980. The following chart depicts population growth by decade since 1900.

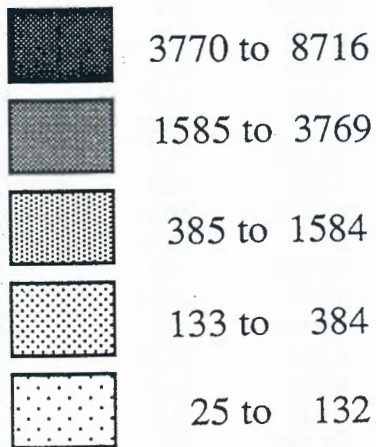
OAKLAND COUNTY POPULATION: 1900-1990



More specifically, the Oakland County's population growth between 1970 and 1990 is illustrated in Table 2 by communities. Figure 6 illustrates the county's 1990 population distribution.



Persons  
per square mile



**Figure 6**  
**1990 Population Distribution**  
**Oakland County**

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

Source: SEMCOG

**Table 2. Population and Percentage Increases 1970-1990**

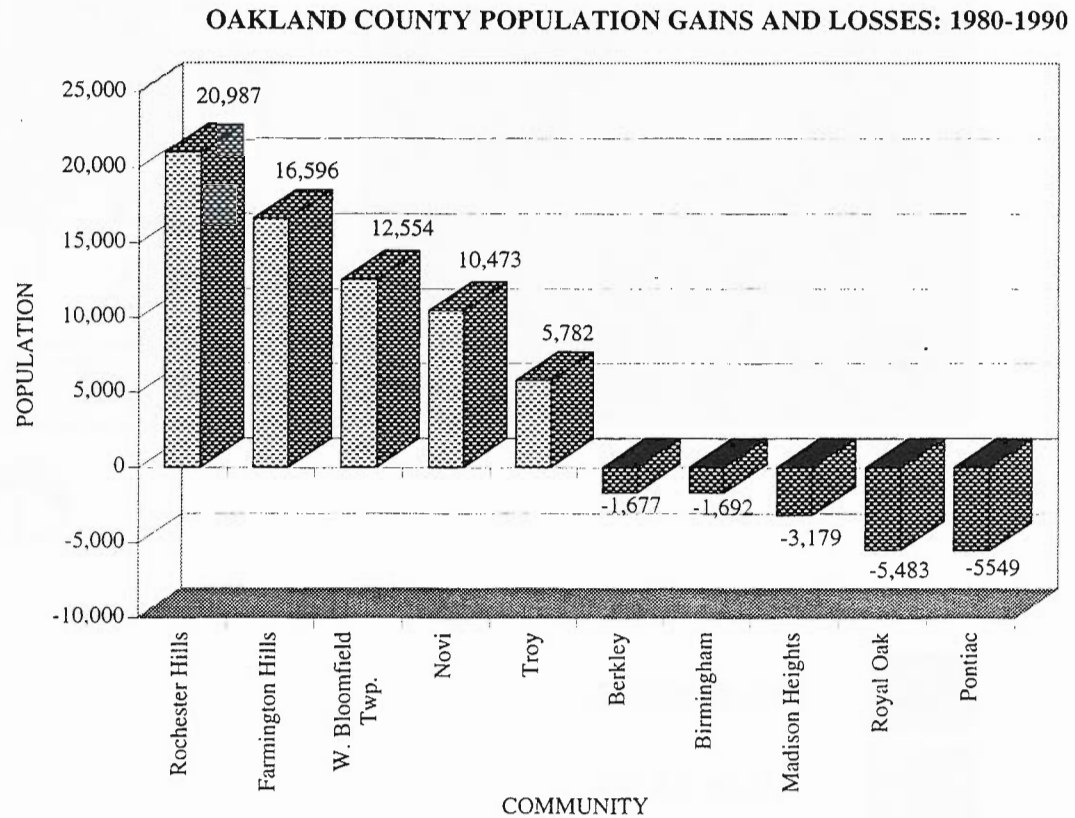
Community	1970	% Change 1970-1980	1980	% Change 1980-1990	1990
Addison Township	2,431	72.1	4,184	14.4	4,785
Auburn Hills	12,648	21.7	15,388	11.0	17,076
Berkley	21,879	-14.8	18,637	-9.0	16,960
Beverly Hills	13,598	-14.7	11,598	-8.4	10,628
Bingham Farms	566	-6.5	529	89.2	1,001
Birmingham	26,170	-17.1	21,689	-7.8	19,997
Bloomfield Hills	3,672	8.5	3,985	7.6	4,288
Bloomfield Twp.	42,788	0.2	42,876	-0.9	42,473
Brandon Township	3,830	117.7	8,336	29.5	10,799
Clarkston	1,034	-6.4	968	3.8	1,005
Clawson	17,617	-14.3	15,103	-8.1	13,874
Commerce Twp.	14,556	29.1	18,789	18.3	22,228
Farmington	17,617	6.7	11,022	-8.1	10,132
Farmington Hills	10,329	19.2	58,056	28.6	74,652
Ferndale	30,850	-15.0	26,227	-4.4	25,084
Franklin	3,311	-13.5	2,864	-8.3	2,626
Groveland Twp.	2,570	60.1	4,114	14.4	4,705
Hazel Park	23,784	-12.1	20,914	-4.1	20,251
Highland Park	8,372	102.6	16,958	5.8	17,941
Holly	4,355	11.9	4,874	14.8	5,595
Holly Township	3,041	18.8	3,612	-9.8	3,257
Huntington Woods	8,536	-18.7	6,937	-7.5	6,419
Independence Twp.	16,327	26.0	20,569	15.3	23,717
Keego Harbor	3,092	-0.3	3,083	-4.9	2,932
Lake Angelus	573	-30.7	397	-17.4	328
Lake Orion	2,921	-0.5	2,907	5.2	3,057
Lathrup Village	4,676	-0.8	4,639	-6.7	4,329
Leonard	378	11.9	423	-15.6	357
Lyon Township	4,500	57.3	7,078	33.5	9,450
Madison Heights	38,599	-8.4	35,375	-9.0	32,196
Milford	4,699	7.3	5,041	9.3	5,511
Milford Township	2,557	101.3	5,146	28.4	6,610
Northville	2,367	17.7	2,785	20.9	3,367
Novi	9,668	132.9	22,675	46.2	33,148
Oakland Township	4,793	59.1	7,628	7.9	8,227
Oak Park	36,762	-14.2	31,537	-3.4	30,462
Orchard Lake	1,487	20.9	1,798	27.1	2,286
Orion Township	14,189	37.9	19,566	7.4	21,019
Ortonville	983	21.1	1,190	5.2	1,252
Oxford	2,536	8.3	2,746	6.7	2,929
Oxford Township	5,953	31.4	7,823	15.1	9,004
Pleasant Ridge	3,989	-19.4	3,217	-13.7	2,775
Pontiac	85,279	-10.0	76,715	-7.2	71,166
Rochester	7,054	2.1	7,203	-1.0	7,130
Rochester Hills	24,513	66.4	40,779	51.5	61,766
Rose Township	2,502	78.5	4,465	10.3	4,926
Royal Oak	86,238	17.8	70,893	-7.7	65,410
Royal Oak Township	6,362	-8.6	5,784	-13.4	5,011
Southfield	69,285	9.1	75,604	0.2	75,728
South Lyon	2,675	94.9	5,214	12.3	5,857
Springfield Twp.	4,388	89.0	8,295	19.7	9,927
Sylvan Lake	2,219	-12.2	1,949	-3.3	1,884
Troy	39,419	70.2	67,102	8.6	72,884

Walled Lake	3,759	26.3	4,748	32.2	6,278
Waterford Township	59,123	9.0	64,250	3.8	66,692
W. Bloomfield Twp.	28,563	46.9	41,962	29.9	54,516
White Lake Twp.	14,311	52.8	21,870	3.4	22,608
Wixom	2,010	233.6	6,705	27.5	8,550
Wolverine Lake	4,381	15.5	4,968	-4.9	4,727

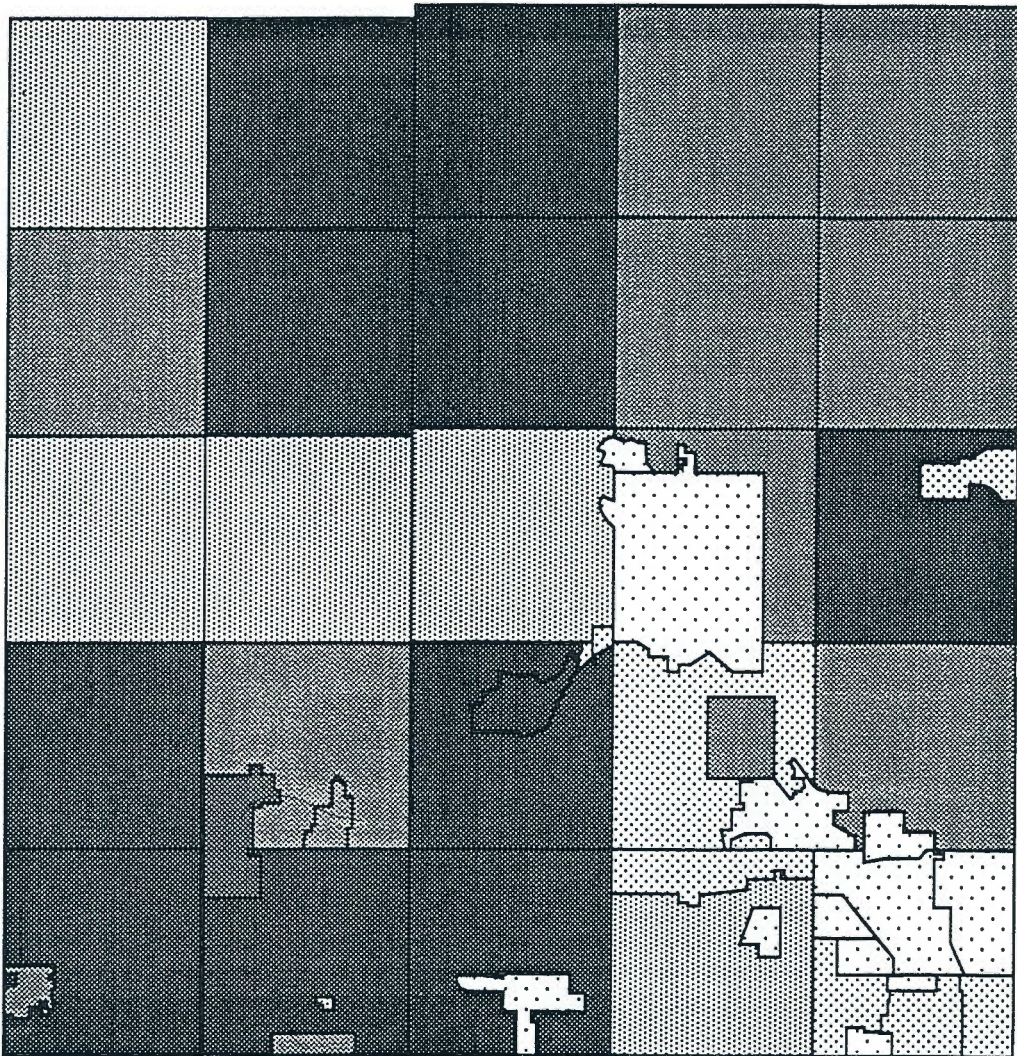
Oakland County	907,871	11.4	1,011,793	7.1	1,083,592
----------------	---------	------	-----------	-----	-----------

Source: U.S. Census Bureau

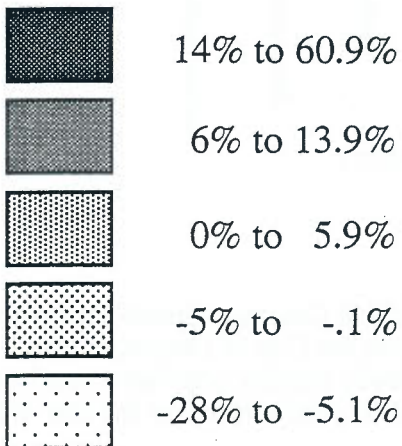
The following chart depicts both the top five communities in terms of population gain between 1980 and 1990, and the bottom five communities in terms of population loss between 1980 and 1990. Figure 7 illustrates the population change between 1980 and 1990.



Population growth over the last decade in Oakland County supports the contention that development is following a northwest path from the City of Detroit. Indeed, communities located north and west of the already densely populated southeast corner of the county have shown the greatest increase in population over the last decade.



Percent Change



**Figure 7**

**1980 - 1990 Population Change  
Oakland County**

Source: SEMCOG

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan



## Population Projections

The Southeastern Council of Governments (SEMCOG) prepared population forecasts at five year intervals for the period from 1995 to 2020. Population projections were derived using 1990 Census population figures and from household size characteristics applied to each communities' mix of housing types. Table 3 presents population projections for 1995-2020 for Oakland County communities by absolute and percentage figures.

**Table 3. Population Projections: 1995-2020**

Community	1995	2000	2005	2010	2015	2020	Absolute Increase '95-2020	Percent Increase '95-2020
Addison Twp.	5483	5978	6443	6918	7418	7858	2375	43.3%
Auburn Hills	19,663	21,692	23,933	25,611	27,183	28,564	8901	45.3%
Berkley	16,986	16,845	16,659	16,592	16,711	16,822	-164	-1.0%
Beverly Hills	10,341	10,222	10,051	10,005	10,173	10,321	-20	-0.2%
Bingham Farms	995	942	910	893	900	923	-72	-7.2%
Birmingham	20,147	20,204	20,135	20,183	20,296	20,316	169	0.8%
Bloomfield Hills	4427	4561	4674	4791	4873	4966	539	12.2%
Bloomfield Twp.	43,136	42,678	42,067	41,422	41,179	41,015	-2121	-4.9%
Brandon Twp.	12,220	13,255	14,218	15,214	16,292	17,259	5039	41.2%
Clarkston	977	955	926	905	889	878	-99	-10.1%
Clawson	13,606	13,167	12,866	12,625	12,588	12,535	-1071	-7.9%
Commerce Twp.	26,267	29,159	31,842	34,698	38,071	40,993	14726	56.1%
Farmington	10,190	10,173	10,136	10,136	10,137	10,135	-55	-0.5%
Farmington Hills	78,124	79,943	81,697	82,745	83,224	83,429	5305	6.8%
Ferndale	25,054	24,825	24,729	24,843	25,109	25,582	528	2.1%
Franklin	2679	2519	2425	2366	2372	2414	-265	-9.9%
Groveland Twp.	5432	5954	6461	6976	7517	7994	2562	47.2%
Hazel Park	20,108	19,532	19,141	19,007	19,247	19,525	-583	-2.9%
Highland Park	19,071	20,197	21,348	22,822	24,631	26,312	7241	38.0%
Holly	5809	5975	6076	6232	6409	6573	764	13.2%
Holly Township	3660	3854	4035	4186	4333	4452	792	21.6%
Huntington Woods	6429	6441	6463	6515	6624	6711	282	4.4%
Independence Twp.	28,498	32,319	35,551	38,280	40,401	41,703	13205	46.3%
Keego Harbor	2938	2892	2852	2857	2866	2966	28	1.0%
Lake Angelus	338	341	343	348	362	367	29	8.6%
Lake Orion	3009	3044	3035	3004	2954	2900	-109	-3.6%
Lathrup Village	4296	4222	4127	4056	4049	4066	-230	-5.4%
Leonard	380	396	404	424	451	478	98	25.8%
Lyon Township	9854	11,005	12,316	14,030	16,236	18,419	8565	86.9%
Madison Heights	31,436	30,218	29,384	28,706	28,271	27,920	-3516	-11.2%
Milford	6301	6716	7078	7387	7497	7500	1199	19.0%
Milford Twp.	8142	9281	10,343	11,438	12,606	13,507	5365	65.9%
Northville	3408	3347	3238	3139	3044	2967	-441	-12.9%
Novi	41,595	48,731	56,161	63,682	71,419	78,053	36458	87.6%
Oakland Twp.	10,232	11,665	13,699	16,499	20,436	24,515	14283	139.6%
Oak Park	30,905	30,977	31,108	31,529	32,380	33,016	2111	6.8%
Orchard Lake	2326	2387	2433	2504	2577	2626	300	12.9%
Orion Twp.	25,409	28,695	31,569	34,256	36,441	37,985	12576	49.5%
Ortonville	1524	1677	1834	1980	2133	2227	703	46.1%
Oxford	3235	3422	3509	3511	3469	3404	169	5.2%
Oxford Twp.	10,278	11,171	12,028	12,922	13,872	14,720	4442	43.2%
Pleasant Ridge	2805	2754	2702	2677	2684	2692	-113	-4.0%
Pontiac	70,034	67,018	64,823	63,372	62,898	62,658	-7376	-10.5%

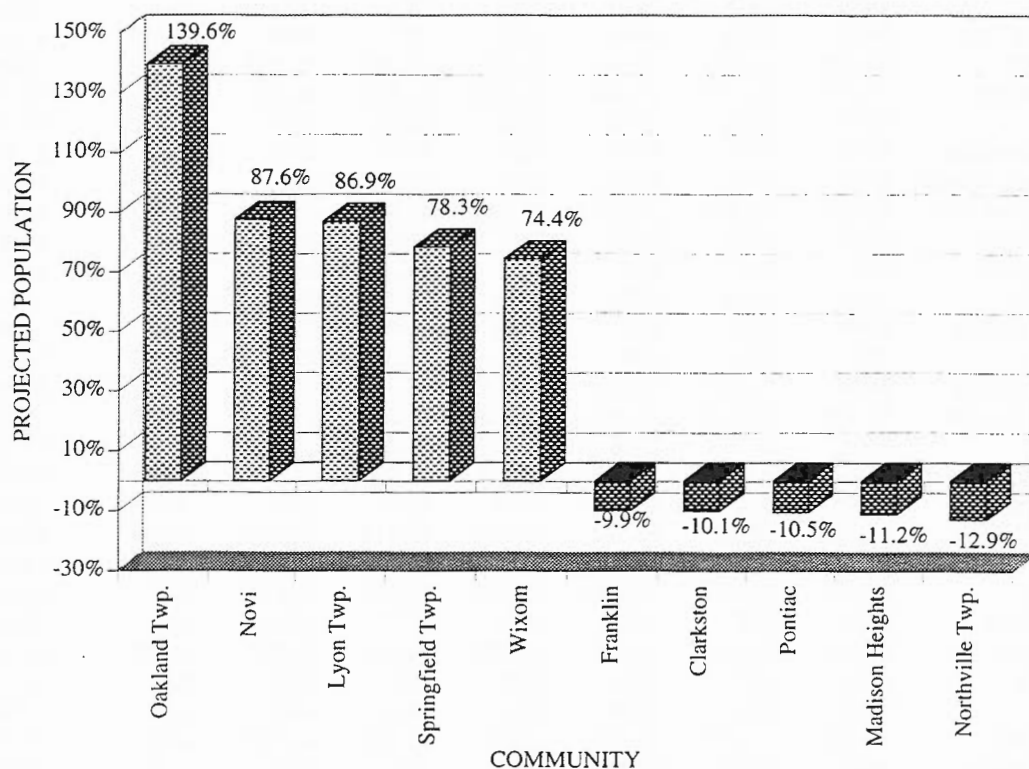
Rochester	7761	8335	8958	9678	10,550	11,393	3632	46.8%
Rochester Hills	66,365	69,537	72,033	73,749	75,840	77,801	11436	17.2%
Rose Township	5853	6472	7114	7753	8422	9020	3167	54.1%
Royal Oak	65,367	64,479	64,087	64,253	64,951	65,544	177	0.3%
Royal Oak Twp.	5152	5173	5084	5133	5391	5548	396	7.7%
Southfield	75,331	74,377	73,503	73,323	73,654	73,959	-1372	-1.8%
South Lyon	8166	10,642	11,771	12,553	13,067	13,381	5215	63.9%
Springfield Twp.	12,660	14,587	16,598	18,628	20,734	22,579	9919	78.3%
Sylvan Lake	1915	1905	1861	1807	1757	1782	-133	-6.9%
Troy	79,002	82,136	85,158	85,836	87,282	89,110	10108	12.8%
Walled Lake	6479	6932	7255	7725	8236	8730	2251	34.7%
Waterford Twp.	69,222	69,679	70,561	71,719	73,299	74,577	5355	7.7%
W.Bloomfield Tp.	57,162	59,566	61,168	62,899	64,703	65,991	8829	15.4%
White Lake Twp.	26,527	28,911	31,013	32,690	34,206	35,390	8863	33.4%
Wixom	11,487	13,506	15,579	17,490	18,936	20,028	8541	74.4%
Wolverine Lake	4676	4578	4667	4700	4747	4747	71	1.5%

Oakland County	1150872	1192164	1232182	1272192	1318997	1359846	208974	18.2%
----------------	---------	---------	---------	---------	---------	---------	--------	-------

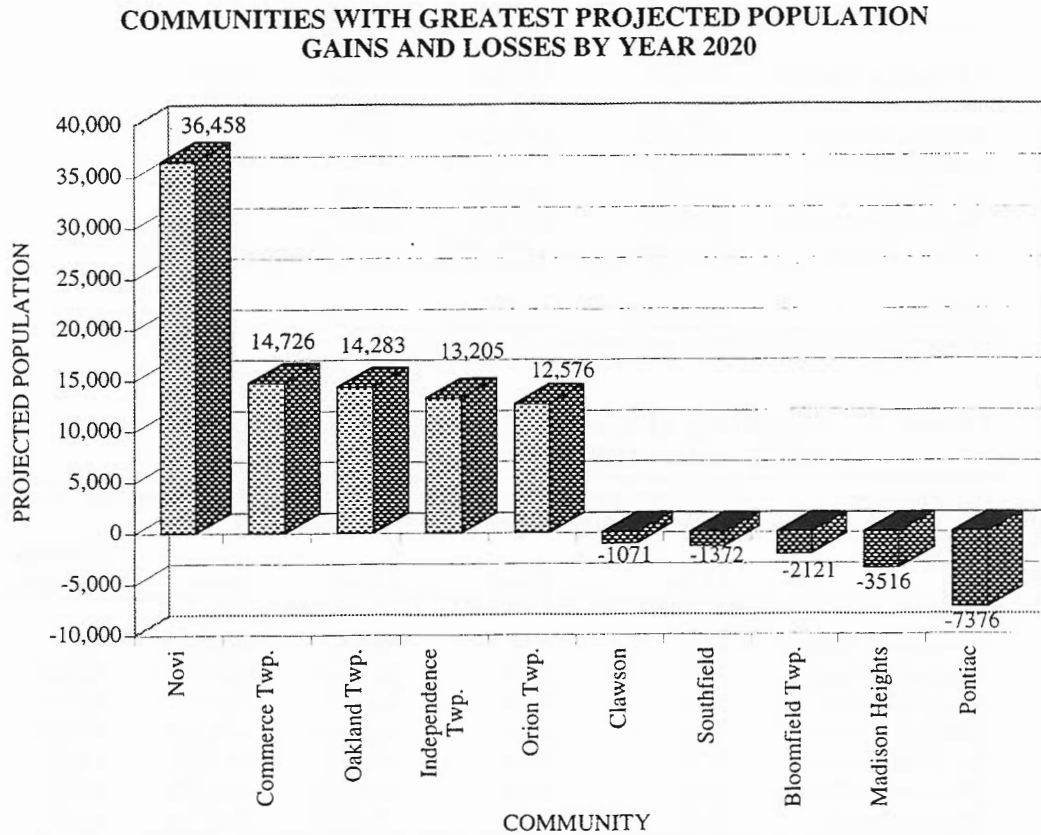
Source: SEMCOG 2020 Regional Development Forecast, 1996

The following Chart depicts the communities with the greatest projected percentage increase and decrease in population by the year 2020.

**COMMUNITIES WITH GREATEST PROJECTED PERCENTAGE OF POPULATION GAINS AND LOSSES BY YEAR 2020**



The following chart depicts communities with the greatest total population gains and losses by the year 2020.



Population projections for Oakland County indicate that the county's population is expected to grow by 18% over the next 23 years. The recreational needs of the county's residents will most likely continue to grow in the future, and will be strongest near those areas with the greatest concentrations of population.

Table 4 and 5 compare population and housing units in 1990 and 1995 for the Southeast Michigan region.

**Table 4. Population in Southeast Michigan  
1990 and 1995**

County	Population		Population Change	
	1990	1995	Number	Percent
Livingston County	115,645	133,600	17,955	15.5%
Macomb County	717,400	733,607	16,207	2.3%
Monroe County	133,600	139,550	5,950	4.5%
Oakland County	1,083,592	1,153,461	69,869	6.4%
St. Clair County	145,607	154,231	8,624	5.9%
Washtenaw County	282,937	292,609	9,672	3.4%
Wayne County	2,111,687	2,055,500	-56,187	-2.7%
Region	4,590,468	4,662,558	72,090	1.6%

Source: SEMCOG, Population and Occupied Housing Units in Southeast Michigan, 1995

**Table 5. Housing Units in Southeast Michigan  
1990 and 1995**

County	Persons per Occupied Housing Unit		Occupied Housing Units			
	1990	1995	1990	1995	Change Number	Percent
Livingston County	2.94	2.90	38,887	46,024	7,137	18.4%
Macomb County	2.68	2.57	264,991	2285,631	20,640	7.8%
Monroe County	2.84	2.77	46,508	50,447	3,939	8.5%
Oakland County	2.61	2.62	410,488	440,503	30,015	7.3%
St. Clair County	2.73	2.68	52,882	57,507	4,625	8.7%
Washtenaw County	2.50	2.58	104,528	113,223	8,695	8.3%
Wayne County	2.67	2.62	780,535	784,716	4,181	0.5%
Region	2.66	2.62	1,698,819	1,778,051	79,232	4.7%

Source: SEMCOG, Population and Occupied Housing Units in Southeast Michigan, 1995

Based on the preceding figures, the following conclusions were reached:

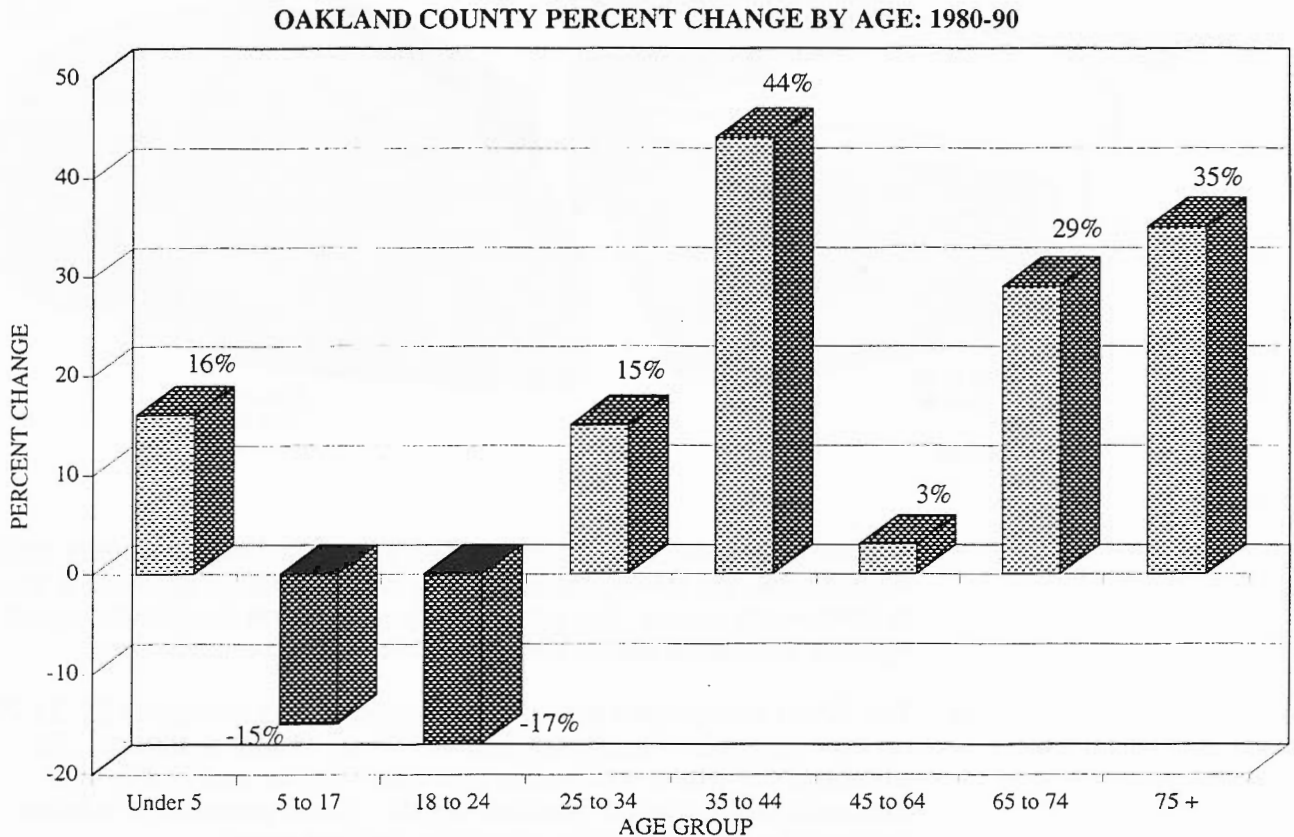
- Oakland County had the greatest increase in population between 1990 and 1995 in the entire Southeast Michigan region with over 69,800 people, while Wayne County continues to lose population.
- Oakland County experienced the largest increase in household growth with a gain of 30,000 households.
- Despite the national trend of decreasing household size, Oakland County household size increased by a small margin. According to SEMCOG (1995), part of the reason for this slight increase may be due to the types of new housing being constructed, that is single-family housing units. These units attract larger households than other types of housing units and this may explain the increase in households size.

## Population and Housing Characteristics

Based on the 1990 U.S. Census data describing selected population and housing characteristics, the following applies to the population of Oakland County and their household arrangements.

- According to the 1990 Census, the sex distribution of Oakland county residents is 52.4% female and 48.6% male.
- The minority population in Oakland County represented 12 percent of the county's total population according to 1990 census data. Oakland County became racially more diverse between 1980 and 1990. The white population increased from 942,067 to 970,674 and the black population grew from 47,962 to 77,488. Asian or Pacific Islanders more than doubled in numbers, increasing from 11,720 to 25,103 between 1980 and 1990.
- Between the 1980 and 1990 Census, the percentage of the county residents under the age of five increased by more than 10 percent, while the 5 to 17 and 18-24 age groups experienced declines in excess of 10 percent. This is indicative of an increase in the number of families with children.

The chart below depicts the changes in age profiles between 1980 and 1990.



- The 35 to 44 age bracket showed the greatest increase, and the 75+ and 65 to 75 age groups showed the second and third largest increases respectively.
- Of civilians aged 16-24 in 1990, 48,581 people or 4.5% have a work disability, and 21,438 people or 2%, have a disability which prevents them from working.

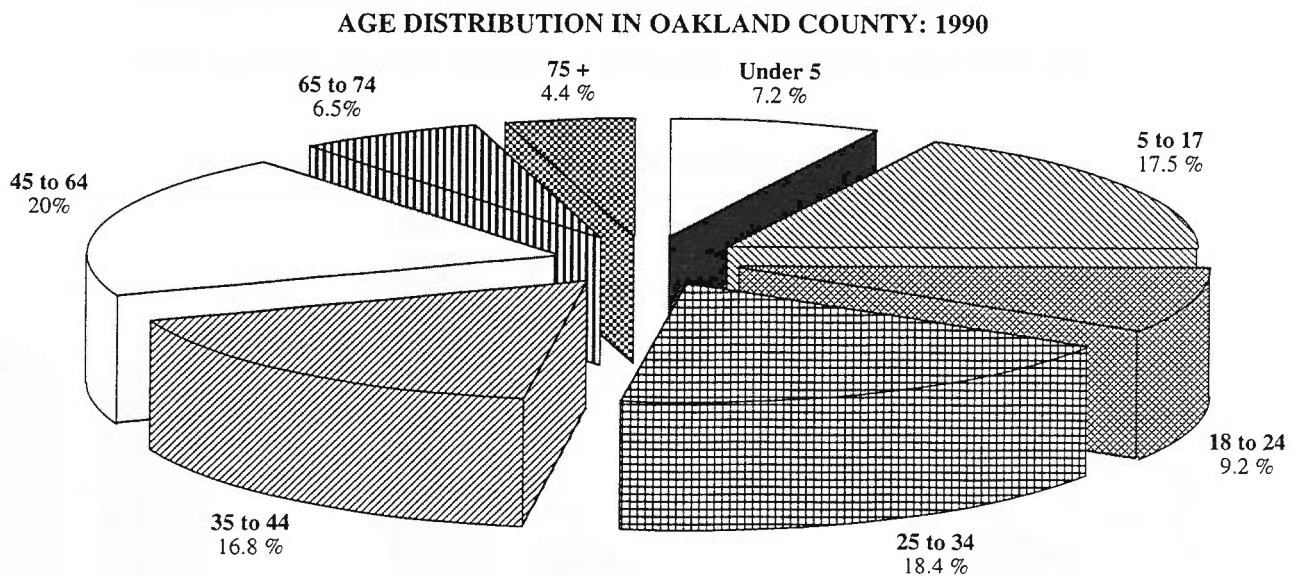
Table 6 below details age distribution between 1980 and 1990 for the County.

**Table 6. General Age Distribution, 1980-1990**

	Under 18	Over 65	Median Age
<b>1980</b>	29.0%	9.0%	30.0
<b>1990</b>	24.7%	10.9%	33.8

Source: U.S. Census, 1980 - 1990

The following chart depicts the age distribution for Oakland County from the 1990 census.

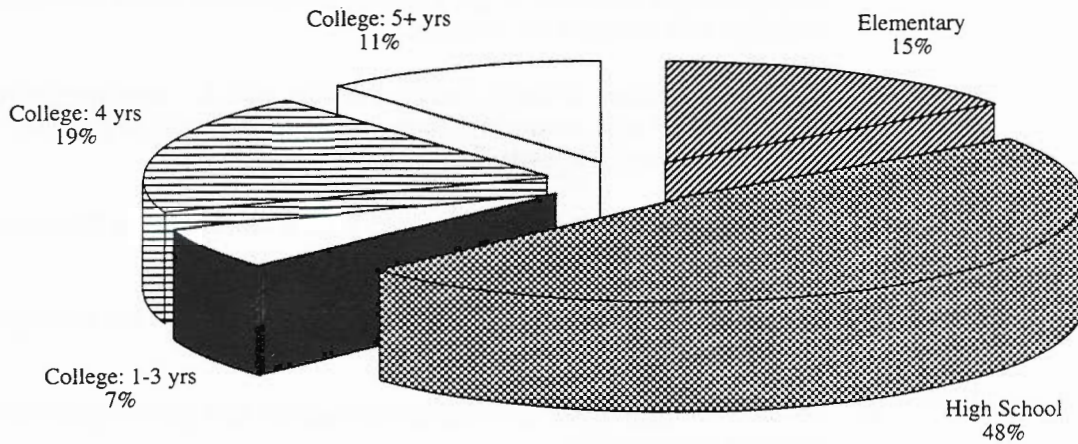


Source: SEMCOG

- Following the national trend, the median age of an Oakland County resident is on the rise; the 1990 Census reports a county median age of 33.8 years. In 1990 nearly twenty-five percent of the population is under the age of eighteen and almost eleven percent are over the age of sixty-five.
- The 1990 Census found that of those residents over the age of 25, 25.7% are only high school graduates, and 18.9% are college graduates. An additional 6.8% have received an associates degree, and 11.2% have received a professional or graduate degree. These percentages indicate Oakland County residents in general are well-educated.

The following chart depicts educational attainment for the County as a whole:

### OAKLAND COUNTY EDUCATIONAL ATTAINMENT: 1990



- The Oakland County Community Profiles provide 1995 income data for each Oakland County community. The highest median household income is found in Bloomfield Hills (\$152,320) and the lowest is found in the city of Pontiac (\$24,440). The County median household income is \$51,405.
- The number of households in Oakland County grew from 355,187 in 1980 to 410,977 in 1990. The greatest gain was in the married-couple family households which increased from 229,116 in 1980 to 291,645 in 1990. Married-couple households account for 58.5% of the total number of household reported by the 1990 Census. The number of non-family household also has increased significantly from 85,797 in 1980 to 118,843 in 1990. Forty-one percent of households have children, while 24% are homeowners who live alone.
- The total number of housing units in Oakland County was 432,684 in 1990. Over seventy percent of those units were owner-occupied. The homeowner vacancy rate was 1.4%, and the rental vacancy rate was 7.6%.
- The average number of persons per household was 2.61 at the time of the 1990 Census. The number of persons per owner-occupied units was 2.83, and 2.04 persons per renter-occupied units.
- Approximately 67% of county residential units are single family detached. An additional 22,434 units are single family attached.
- According to the 1990 U.S. Census the median value of a single family owner-occupied home in Oakland County rose sixty-four percent for \$58,100 in 1980 to \$95,400 in 1990. The average selling price of single family homes increase to \$116,962 in 1992, up \$33,035 from 1986.

## Implications

In summary, the implications of these demographic trends on recreation include:

- As population increases in the County, demand for Parks and Recreation facilities will continue to increase.
- The predominance of single family housing which consumes large amounts of vacant land will decrease the amount of land available for park and recreation related acquisitions.
- The greater presence of families with young children will impact upon the type of recreational facilities needed.
- An increasing aging population will have implications for the type of park and recreation facilities needed.
- Those with disabilities also impact the facility and park requirements in terms of accessibility.



---

# **Recreation Inventory**

---

The residents of Oakland County are able to take advantage of a variety of recreational resources on the regional, county and local levels, as well as privately owned facilities. This chapter describes these resources.

## Regional Recreation

A variety of regional recreational facilities and opportunities are available to residents of Oakland County. The map on the following page depicts the major regional parks and recreational facilities within southeastern Michigan as covered by the SEMCOG area (Figure 8). These parks are generally large facilities with large service areas which offer recreational opportunities on large tracts of land. They are often associated with natural features such as lakes or rivers.

## Oakland County Recreation

The following inventory lists facilities for state, Huron-Clinton Metropolitan Authority (HCMA), township, city, and school recreation located specifically in Oakland County (Figure 9). Only those facilities which correspond in size and scope to facilities Oakland County provides were inventoried. The recreational land and facilities inventory is meant to provide the recreational context in which Oakland County Parks belongs.

### State Parks and Recreation Areas

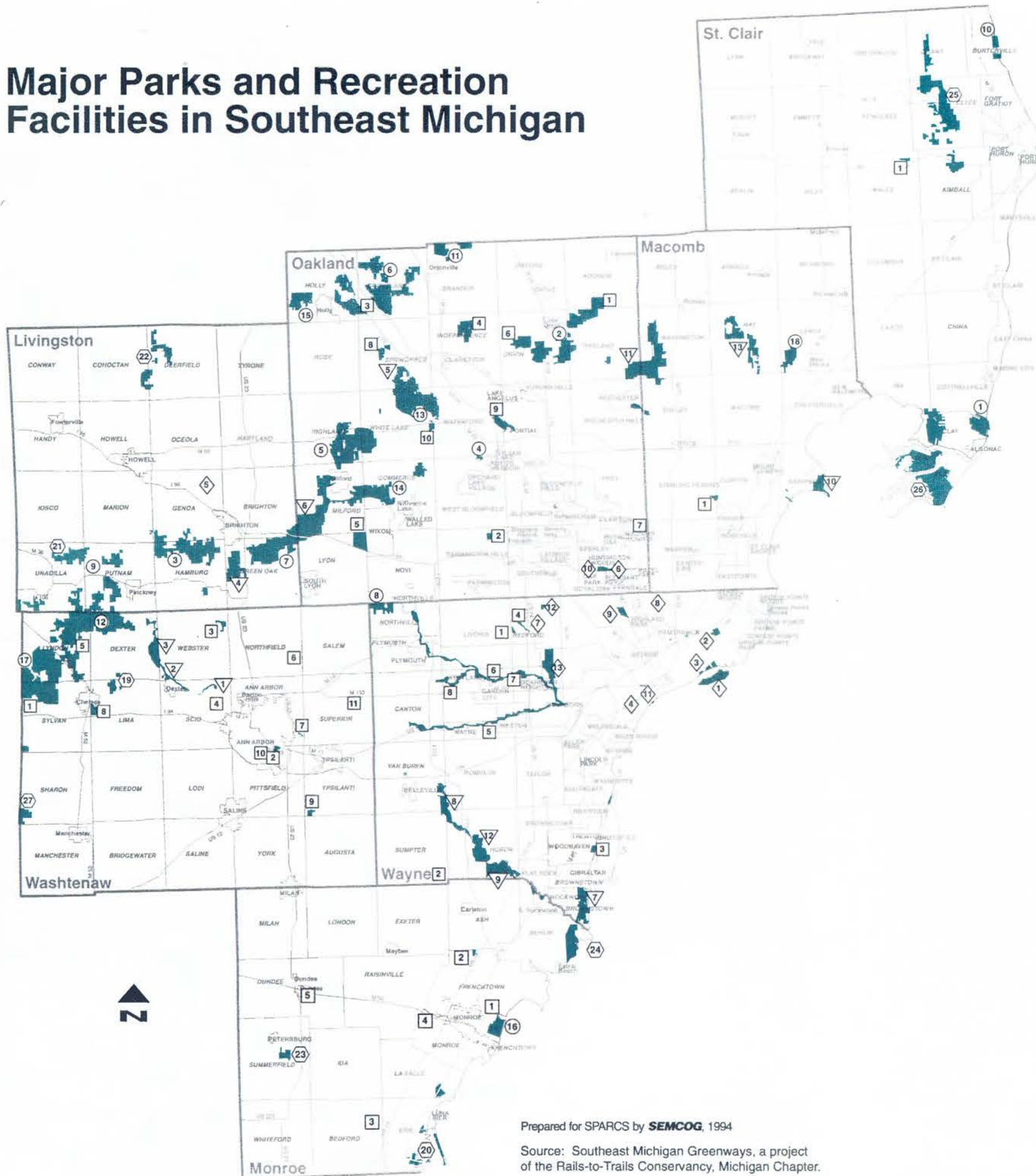
The State Department of Natural Resources owns approximately 27,666 acres of land in Oakland County. These park and recreation areas are generally located in large natural areas which have been preserved for public use and enjoyment and are distributed evenly throughout the county except in the south and southeastern communities where there are fewer facilities. The Island Lake and Ortonville Recreation Areas straddle Oakland County's border with Livingston and Lapeer Counties respectively.

The following lists briefly the state recreational lands located in Oakland County.

#### **Bald Mountain Recreation Area - 4,637 Acres**

- Hiking trails - 15 miles
- Primitive campsites - 25 sites (State Park Guide shows none)
- Group primitive campsite
- Waterfront - 72,000 linear feet
- Natural swimming area - 97,500 square feet with a beach house
- Beach House - Concession
- Open to fishing - 71,025 linear feet
- Boat launch ramp
- Boat launch parking - 26 spaces
- Picnic tables - 100 tables and shelter available
- Playground
- Open to hunting - 3,117.9 acres including a shooting range.
- Open to snowmobiles - 2,973.0 acres

# Major Parks and Recreation Facilities in Southeast Michigan



Prepared for SPARCS by **SEMCOG**, 1994  
 Source: Southeast Michigan Greenways, a project of the Rails-to-Trails Conservancy, Michigan Chapter.

## Michigan State Parks and Recreation Areas (County Location)

- 1 Algonac (St.Clair)
- 2 Bald Mountain (Oakland)
- 3 Brighton (Livingston)
- 4 Dodge #4 (Oakland)
- 5 Highland (Oakland)
- 6 Holly (Oakland)
- 7 Island Lake (Livingston)
- 8 Maybury (Wayne)
- 9 Lakelands Trail (Livingston, Oakland)
- 10 Lakeport (St. Clair)
- 11 Ortonville (Oakland)
- 12 Pinckney (Livingston, Washtenaw)
- 13 Pontiac Lake (Oakland)
- 14 Proud Lake (Oakland)
- 15 Seven Lakes (Oakland)
- 16 Sterling (Monroe)
- 17 Waterloo - part (Washtenaw)
- 18 Wetzel - undeveloped (Macomb)

## Michigan State Wildlife Areas (County Location)

- 19 Chelsea (Washtenaw)
- 20 Erie (Monroe)
- 21 Gregory (Livingston)
- 22 Oak Grove (Livingston)
- 23 Petersburg (Monroe)
- 24 Pointe Mouillee (Monroe)
- 25 Port Huron (St. Clair)
- 26 St. Clair Flats (St. Clair)
- 27 Sharonville (Washtenaw)

## Huron-Clinton Metroparks (County Location)

- 1 Delhi (Washtenaw)
- 2 Dexter-Huron (Washtenaw)
- 3 Hudson Mills (Washtenaw)
- 4 Huron Meadows (Livingston)
- 5 Indian Springs (Oakland)
- 6 Kensington (Oakland, Livingston)
- 7 Lake Erie (Wayne)
- 8 Lower Huron (Wayne)
- 9 Oakwoods (Wayne)
- 10 Metro Beach (Macomb)
- 11 Stony Creek (Macomb, Oakland)
- 12 Willow (Wayne)
- 13 Wolcott Mill (Macomb)

## Wayne County Parks

- 1 Bell Creek
- 2 Crosswinds Marsh - undeveloped
- 3 Elizabeth
- 4 Lola Valley
- 5 Lower Rouge
- 6 Hines Parkway
- 7 Varren Valley Golf Course
- 8 Jm. Holliday Forest Preserve

## Oakland County Parks

- 1 Addison Oaks
- 2 Glen Oaks
- 3 Groveland Oaks
- 4 Independence Oaks
- 5 Lyon Oaks - undeveloped
- 6 Orion Oaks
- 7 Red Oaks
- 8 Springfield Oaks
- 9 Waterford Oaks
- 10 White Lake Oaks

## Macomb County Parks

- 1 Freedom Hill

## Washtenaw County Parks

- 1 Cavanaugh Lake
- 2 County Farm
- 3 Independence Lake
- 4 Osborn Mills
- 5 Park Lyndon
- 6 Park Northfield
- 7 Parker Mill
- 8 Pierce Lake
- 9 Rolling Hills
- 10 Recreation Center
- 11 Park Superior

## Monroe County Parks

- 1 Heck
- 2 Nike
- 3 Vienna
- 4 Waterloo
- 5 West County - undeveloped

## St. Clair County Parks

- 1 Goodells

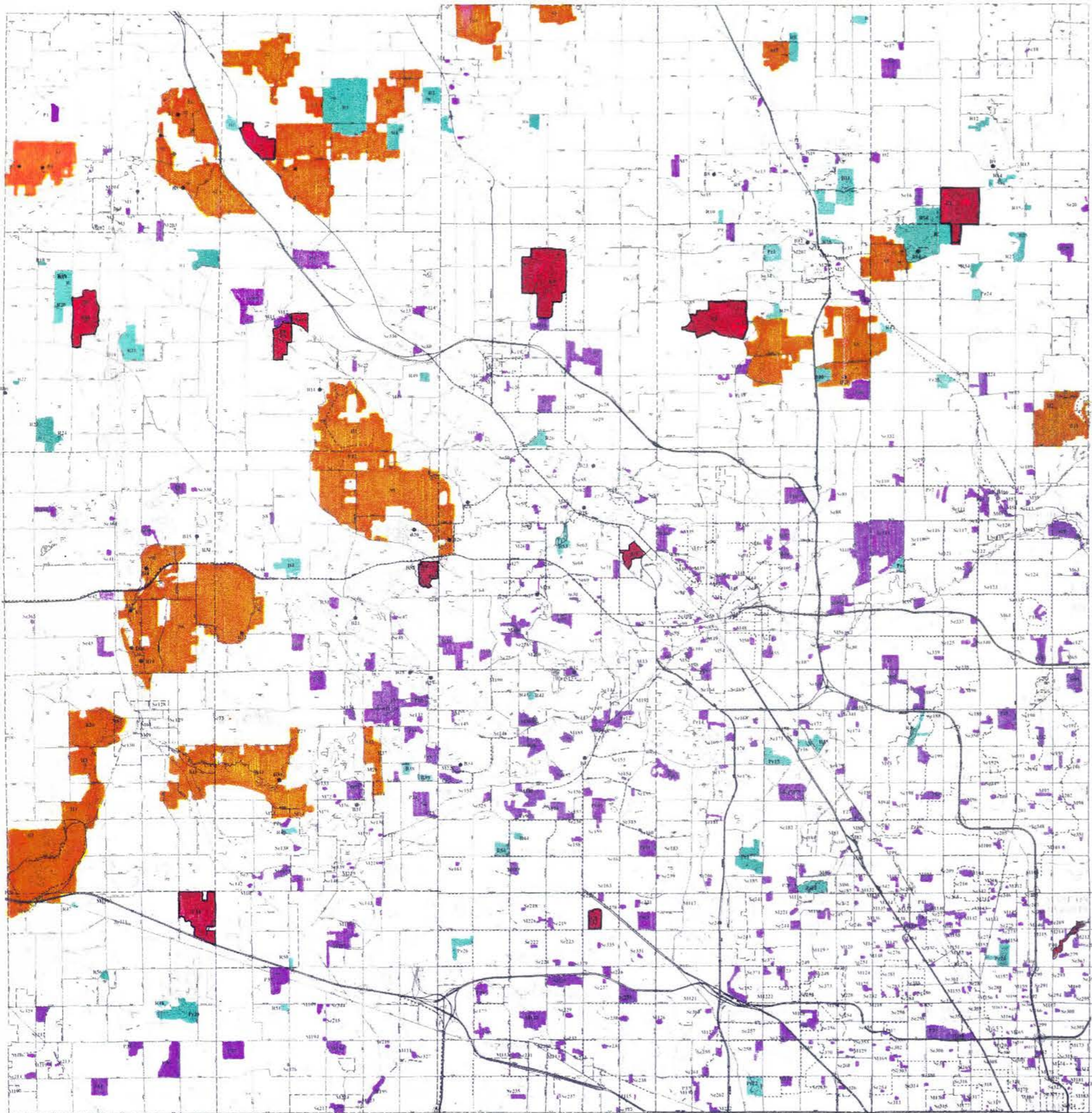
## Detroit Parks

- 1 Belle Isle
- 2 Chandler
- 3 Chene
- 4 Clark Park
- 5 Detroit Recreation Camp
- 6 Detroit Zoo
- 7 Eliza Howell
- 8 Farwell Playfield
- 9 Palmer
- 10 Rackham Golf Course
- 11 Riverside
- 12 Rogell Golf Course
- 13 Rouge Park & Golf Course

**Figure 8**

## Regional Recreation

Carlisle/Wortman Associates, Inc.  
 Ann Arbor, Michigan



**LEGEND**

- Oakland County Parks
- State Parks, Recreation Areas, and Huron-Clinton Metro Parks
- Schools, Township, and Municipal Parks
- Private Recreation Facilities

**Figure 9**

**Oakland County Recreation**

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

**Dodge No. 4 State Park - 139 Acres**

- Waterfront - 9,300 linear feet
- Natural swimming area - 75,000 square feet
- Beach House and Concession
- Open to fishing - 8,550 linear feet
- Boat launch ramp
- Boat launch parking - 80 spaces
- Picnic tables - 175 tables and shelter
- Playground
- Open to snowmobiles - 130 acres

**Highland Recreation Area - 5,524 Acres**

- Cross country trails - 10 miles
- Nature trails - 1 mile
- Horseback trails - 15 miles
- Hiking trails - 4 miles
- Primitive campsites - 30 total group primitive campsites available
- Waterfront - 132,000 linear feet
- Natural swimming area - 26,000 square feet
- Open to fishing - 131,740 linear feet
- Boat launch ramps - 5
- Boat launch ramp parking - 85 spaces
- Picnic tables - 127 tables and shelter
- Playground
- Open to hunting - 3,781.9 acres
- Open to snowmobiles - 3,703 acres

**Holly Recreation Area - 7,670 Acres**

- Horseback trails - 8 miles
- Hiking trails - 18 miles
- Modern camp sites - 161 sites, cabins and tent rentals available.
- Waterfront - 41,850 linear feet
- Natural swimming area - 136,500 square feet
- Beach House and Concession
- Open to fishing - 29,235 linear feet (5 fishing sites)
- Boat launch ramps - 4
- Boat launch ramp parking - 118 spaces
- Picnic Area - 266 tables and shelter
- Playground
- Open to hunting - 7,475.5 Acres
- Open to snowmobiling - 2,446 acres

**Island Lake Recreation Area - 176 Acres in Oakland County  
(3,466 Total Acres)**

- Primitive campsites - 45
- Group campsites - cabins available
- Picnic Area - Picnic Shelter
- Playground
- Beach House and Concession
- Boat Launch
- Swimming Area
- Open to hunting
- Open to fishing
- Open to snowmobiling
- Hiking trails

**Ortonville Recreation Area - 972 acres in Oakland County (4,875  
Total Acres)**

- Primitive campsites - 25
- Organizational camping
- Cabin Rental
- Picnic Area - Picnic Shelter
- Playground
- Beach House
- Swimming Area
- Open to hunting
- Open to fishing
- Open to snowmobiles
- Cross country skiing
- Horseback riding

**Pontiac Lake Recreation Area - 3,700 Acres**

- Sledding hill
- Horseback trails - 13 miles and a riding stable
- Hiking
- Modern campsites - 176 sites
- Organization Camp
- Tent Rentals
- Waterfront - 34,420 linear feet
- Natural swim area - 150,000 square feet
- Beach House
- Open to fishing - 349,750 linear feet
- Boat launch ramp
- Boat launch parking - 80 spaces
- Boat concession area
- Picnic Area - Picnic shelter
- Playground
- Open to hunting - 3,667.7 acres including archery & rifle ranges
- Open to snowmobiles - 3,586 acres

**Proud Lake Recreation Area - 3,614 Acres**

- Senior citizen center
- Cross-country trails - 8 Miles
- Hiking
- Nature trails - 5 Miles
- Horseback trails - 6 Miles
- Modern campsites - 130
- Cabins available
- Waterfront - 42,000 linear feet
- Beach House and concession
- Natural swimming area - 50,000 square feet and a beach house
- Open to fishing - 41,500 linear feet
- Launch and concession
- Boat launch - 2
- Boat launch ramp parking - 25 spaces
- Picnic Area - 83 tables and shelter
- Open to hunting - 2,076.8 acres
- Open to snowmobiles - 3,035 acres

**Rochester-Utica Rec. Area - 227.3 acres in Oakland County  
(1,334 Total Acres)**

- Organization Camping
- Picnic Shelter
- Open to fishing
- Hiking trails
- Cross country skiing
- Playground

**Seven Lakes State Park - 1,377.8 Acres**

- Waterfront - 34,180 linear feet
- Natural swimming area - 75,000 square feet
- Beach House
- Open to shore fishing - 2,076.8 linear feet
- Open to hunting - 1,377.8 acres
- Open to snowmobiles - 1,374.0 acres
- Hiking trails
- Cross country skiing

## **Huron-Clinton Metroparks**

The Huron-Clinton Metropolitan Authority (HCMA) was named after the two longest rivers within its boundaries. The Authority's major endeavor is the preservation of the scenic beauties and recreational resources along the Huron and Clinton Rivers for public use. Since its inception, it has created large public parks located within the environs of the best natural resources possible, while giving consideration to population trends within the district and minimizing disruption of existing land use.

The HCMA owns approximately 7,196 acres of land in Oakland County (See Figure 9). The following park lands are totally within the county's boundaries:

### **Indian Springs Metropark (2,215 acres)**

Dedicated in June 1982, the park is located in Springfield and White Lake Townships about five miles southwest of Clarkston. The park is situated at the headwaters of the Huron River and encompasses the Huron Swamp which is the largest undisturbed natural area remaining in southeastern Michigan. Most of the park activities focus on the preservation and interpretation of the natural environment.

- Playfield
- Winter sports
- Nature trails (6± miles)
- Interpretive building
- Picnic areas
- Paved trails (8 miles)
- 18-hole golf course and driving range and golf starter building

### **Kensington Metropark (4,350 acres total, 3,882 acres in Oakland County)**

- Ball diamonds - 9
- 18-hole golf course
- Sledding hills - 3
- Natural ice rinks - 73,000 square feet
- Cross-country trails - 13.9 miles
- Nature trails - 5.5 miles
- Bike-hike trail - 8 miles
- Fitness trail - 1.25 miles
- Group camping
- Waterfront
- Natural swim area
- Shore fishing
- Pier fishing - 1,500 linear feet
- Boat launch ramps - 2
- Boat launch parking - 250
- Marina slips - 141
- Livery boats - 95
- Nature study area - 2,700 acres
- Interpretive building
- Picnic Area
- Playground
- Farm center - 100 acres



**Stony Creek Metropark (4,461 acres total, 1,214 acres in Oakland County)**

- Boat launch
- Boat launch parking - 150 cars (fee)
- Boat storage
- Hiking and biking trails - 7.5 miles
- Bike rental
- Interpretive Center
- Swimming
- Group camping
- Fishing
- Picnicking
- Cross-Country trails
- 18-hole golf course
- Ice skating
- Sledding
- Fitness trail - 2.6 miles

## Township, Municipal, and School Recreation\*

The facilities provided by Oakland County Townships and Municipalities impact the Oakland County Recreation program. The following lists the community owned facilities which affect demand for county facilities. In addition, school facilities have been provided. Joint use of facilities has become the foundation for many parks and recreation programs in the area. Although some school facilities may not be available to the general public, these facilities fulfill the needs of the student population.

### Addison Township

#### Public Facilities:

No community owned facilities

#### School Facilities:

Kingsbury School (private)  
Leonard Elementary  
Lakeville Elementary  
Hamilton-Parsons Elementary

- 2 Picnic areas
- 1 Picnic shelter
- 1 Senior citizen center
- 1 Recreation Center

#### School Facilities:

Brandon High  
Belle Ann Elementary

### Bloomfield Township

#### Public Facilities:

All facilities owned by school district

#### School Facilities:

Fox Hills  
Bloomfield Hills School Farm  
Hickory Grove Elementary  
Nature Center  
Lahser High  
Roeper City-City Schools (priv.)  
East Hills Junior  
Kensington Academy (private)  
Eastover Elementary  
Andover High  
Way Elementary  
Academy of Sacred Heart (priv.)  
Harlan Elementary  
Bloomfield Hills Middle  
Conant Elementary  
Covington Middle School  
West Maple Middle School  
Br. Rice-Marian High (private)

### Commerce Township

#### Public Facilities:

- 16 Ball diamonds
- 1 Basketball court
- 2 Tennis courts (no lights)
- 2 Nature trails
- 1 Picnic shelter
- 1 Cross country ski area
- 1 Outdoor recreation center
- 1 Historic facility
- 1 Recreation Center

#### School Facilities:

Commerce Elementary  
Smart Junior High  
Glengary Elementary  
Walled Lake Central High  
Oakley Park Elementary  
SW Oakland Voc. Ed. Ctr.  
Walled Lake Western High

### Groveland Township

#### Public Facilities:

No community owned facilities

#### School Facilities:

None.

### Brandon Township

#### Public Facilities:

None.

\* This information was partially updated from MDNR, Public Recreation Facility Inventory Report Summary, 1985.

## **Highland Township**

### Public Facilities:

- 6 Soccer fields
- 1 Senior citizen center

### School Facilities:

Spring Mills Elementary  
Apollo Elementary  
Highland Junior  
Milford Senior

## **Holly Township**

### Public Facilities:

- 2 Soccer fields
- 1 Beach area

### School Facilities:

None.

## **Independence Township**

### Public Facilities:

- 5 Ball diamonds
- 6 Soccer fields
- 6 Volleyball courts
- 6 Basketball courts
- 4 Tennis courts (no lights)
- 4 Horseshoe pits
- 2 Shuffleboard courts
- 1 Boat launch-fishing area
- 1 Beach area
- 3 Play structures
- 1 Picnic area
- 1 Picnic shelter
- 1 Exercise-fitness trail
- 1 Senior citizen center

### School Facilities:

Bailey Lake Elementary  
Clarkston Junior High  
Clarkston Senior High  
Clarkston Elementary  
Pine Knob Elementary  
Sashabaw Junior  
North Sashabaw Elementary  
Clarkston Comm. Learning Ctr.

## **Milford Township**

### Public Facilities:

No community owned facilities

### School Facilities:

None.

## **Lyon Township**

### Public Facilities:

- 5 Ball diamonds
- 1 Soccer field
- 1 Senior citizen center

### School Facilities:

New Hudson Elementary  
Bartlett Elementary  
Sayre Elementary

## **Novi Township**

### Public Facilities:

No community owned facilities

### School Facilities:

None.

## **Oakland Township**

### Public Facilities:

- 1 Exercise-fitness trail
- 1 Cross country ski area

### School Facilities:

Baldwin Elementary

## **Orion Township**

### Public Facilities:

- 6 Ball diamonds
- 3 Soccer fields
- 1 Volleyball court
- 2 Basketball courts
- 3 Horseshoe pits
- 2 Shuffleboard courts
- 1 Beach area
- 2 Play structures

- 1 Picnic area
- 1 Picnic shelter
- 2 Exercise-fitness trails
- 2 Recreation Centers

School Facilities:

- Orion-Oxford 7th Day Advent.  
(priv.)
- Pine Tree Elementary
- Webber Elementary
- Lake Orion Junior-Senior High
- Lake Orion Middle
- Carpenter Elementary
- St. Joseph (private)

**Oxford Township**

Public Facilities:

- 8 Ball diamonds
- 4 Soccer fields
- 4 Tennis courts (lights)
- 2 Horseshoe pits
- 1 Boat launch-fishing area
- 1 Beach area
- 3 Play structures
- 3 Picnic shelters
- 1 Exercise-fitness trail
- 3 Food services

School Facilities:

- Thomas Elementary
- Oxford Middle School
- Clear Lake Elementary
- Dominician Academy (private)

**Rose Township**

Public Facilities:

No facilities reported.

School Facilities:

None.

**Royal Oak Township**

Public Facilities:

None.

School Facilities:

Grant Elementary

**Springfield Township**

Public Facilities:

- 7 Ball diamonds
- 1 Soccer field
- 1 Volleyball court
- 1 Basketball court
- 2 Tennis courts (no lights)
- 4 Horseshoe pits
- 2 Shuffleboard courts
- 1 Boat launch-fishing area
- 1 Beach area
- 1 Golf course
- 2 Nature trails
- 2 Play structures
- 4 Picnic areas
- 3 Picnic shelters
- 1 Exercise-fitness trail
- 1 Senior citizen center

School Facilities:

- Davisburg Elementary
- Andersonville Elementary
- Colombiere College (private)

**Waterford Township**

Public Facilities:

- 10 Ball diamonds
- 1 Soccer field
- 1 Basketball court
- 1 Boat launch-fishing area
- 3 Nature trails
- 6 Play structures
- 1 Ice skating rink
- 2 Picnic areas
- 3 Picnic shelters
- 2 Exercise-fitness trails
- 1 Historic facility
- 1 Sports complex

School Facilities:

- Montgomery Develop. Center
- Lotus Lake Elementary
- Schoolcraft Elementary
- Our Lady of the Lakes (private)
- McVittie Elementary
- Grayson Elementary

Jayna Adams Elementary  
 Pontiac Lake Elementary  
 Williams Lake Elementary  
 Waterford Kettering High  
 Pierce Junior High  
 Monteith Elementary  
 Drayton Plains Elementary  
 Mason Junior High  
 Cooley Elementary  
 Beaumont Elementary  
 Pontiac Junior Academy (private)  
 Riverside Elementary  
 Waterford Community Center  
 Lutes Elementary  
 Sandburg Elementary  
 Leggett Elementary  
 Cray Junior High  
 Waterford Mott High  
 Crescent Lake Elementary  
 Waterford Pohl  
 Oakland C. C.-Highland Lakes  
 Four Towns Elementary  
 Haviland Elementary  
 Burt Elementary  
 Donelson Elementary  
 St. Benedict's Elementary (priv.)  
 Lambert Elementary  
 Silver Lake Elementary  
 Hawthorne Elementary

### **West Bloomfield Township**

#### **Public Facilities:**

- 6 Ball diamonds
- 1 Soccer field
- 1 Basketball court
- 10 Tennis courts (no lights)
- 2 Nature trails
- 3 Play structures
- 2 Sledding hills
- 1 Ice skating rink
- 2 Picnic areas
- 1 Picnic shelter
- 1 Exercise-fitness trail
- 2 Cross country ski areas
- 1 Outdoor education center
- 1 Food service

#### **School Facilities:**

Keith Elementary  
 Scotch Elementary  
 Twin Beach Elementary  
 Pine Lake Elementary

Lone Pine Elementary  
 West Hills Middle School  
 West Bloomfield High  
 Green Elementary  
 Orchard Lake Middle  
 Doherty Elementary  
 Walnut Elementary  
 Maple Elementary  
 Ealy Elementary

### **White Lake Township**

#### **Public Facilities:**

- 1 Ball diamond
- 1 Soccer field
- 2 Recreation Centers

#### **School Facilities:**

Lee Brooks Elementary  
 White Lake Junior  
 Lakeland High  
 Oxbow Elementary  
 Dublin Elementary  
 St. Patrick's Elementary (private)  
 D. Houghton Elementary

### **City of Auburn Hills**

#### **Public Facilities:**

- 1 Ball diamond
- 3 Tennis courts (no lights)
- 1 Shuffleboard
- 1 Disc Golf - 9 holes
- 1 Canoe launch
- 2 Fishing areas
- 1 Golf course - 18 holes
- 2 Nature trail
- 3 Play structure
- 4 Picnic shelters
- 1 Exercise-fitness trail
- 1 Historic facility
- 1 Senior citizen's center
- 1 Recreation Center

#### **School Facilities:**

Rogers Elementary  
 Oakland C. C.-Auburn Hills  
 Graham Elementary  
 Avondale Senior  
 Sacred Heart (private)

## City of Berkley

### Public Facilities:

- 9 Ball diamonds
- 2 Basketball courts
- 2 Tennis courts (no lights)
- 8 Tennis courts (lights)
- 19 Horseshoe pits
- 5 Play structures
- 1 Ice skating rink
- 3 Picnic areas
- 1 Senior citizen center
- 1 Recreation Center

### School Facilities:

Pattengill Elementary  
Hamilton Elementary  
Angell Elementary  
Berkley Special Education  
Anderson Middle  
Our Lady of LaSalette (private)  
Berkley High

## City of Birmingham

### Public Facilities:

- 11 Ball diamonds
- 4 Football fields
- 22 Tennis courts (no lights)
- 1 Boat launch/fishing area
- 2 Golf courses
- 6 Play structures
- 2 Ice skating rinks
- 1 Picnic area
- 1 Cross country ski area
- 1 Sports complex
- 1 Food service

### School Facilities:

Seaholm Elementary  
Quarton Elementary  
Meadow Lake Elementary  
Midvale Elementary  
Pierce Elementary  
Derby Elementary  
St. Columban's (private)  
Our Shepard Lutheran (private)  
Schalm Elementary

## City of Bloomfield Hills

### Public Facilities:

No community owned facilities.

### School Facilities:

Vaughan Elementary  
Cranbrook Schools (private)

## City of Clawson

### Public Facilities:

- 4 Ball diamonds
- 6 Soccer fields
- 2 Volleyball courts (sand)
- 1 Football field
- 1 Multi-purpose court
- 2 Tennis courts (no lights)
- 6 Tennis courts (lights)
- 4 Horseshoe pits
- 2 Shuffleboard courts
- 1 Swimming pool
- 3 Play structures
- 2 Ice skating rink
- 3 Picnic areas
- 1 Picnic shelter
- 1 Exercise fitness trail
- 1 Food service
- 1 Senior citizens center
- 1 Recreation Center

### School Facilities:

Clawson Middle  
Kenwood Elementary  
Clawson Middle

## City of Farmington

### Public Facilities:

See Farmington Hills

### School Facilities:

Longrace Elementary  
Flanders Elementary  
Our Lady of Sorrows (private)  
Farmington High

## City of Farmington Hills

### Public Facilities:

- 20 Ball diamonds
- 12 Soccer fields
- 4 Basketball courts
- 6 Tennis courts (no lights)
- 6 Horseshoe pits
- 1 Golf course
- 2 Nature trail
- 3 Play structures
- 2 Sledding hills
- 2 Ice skating rinks
- 7 Picnic areas
- 6 Picnic shelters
- 1 Cross country ski area
- 1 Indoor Pool/Gym
- 6 Meeting Rooms and Offices
- 1 Senior Center/ Kitchen

### School Facilities:

Forest Elementary  
North Farmington High  
Warner Middle  
Fairview Center  
Wooddale Elementary  
Kenbrook Elementary  
Dunckel Middle  
Oakland C. C. -Orchard Ridge  
Harrison High  
Beachview Elementary  
Mercy High (private)  
Alameda Center  
East Middle  
Larkshire Elementary  
Power Middle  
Gill Elementary  
William Grace Elementary

## City of Ferndale

### Public Facilities:

- 12 Ball diamonds
- 9 Soccer fields
- 2 Basketball courts
- 4 Tennis courts (no lights)
- 9 Tennis courts (lights)
- 6 Horseshoe pits
- 9 Play structures
- 1 Sledding hill
- 9 Picnic areas

- 1 Picnic shelter
- 1 Exercise-fitness trail
- 1 Food service

### School Facilities:

Coolidge Junior  
Harding Elementary  
Edison Elementary  
Ferndale High  
Washington Elementary  
Taft Elementary  
Wilson Elementary

## City of Hazel Park

### Public Facilities:

- 5 Ball diamonds
- 4 Tennis courts (no lights)
- 2 Play structures
- 2 Picnic areas

### School Facilities:

St. Mary Magdalen (private)  
Hazel Park High  
Hoover Elementary  
Webster Elementary  
Becher Junior  
United Oaks Elementary  
Ford Elementary

## City of Huntington Woods

### Public Facilities:

- 4 Ball diamonds
- 1 Soccer field
- 7 Tennis courts (no lights)
- 2 Horseshoe pits
- 2 Frisbee courts
- 1 Swimming pool
- 2 Play structures
- 1 Sledding hill
- 1 Picnic shelter
- 1 Exercise-fitness trail
- 1 Recreation Center

### School Facilities:

Burton Elementary

## **City of Keego Harbor**

### Public Facilities:

- 2 Horseshoe pits
- 1 Senior citizens center

### School Facilities:

Roosevelt Elementary

## **City of Lake Angelus**

### Public Facilities:

- 3 Tennis courts (no lights)

### School Facilities:

None.

## **City of Lathrup Village**

### Public Facilities:

- 1 Senior citizen center
- 1 Recreation Center

### School Facilities:

Southfield Lathrup High  
McIntyre Elementary

## **City of Madison Heights**

### Public Facilities:

- 31 Ball diamonds
- 4 Soccer fields
- 11 Basketball courts
- 9 Tennis courts (no lights)
- 1 Tennis courts (lights)
- 10 Shuffleboard courts
- 1 Nature Center and trail
- 12 Play structures
- 2 Sledding hill
- 6 Ice skating rinks
- 12 Picnic areas
- 2 Picnic shelters
- 3 Exercise-fitness trails
- 4 Food service
- 1 Senior citizen center
- 4 Swimming pools

### School Facilities:

Bishop Foley (private)  
Lamphere High  
Hiller Elementary  
Lessenger Elementary  
Page Middle  
Simonds Elementary  
Edison Elementary  
Edmonson Elementary  
Madison High  
Schoenhals Elementary  
Wilkinson Middle  
Halfman Elementary

## **City of Northville**

### Public Facilities:

No community owned facilities.

### School Facilities:

Northville Junior/Senior High

## **City of Novi**

### Public Facilities:

- 14 Ball diamonds
- 8 Soccer fields
- 8 Tennis courts (no lights)
- 1 Beach area
- 6 Play structures
- 9 Picnic areas
- 6 Picnic shelters
- 6 Volleyball courts(sand)
- 1 Cross country ski area
- 1 Recreation Center

### School Facilities:

Novi Middle  
Novi Woods Elementary  
Orchard Hills Elementary

## **City of Oak Park**

### Public Facilities:

- 2 Basketball courts
- 2 Tennis courts (no lights)
- 18 Tennis courts (lights)
- 12 Shuffleboard courts
- 1 Swimming pool
- 1 Miniature golf course
- 1 Nature trail
- 5 Play structures



- 2 Sledding hills
- 3 Ice skating rinks
- 1 Picnic area
- 2 Exercise-fitness trails
- 2 Food service
- 1 Recreation Center

School Facilities:

- Norup Middle-Tyndall Center
- Hebrew Academy (private)
- Pepper Elementary
- Oak Park High
- Our Lady of Fatima (private)
- Francis Scott Key Elementary
- E. Roosevelt Middle
- Best Junior High
- Jackson Elementary
- Einstein Elementary
- Lessenger Elementary
- Jefferson Elementary

**City of Orchard Lake Village**

Public Facilities:

- 1 Nature sanctuary

School Facilities:

- Our Lady of Refuge (private)
- Orchard Lake St. Mary's (priv.)
- Abbott Middle School
- Apple Island (W. Bloomfield Schools)

**City of Pleasant Ridge**

Public Facilities:

- 2 Ball diamonds
- 2 Soccer fields
- 1 Football field
- 2 Basketball courts
- 1 Tennis courts (no lights)
- 1 Tennis courts (lights)
- 1 Swimming pool
- 5 Play structures
- 3 Picnic shelters
- 1 Recreation Center

School Facilities:

No facilities.

**City of Pontiac**

Public Facilities:

- 14 Ball diamonds
- 29 Basketball courts
- 6 Tennis courts (no lights)
- 4 Tennis courts (lights)
- 2 Boat launch-fishing areas
- 1 Golf course
- 1 Swimming pool
- 10 Play structures
- 10 Picnic areas
- 4 Recreation Centers

School Facilities:

- Weaver Elementary
- Kennedy Junior
- Malkim Special Education
- Pontiac Northern High
- Madison Junior
- Pontiac Catholic
- Alcott Elementary
- Owen Elementary
- Lebaron Elementary
- Emerson Elementary
- Lincoln Junior High
- Wisner Elementary
- McCarroll Continuing Education
- Mark Twain Elementary
- Herrington Elementary
- Washington Junior High
- Webster Elementary
- Pontiac Central
- Bethune Elementary
- Bagley Elementary
- Longfellow Elementary
- Frost Elementary
- Perdue Continuing Education
- Jefferson Junior High
- Franklin Elementary

**City of Rochester**

Public Facilities:

- 2 Ball diamonds
- 1 Boat launch-fishing area
- 1 Ice skating rink
- 1 Cross country ski area
- 1 Outdoor education center
- 1 Food service
- 1 Senior citizen center

School Facilities:

- Holy Family School (private)
- McGregor Elementary
- St. John's Lutheran (private)
- Rochester Community Schools

**City of Rochester Hills**

Public Facilities:

- 8 Ball diamonds
- 7 Soccer fields
- 3 Volleyball courts
- 4 Basketball courts
- 3 Tennis courts (lights)
- 1 Disc golf course
- 1 Boat launch-fishing area
- 1 Beach area
- 1 Golf course
- 3 Nature trail
- 5 Play structures
- 1 Ice skating rink
- 6 Picnic areas
- 1 Exercise-fitness trail
- 2 Cross country ski areas
- 1 Outdoor education center
- 1 Historic facility
- 2 Food service
- 1 In-line skating area
- 1 Mountain bike course
- 1 Batting cage
- 2 Multi-purpose field

School Facilities:

- Adams High
- Van Hoosen Junior
- Long Meadow Elementary
- North Hill Elementary
- Oakland University
- Meadow Brook Elementary
- West Junior High
- Rochester High
- University Hills Elementary
- North Central Christian College
- Hamlin Elementary
- Avon School
- Avondale Junior High
- Brooklands Elementary
- Reuther Junior High

**City of Royal Oak**

Public Facilities:

- 15 Ball diamonds
- 7 Soccer fields
- 3 Football fields
- 9 Basketball courts
- 15 Tennis courts (sites,no lights)
- 2 Horseshoe pits
- 2 Disc golf course
- 2 Nature trails
- 2 Volleyball courts (sand)
- 26 Play structures
- 1 Ice arena
- 5 Ice skating rinks
- 2 Picnic areas
- 4 Picnic shelters
- 3 Exercise-fitness trails
- 1 Steam train
- 1 Civic center pavilion

School Facilities:

- Upton Elementary
- Twain Elementary
- Shrine High (private)
- Parker Elementary
- Starr Elementary
- Kimball High
- Oak Ridge Elementary
- Churchill Junior
- Addams Elementary/Junior
- Northwood Elementary
- Dondero High
- Whittier Elementary
- Lockman Elementary
- Helen Keller Junior
- St. Dennis (private)
- Lincoln Elementary
- Oakland Elementary

**City of Southfield**

Public Facilities:

- 19 Ball diamonds
- 8 Soccer fields
- 4 Volleyball court(sand)
- 4 Basketball court
- 9 Tennis courts (no lights)
- 9 Tennis courts (lights)
- 9 Shuffleboard courts
- 3 Swimming pools

- 2 Golf courses
- 3 Nature trails
- 11 Play structures
- 1 Sledding hill
- 3 Ice skating rinks
- 9 Picnic areas
- 5 Picnic shelter
- 4 Exercise-fitness trails
- 6 Walking trails
- 3 Historic facilities
- 4 Food services
- 4 Sports complexes
- 1 Art center
- 1 Civic center pavilions
- 4 Recreation Centers

School Facilities:

- Child Development Center
- St. Bedes (private)
- Vandenberg Elementary
- Leonard Elementary
- Adlai Stevenson Elementary
- Birney Middle
- McIntyre Elementary
- Thompson Middle
- Schoenhals Elementary
- Yeshivath Beth Yehudah (priv.)
- Adler Elementary
- St. Michaels (private)
- Southfield High
- Eisenhower Elementary
- Kennedy Elementary
- Levey Middle
- Douglas McArthur Elementary
- Brace-Lederle Elementary

**City of South Lyon**

Public Facilities:

- 3 Ball diamonds
- 7 Soccer fields
- 1 Swimming pool
- 1 Exercise-fitness trail
- 1 Senior citizen center

All facilities owned by school district.

School Facilities:

- South Lyon High
- Centennial Middle

**City of Sylvan Lake**

Public Facilities:

- 2 Beach areas
- 1 Recreation Center

School Facilities:

- Whitfield Elementary

**City of Troy**

Public Facilities:

- 56 Ball diamonds
- 35 Soccer fields
- 8 Volleyball court
- 5 Basketball courts
- 50 Tennis courts (no lights)
- 1 Golf course - 18 holes
- 2 Nature trails
- 22 Play structures
- 5 Picnic areas
- 5 Picnic shelter
- 3 Exercise-fitness trail
- 1 Cross country ski area
- 1 Outdoor education center
- 1 Historic facility
- 2 Disk Golf
- 1 Aquatic Center
- 1 Community Center
- 1 Football Field

School Facilities:

- Hamilton Elementary
- Smith Middle
- Martell Elementary
- Troy Union Elementary
- Wass Elementary
- Leonard Elementary
- Costello Elementary
- Athens High
- Larson Middle School
- Hill Elementary
- Schroeder Elementary
- Boulan Park Middle
- Bemis Elementary
- Troy High
- Wattles Elementary
- Baker Middle
- Barnard Elementary
- Pembroke Elementary
- Morse Elementary
- Susick Elementary

## **City of Walled Lake**

### **Public Facilities:**

- 4 Ball diamonds
- 5 Soccer fields
- 17 Volleyball courts
- 4 Football fields
- 1 Swimming pool

All facilities owned by school district

### **School Facilities:**

- St. Matthew Lutheran (private)
- Decker Elementary
- Walled Lake Junior High
- Walled Lake Elementary

## **City of Wixom**

### **Public Facilities:**

- 3 Baseball fields
- 1 Soccer field
- 1 Nature trail
- 1 Ice skating area
- 1 Picnic area
- 2 Exercise-fitness trail
- 1 Senior citizen center

### **School Facilities:**

- Wixom Elementary

## **Village of Beverly Hills**

### **Public Facilities:**

- 2 Ball diamonds
- 1 Tennis court (no lights)
- 1 Horseshoe pit
- 1 Boat launch-fishing area
- 1 Play structure
- 1 Sledding hill
- 2 Ice skating rinks
- 2 Picnic areas
- 1 Picnic shelter
- 1 Exercise-fitness trail

### **School Facilities:**

- Berkshire Middle

- Our Lady Q. of Martyrs (priv.)
- Detroit Country School (priv.)
- W.E. Groves High
- Beverly Elementary
- Greenfield Elementary
- Fred D. Leonhard Elementary

## **Village of Bingham Farms**

### **Public Facilities:**

- No community owned facilities.

### **School Facilities:**

- Bingham Farms Elementary

## **Village of Clarkston**

### **Public Facilities:**

- 1 Picnic shelter

### **School Facilities:**

- None.

## **Village of Franklin**

### **Public Facilities:**

- No community owned facilities

### **School Facilities:**

- None.

## **Village of Holly**

### **Public Facilities:**

- 1 Ball diamond
- 1 Picnic area
- 1 Senior citizens center
- 1 Recreation Center

### **School Facilities:**

- Benjamin H. Sherman Middle
- Patterson Elementary
- Holly Elementary
- M.D. Bennett Junior High
- Holly Senior High

## **Village of Lake Orion**

### **Public Facilities:**

- 3 Ball diamonds
- 1 Boat launch-fishing area
- 1 Beach area
- 2 Play structures
- 1 Picnic area
- 1 Senior citizen center
- 1 Art center

### **School Facilities:**

Community Education Center  
Blanche Sims Elementary

## **Village of Leonard**

### **Public Facilities:**

No facilities reported.

### **School Facilities:**

None.

## **Village of Milford**

### **Public Facilities:**

- 2 Ball diamonds
- 1 Play structures
- 3 Picnic areas
- 1 Picnic shelter

### **School Facilities:**

Muir Junior  
Kurtz Elementary  
Johnson Elementary

## **Village of Ortonville**

### **Public Facilities:**

- 4 Ball diamonds
- 1 Picnic area
- 1 Picnic shelter
- 1 Senior citizen center
- 1 Recreation Center

### **School Facilities:**

Burt Elementary  
Community Services School

## **Village of Oxford**

### **Public Facilities:**

- 1 Beach area
- 1 Picnic shelter
- 1 Senior citizen center

### **School Facilities:**

Oxford Junior High  
Oxford High  
Daniel Axford Elementary

## **Village of Wolverine Lake**

### **Public Facilities:**

- 3 Ball diamonds
- 4 Tennis courts (no lights)
- 1 Exercise-fitness trail

### **School Facilities:**

None.

## Private Recreation

Privately owned facilities which offer recreational opportunities similar in scale to county park facilities were inventoried by Oakland County Planning Division in 1987, and have been updated for this Plan.

### Ski Areas

Mount Holly Ski Club  
Pine Knob  
Alpine Valley Ski Resort  
Teepie Hill

### Location

Groveland Township  
Independence Township  
White Lake Township  
White Lake Township

### Golf Courses

Indianwood Golf & Country Club  
Brookwood Golf Club  
Great Oaks Country Club  
Oakland Univ. Katke-Cousins Golf Course  
Pine Trace Golf Course  
Edgewood Country Club  
Bay Pointe Golf Club  
Twin Beach Country Club  
Orchard Lake Country Club  
Tam O'Shanter Country Club  
Knollwood Country Club  
Pine Lake Country Club  
Wabeek Country Club  
Forest Lake Country Club  
Bloomfield Hills Country Club  
Stonycroft Hills Country Club  
Oakland Hills Country Club  
Birmingham Country Club  
Somerset Golf Course  
Franklin Hills Country Club  
Plum Hollow Golf Club  
Red Run Golf Course

Orion Township  
Rochester Hills  
Rochester Hills  
Rochester Hills  
Rochester Hills  
Commerce Twp.  
Commerce Twp.  
W. Bloomfield Twp.  
Orchard Lake Village  
W. Bloomfield Twp.  
W. Bloomfield Twp.  
W. Bloomfield Twp.  
Bloomfield Township  
Bloomfield Township  
Bloomfield Hills  
Bloomfield Hills  
Bloomfield Township  
Birmingham  
Troy  
Farmington Hills  
Southfield  
Royal Oak

### Private General Recreation Areas

Camp Tamarack  
Girls Friendly Society  
Holly Hills Camp Site  
Camp Narrin  
Clear Water Campgrounds  
Camp Nahelu  
Metamora Club  
Detroit Sportsman's Congress  
Clear Lake Camp  
Lake Orion Gun Club  
Camp Oakland  
Echo Grove Camp  
Family Camp

Groveland Township  
Groveland Township  
Groveland Township  
Groveland Township  
Brandon Township  
Brandon Township  
Oxford Township  
Oxford Township  
Oxford Township  
Oxford Township  
Oxford Township  
Oxford Township  
Oxford Township  
Addison Township

Family Camp	Addison Township
Michigan Nature Association	Addison Township
Rochester Hills Riding Stables	Addison Township
Upland Hills Farm	Addison Township
Fenton Ikes	Rose Township
Guardian Angel Home	Rose Township
Gaelic League/Protestant Youth Camp	Rose Township
Camp Fire Girls	Rose Township
Brown's Landing	Rose Township
Camp Ohiyesa	Rose Township
Russian Association of Detroit	Rose Township
Camp Oweki	Independence Twp.
Oakland County Sportsman's Club	Independence Twp.
Chief Pontiac Post	Independence Twp.
Camp Agawan	Orion Township
Bald Mountain Riding Stables	Orion Township
South Island Camp	Highland Township
St. Pawlak Recreation	White Lake Township
J. Ivory Storage Co., Inc.	White Lake Township
Suburban Softball Inc.	Rochester Hills
Camp Dearborn	Milford Township
Multi-Lakes Conservation Assn.	Commerce Twp.
Birmingham Gun Club	Commerce Twp.
Detroit Gun Club	Commerce Twp.
German Camp	W. Bloomfield Twp.
Kelva Park	W. Bloomfield Twp.
Detroit Archers	W. Bloomfield Twp.
Bloomfield Open Hunt Club	Bloomfield Hills
Northfield Hills	Troy
Layman Fields	Lyon Township
Haas Lake Campground	Lyon Township
Finnish Assn. Recreation Area	Wixom
Thunderbird Day Camp	Wixom
Totem Pole Camp	Wixom
Bosco Fields	Novi
Lutheran Field Club	Huntington Woods
Drayton Plains Nature Center	Waterford Township

## **Greenways**

Oakland County has a trail system encompassing a variety of greenways which form a network linking community residential areas and town centers with outlying recreational lands. It provides residents additional recreational opportunities and access to parklands. These links or greenways include abandoned railroad rights-of-way, proposed or existing road rights of way, utility easements, and river or drainage courses as potential corridors for recreational hiking, biking, cross-country skiing and equestrian travel. Connection to these trails should be maintained and/or accomplished as the Commission deems it appropriate.

The Paint Creek Trail is 10.5 miles of former Penn Central Railroad right-of-way extending from the southern boundary of the Village of Lake Orion through Orion Township, Oakland Township, Rochester and Rochester Hills to the Oakland- Macomb County line. Approximately one mile of the trail, as it passes through the city of Rochester, follows that city's bike routes. The Paint Creek Trail links two major regional parks, the Bald Mountain State Recreation Area at the north end and the Rochester-Utica State Recreation Area at the south end.



# Oakland County Park Facilities and Programs

Since 1966, approximately 5,500 acres of land have been acquired by the Oakland County Park System with assistance from state and federal governments. To date, there are eleven (11) County parks which range in size from 125 acres to 1,088 acres (Figure 10). The parks are listed as follows:

## **Addison Oaks (793 acres)**

Addison Oaks, opened in 1969, is located in the extreme northeast part of the county east of Lake Orion. The park has a good mix of hardwood stands, swamps, marshes, open fields and two lakes: Adams and Buhl. An historic conference center, built in 1927, is available for wedding receptions, banquets, parties and limited group conferences, with no overnight lodging accommodations. The master plan completed in 1978 calls for trolley services, an 18-hole golf course, a fifteen acre botanical garden, additional family and group camping, a nature center, a field, and court games.

### Major Facilities:

- Conference center
- Hiking trails - 6 miles
- Mountain biking trails - 6 miles
- 20 primitive, 23 semi-modern, and 50 modern campsites
- Swimming beach
- Picnic areas
- Lake ice fishing and skating
- Fishing
- Row boats and paddle boats
- Cross Country Skiing
- Disk Golf - 18 holes
- Camping cabins - 4
- 62 sites for group camping
- Youth camp areas

## **Glen Oaks (125 acres)**

Glen Oaks is one of two County parks located in the southern portion of the County. Glen Oaks is located between 13 and 14 Mile Roads between Orchard Lake Road and Northwestern Highway. The park functions primarily as a golf course and clubhouse. The clubhouse can be used for large banquets, wedding receptions and golf outings.

### Major Facilities:

- 18 hole golf course
- Clubhouse and banquet facility
- Pro shop
- Bar and grill
- Cross country skiing

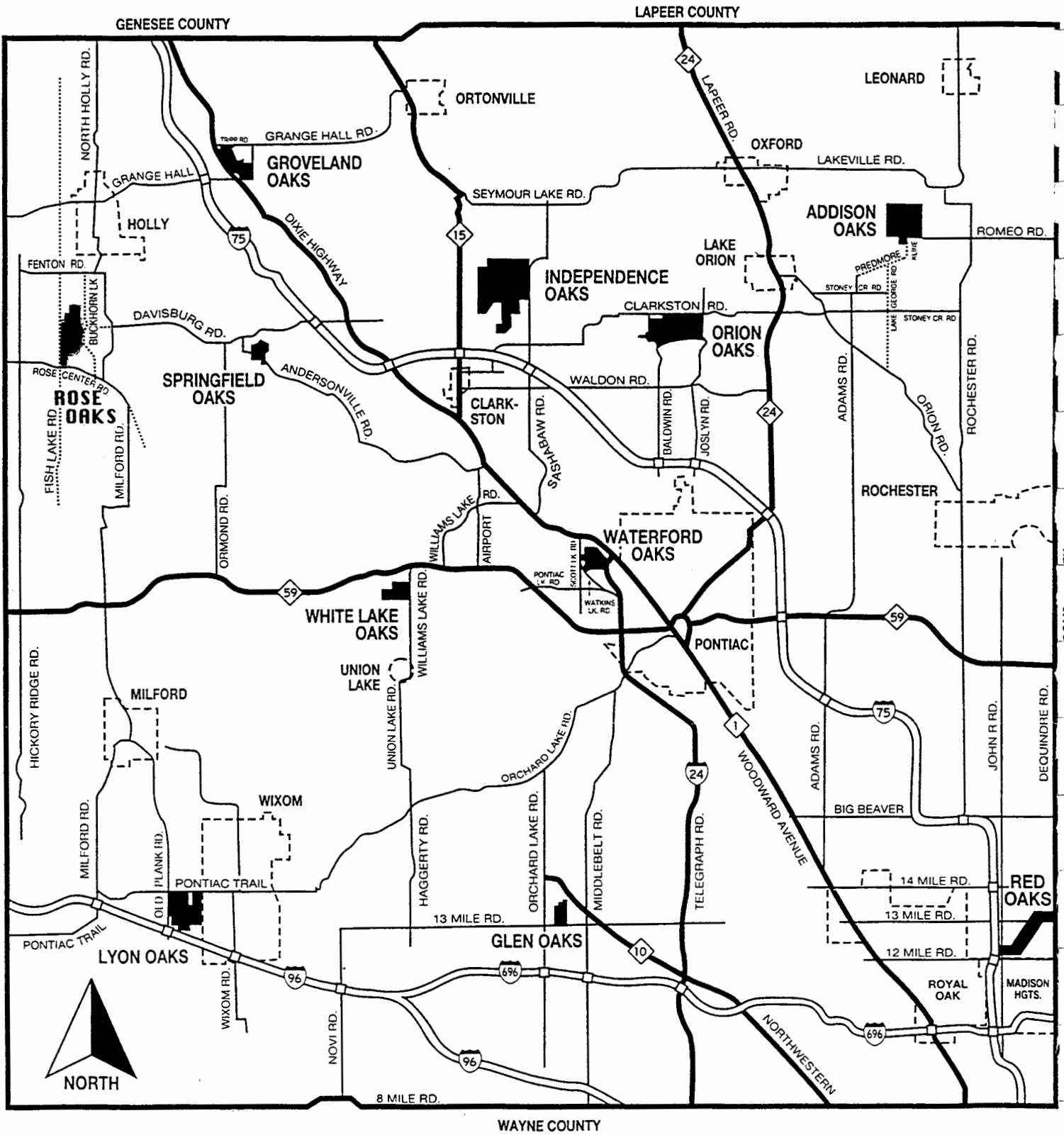


Figure 10

Oakland County Parks

Source: Oakland County Parks and Recreation

Carlisle/Wortman Associates, Inc.  
Ann Arbor, Michigan

## **Groveland Oaks (360 acres)**

Groveland Oaks is located in the northwestern part of the county between the Villages of Holly and Ortonville. The park was purchased in 1967 from a privately run campground. An additional 162 acres were acquired in 1987 and 1.09 acres in 1990. The park has campsites, a beach and swimming area, a 63-foot water slide ride and picnic areas. Stewart Lake (35 acres) divides the site into an east and west half. Islands within the lake are also used for day picnics by groups.

### **Major Facilities:**

- Campground (467 sites)
- Convenience store/concession facility
- Swimming beach
- Picnic facilities
- Modern restrooms and showers
- Sanitary dump station
- Island picnicking
- Boat and canoe rental
- Water slide
- Children's playscape and play areas
- Picnic shelters and warming area
- Camping cabins - 4

## **Independence Oaks (1,088 acres)**

Independence Oaks, opened in 1967, is located in the northern central area of the county, northeast of Clarkston. An additional 74 acres was acquired between 1986 and 1988. The park is in the Clinton River Watershed and the Lake St. Clair-Lake Erie Drainage Basin. Crooked Lake (approximately 68 acres) is the primary feature in the park. The park features a nature interpretive center with exhibits and educational programs and an amphitheater in addition to the Twin Chimneys Shelter which is rented out for reunions, parties and weddings. A year-round interpretive program is provided for families, schools and other organizations. Other activities include camping, swimming, fishing, hiking and boat rentals. The master plan for the park was updated in 1994 and calls for 380 campsites.

### **Major Facilities:**

- Picnic areas and shelters
- Boat rental
- Fishing
- Hard surface trails
- Swimming area
- Picnic shelters
- Youth group camping
- Cross-country ski trails and rentals - 9 miles
- Boat ramp and docks
- Nature interpretive center and Interpretive programs
- Ice skating, fishing, and warming shelter
- Rubach sensory herb garden
- Play areas

## **Lyon Oaks (773 acres)**

Lyon Oaks preserves environmentally sensitive land and is the nesting site for hundreds of great Blue Herons. Acquired in 1992, the park is located in Lyon Township, bordered by I-96 and Pontiac Trail and is currently undeveloped.

Undeveloped major facilities may include:

- Environmental education
- Hiking
- Picnicking
- Cross country skiing
- Golf

### **Orion Oaks (927 acres)**

The park was purchased in 1980 with cooperation from the MDNR . The master plan for this park proposes a universally designed camping and environmental education conference facility and includes opportunities for boating, fishing, hiking environmental study area as well as many other programmed activities.

Major Facilities - Largely undeveloped but to include:

- Hiking
- Boating
- Fishing
- Nature study
- Biking

### **Red Oaks (135 acres)**

Red Oaks is located east of John R. Road close to the dense population area. The Red Drain was converted to accommodate the nine-hole golf course and a wave pool.

Major Facilities:

- Sports Village: Adventure golf, children's playscape, grand prix go-cart track, dome covered driving range, batting cages
- 9-hole golf course (120.99 acres)
- Sun deck and shelter
- Wave pool
- 3 Water slides
- Cross country skiing

### **Rose Oaks (620 acres)**

The park was acquired in June 1995 and is located in northwest Oakland County. This ecologically significant land is comprised of woodlands, meadows, and several glacial lakes.

Major Facilities: Undeveloped, Master Plan within four years.

## **Springfield Oaks (276 acres)**

Springfield Oaks is located in the northwest portion of the county, southeast of Holly Village. The park offers an activity center, golf course, pro shop, cart rentals, bar and grill, and other recreation facilities. Parties, both large and small, are accommodated in addition to fairs, 4-H activities and banquets or conferences.

### **Major Facilities:**

- Activities Center (107.4 acres)
- Golf course - 18 holes (169.14 acres)
- Clubhouse with kitchen, 800 person auditorium, dance floor
- Two (2) horse riding arenas (one lighted)
- Grandstands
- Cross-country skiing

## **Waterford Oaks (152 acres)**

Waterford Oaks serves as the administrative complex for the park system and as the headquarters of the Commission. The park is located northwest of the City of Pontiac in Waterford Township. Primary access is off of Scott Lake and Watkins Lake Roads. The facility offers a wave action pool and a two-flume water slide. Other facilities include lighted platform tennis, shuffle board and horseshoe courts. The activity center provides space for banquets, receptions, and parties as well as dancing and educational classes.

### **Major Facilities:**

- Activity building with kitchen, 400 person auditorium, dance floor
- Administrative offices and board meeting room
- BMX bicycle race course
- Eight outdoor tennis courts
- Two (2) lighted platform tennis courts
- Ten (10) shuffleboard courts
- Ten (10) horseshoe courts
- Waterpark, including wavepool, river-rafting rides, and 2 flume water slides
- Picnic areas
- Eight Sand Volleyball Courts
- Refrigerated Toboggan run

## **White Lake Oaks (193 acres)**

White Lake Oaks is located off of M-59 and Williams Lake Road. In 1970, the Commission purchased the golf course. In 1975, twenty-eight additional acres were added to the park. This property offers 18-holes of challenging golf with watered fairways and greens. This serves as the site for the State Senior Citizen Golf Tournament and Junior Golf League Invitational every summer.

### **Major Facilities:**

- Cross-country skiing, lessons, and ski rentals
- Bar and grill
- Clubhouse with pro shop
- Banquet facilities (250 people)
- 18-hole golf course
- Pro shop

## Recreation Programs

The Oakland County Parks and Recreation Commission runs programs on a year-round basis. Recreation programming by the County is designed to supplement those programs offered at the local level. To this end the County provides mobile recreation units for swimming, skating, shows, puppets, sports, movies and nature study. The mobile units are available to local communities and county residents at a modest fee.

The Waterford Oaks activities center is programmed for classes in dog obedience, sewing, taxidermy, ballroom dancing, snowmobile safety, belly dancing and square dancing. Activities are also planned for senior citizens in cooperation with their local organizations. The Springfield Oaks Youth Activity Center is used yearly by 4-H members and other youth groups.

A somewhat general listing will provide an idea of the scope of recreational programs offered. The variety of programs continues to be modified and change as conditions, trends and user demands shift.

- Arts and crafts
- Photography
- Interpretive programs
- Platform tennis tournaments
- Musical programs
- Antique shows
- BMX races
- Golf tournaments (seniors, juniors and adults)
- Golf education classes
- Tennis tournaments
- Mobile units (puppet, skate, sport and show mobile)
- Buses for transportation
- Oaklawns Clown Alley (Special program for handicap persons)
- Dancing (square, round and ballroom)
- Cross country skiing (races/tours)
- Ski clinic (instruction)
- Ice fishing
- Sledding
- Winter carnival
- Indoor basketball
- Indoor volleyball
- Classes:
  - Ballet
  - Ballroom dance
  - Snare drum
  - Dog obedience
  - Drivers education
  - Golf lessons
  - Jazz aerobics
  - Slimnastics
  - Photography
  - Square dance
  - Tap dance
  - Wood carving
- Special events:
  - Car show
  - Hot Air Balloon Festival

Therapeutic Programs offered by the park system include: cross country skiing for the visually impaired, wheel chair basketball, cerebral palsy sports, Special Olympics, Roll-a-thon, miniature golf and special events such as summer picnics and Halloween parties.

Special Programs specifically designed for seniors include mobile cross-country skiing, Senior Hootenanny, South Pacific, Italian Fest, Senior Day Camp, Senior Athletes (softball, billiards, volleyball) and Senior Olympics.



---

# **Administrative Structure**

---

The Oakland County Parks and Recreation Commission was established in 1966, with an initial loan of \$100,000 from the Oakland County Board of Supervisors for organization, preliminary planning and acquisitions. That same year, Oakland County voters approved a 1/4 mill tax levy, and with funds from this tax, the Commission immediately began to acquire and preserve park lands on the fringes of the suburban centers.

Land acquisitions have been made possible with the financial assistance of state and federal agencies and continued millage renewals. A millage renewal was passed in 1970 by a 2-1 margin, another was passed in 1976 by 58.4%, a fourth was passed in 1984, and a fifth was passed in 1990 by a 2-1 margin. Matching funds from the Michigan Department of Natural Resources have provided additional revenue for land acquisitions and public facilities improvements within the parks.

The Parks Commission is comprised of ten appointed members. The Commission is responsible for the development of a park system that provides unique and specialized facilities and programs not normally provided by local agencies, maximize the use of park lands with minimal impact on natural resources, and provide opportunities for a wide variety of indoor and outdoor recreational experiences. To date, the Parks and Recreation Commission owns and operates 11 county parks. In addition to the park areas, the Commission sponsors a mobile recreation program and special events for all ages to complement the recreation programs of the Detroit Metropolitan Area.

The Oakland County Parks and Recreation Commission was created by action of the Oakland County Board of Supervisors by resolution No. 4531, on February 8, 1966 under the authority of Public Act 261 of the Public Acts of 1965.

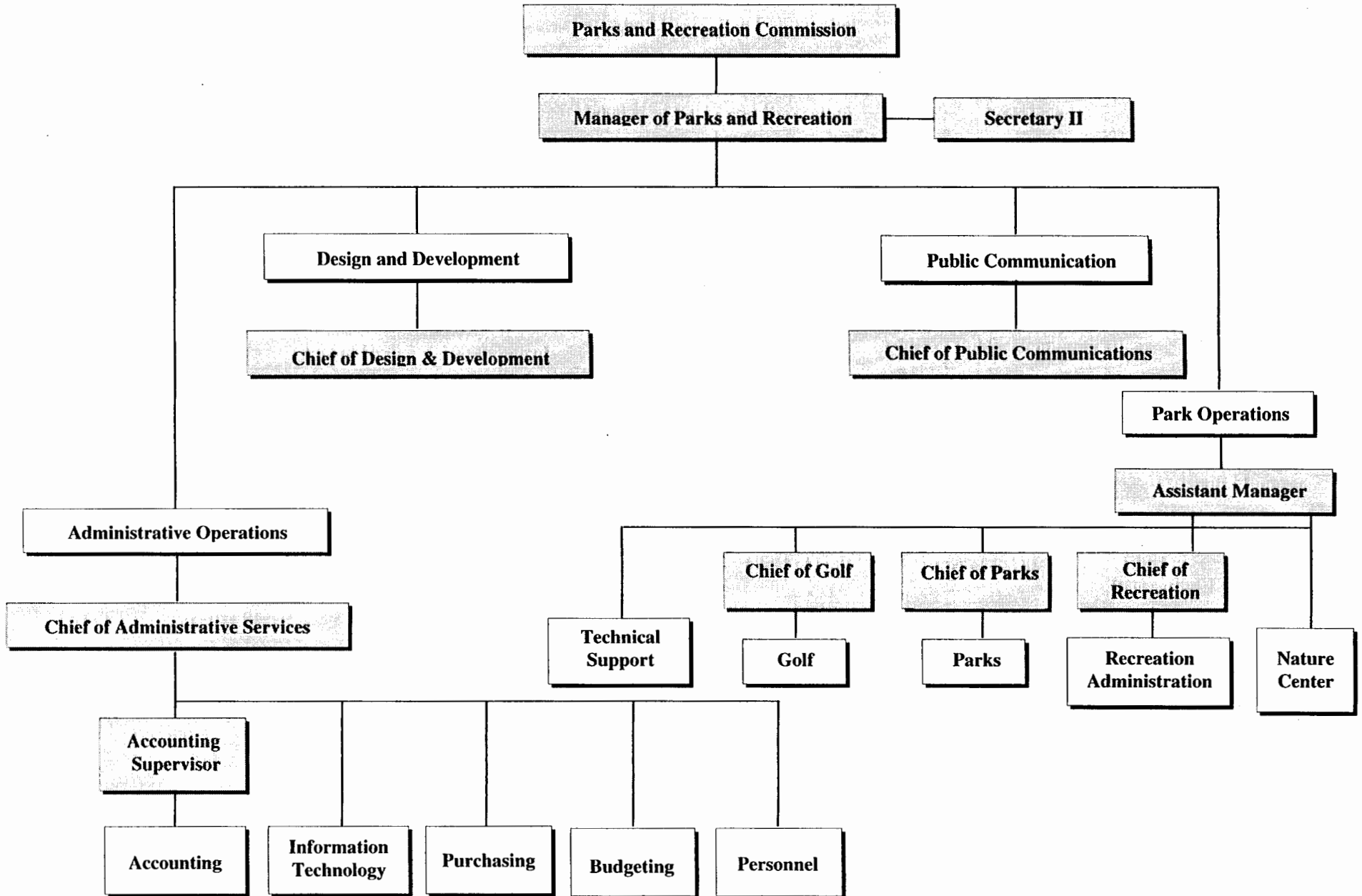
## **Administration**

The Commission establishes policies, develops plans and programs, and makes financial decisions. The Manager is the liaison between the Commission and staff, is responsible for coordinating the directives of the Commission, and oversees acquisitions and implements development plans. All other Commission staffs are directly responsible to the Manager. The other key staff positions responsible for the management of the parks and recreation system are:

- Chief of Administrative Services
- Chief of Design and Development
- Chief of Public Communications
- Assistant Manager
- Chief of Golf
- Chief of Parks
- Chief of Recreation

The chart on the following page illustrates the organization of the Oakland County Parks and Recreation Commission staff.

# Oakland County Parks and Recreation Commission Organizational Chart



Full-time administrative personnel include:

- Accountant III
- Secretary II
- Secretary I
- Employee Record Specialist
- Two Accounts Clerks II
- Account Clerk I
- Public Communication Assistant I
- Architectural Engineer II
- Architectural Engineer I
- Three Typists II
- Clerk III

Part-time administrative personnel include:

- 2 Technical Aids
- 2 Summer Employees
- 5 Parks Helpers
- Technical Support

Non-administrative personnel include:

- Park Maintenance Supervisor
- Auto Mechanic II
- 2 Skilled Maintenance Mechanics III
- 2 Skilled Maintenance Mechanics II
- General Maintenance Mechanic
- 2 Park Maintenance Aides
- Parks Maintenance Aide (non-funded)
- Clerk I

Part-time non-administrative personnel include:

- 3 Summer Employees
- 2 Parks Helpers

Other Parks and Program Personnel employed in each park generally include:

- Park Supervisor
- Assistant Park Supervisor
- Grounds Equipment and Maintenance Personnel
- Part-time help, such as lifeguards, Seasonal Program Specialist, Gate and Boat Attendants, and summer laborers

### **Methods for Maintaining Facilities**

The Chief of Park Operations is responsible for all facility maintenance and coordinates manpower and materials throughout the system. Each park has a Park Manager who lives on site after it is developed and is responsible for maintenance of that park.

### **Methods for Programming**

Programming functions are performed by two persons, the Assistant Manager and the Mobile Recreation Supervisor. The Mobile Recreation Supervisor responds to local requests for the mobile recreation units and programs, initiates these events, and advises communities without park and recreation departments.

## **Public Communications Program**

The Oakland County Parks and Recreation Commission Public Communications division provides a comprehensive marketing and communications program for the Oakland County Park and Recreation System. Among the responsibilities of the public communications division is the promotion of the park system through the media, customer service programs, research direct mail campaigns, targeted advertising, corporate sponsorships, exhibits, and community organization interaction.

The public communications division distributes more than one hundred news releases and public service announcements annually to metropolitan Detroit daily newspapers, weekly newspapers, magazines, special publications, metro area radio stations, and cable television stations. As many as two hundred thousand park brochures are distributed annually to all Oakland County, city, village and township offices, public libraries, AAA branch offices, Board of Realtors, Welcome Wagon, as well as many other organizations and locations.

Hundreds of special event flyers describing the nature programs, golf tournaments, activities center classes, foundation activities, etc. are produced each year. A color photo exhibit depicting scenes and activities in the parks appear daily in various locations including libraries, community centers, shopping centers, banks, hospitals and other public places. Dozens of community organizations including service clubs, senior citizen groups, church clubs and other groups view the Oakland County parks slide presentation and receive parks literature. The Acorn newsletter is mailed to some fifteen thousand park visitors, Oakland County employees, volunteers, Oakland Parks Foundation members and others.

Radio and television spots include features on the wave pool, nature programs or special events. Interviews with the parks staff and/or manager are also the subject of radio-TV coverage. Cable television programs are produced on topics ranging from platform tennis and boating safety to cross country skiing and golf. The series is currently carried on seven cable systems in Oakland County.

## **Finance and Budget**

Revenues to support the Oakland County Parks and Recreation System operations and capital improvements are derived from a variety of sources. The primary revenue generators are user fees, millage, interest income, and land contracts. Other forms of revenue are received through grants given at the state and federal levels along with donations and gifts. Neither grants or gifts are planned as a regular contribution to the annual budget.

The 1995 General Appropriation Act of the Oakland County Parks and Recreation Commission established a general budget totaling \$13,403,334. In 1995, 75% of the budget or \$9,990,620 was spent on operations and 25% or \$3,412,714 was allocated to capital improvements.

Revenues in 1995 accounted for a total of \$13,403,334.

## **Fees and Charges**

The Commission is responsible for setting all user fees and adjustments. All fees and charges are paid in advance or at the time the facility is being utilized by the public. Individuals or groups which are exempt or partially exempt from user fees or charges are:

- Sr. Citizens, 62 +, (reduction weekdays and free park entrance weekdays).
- Youth Groups (50% reduction as authorized by the manager)
- Governmental units in Oakland County (50% reduction)
- Governmental units and non-profit organizations (other than prime time)
- Other requests are addressed as individual petitions brought before the Commission.

### **Day User Fees**

The day user fee at most parks is \$5.00 per car per day for a county resident and \$8.00 per car per day for a non-county resident. An annual vehicle permit for a resident runs approximately \$25.00 for first vehicle and \$13.00 per additional vehicle. Non-residents pay \$45.00 per vehicle. Walk-ins or youth groups pay \$1.00 per person per day and non-residents pay \$2.00 per person per day.

### **Camping Fees**

Cabins are \$45.00 a night and \$250.00 for 7 days (Friday through Thursday).

Camping fees vary from \$12.00 per family per day for residents at primitive sites (includes the day use fee) to \$16.00 per family per day for non-resident at older sites (also includes day use fee). Modern sites range from \$16.00 for residents to \$20.00 for non-residents respectively.

Youth group rates also vary from \$2.00 per person per day for a resident to \$3.00 per person per day for a non-resident. Senior Citizen rates are \$3.00 per camp site.

Sanitary dump station fees for non-campers ranges from \$5.00 per unit for a resident to \$7.00 per unit for non-resident. Dump fees are included in the campers registration fee.

### **Boat Rentals**

Boat rentals range from \$3.00 per hour to \$10.00 per week day for rowboats. Pedal boats are \$5.00 per 1/2 hour and canoes are \$3.00 per hour.

### **Shelters and Picnicking**

Shelters rentals vary according to facility from \$220.00 to \$300.00 plus an entrance fee.

### **Golf Fees**

Greens fees during the week range as follows:

\$10.00 for 9 holes - resident  
\$17.00 for 18 holes - resident

\$13.00 for 9 holes - non-resident  
\$23.00 for 18 holes - non-resident

\$7.00 for 9 holes - youth under 17 yrs. - resident only Mon-Fri prior to 3:00 pm  
\$12.00 for 18 holes - youth under 17 yrs. - resident only Mon-Fri prior to 3:00 pm

\$7.00 for 9 holes - Seniors 62 yrs. and over - resident  
\$12.00 for 18 holes - Seniors 62 yrs. and over - resident.

\$10.00 for 9 holes - Seniors 62 yrs. and over - non-resident  
\$18.00 for 18 holes - Seniors 62 yrs. and over - non-resident.

\*Weekends and holidays are additional fees

There are additional charges for carts, club rentals, lockers, and twilight golf play.

### **Mobile Recreation**

The County provides the following types of mobile recreation units:

- puppet mobile
- skate mobile
- sports mobile
- bleachers
- dunk tank
- Orbotron

Theses units cost between \$100.00 to \$150.00.

### **Springfield Oaks Activities Center**

The Center is available at a rental of \$600.00 per day. The Exhibit Hall is available separately for \$500.00 for ten hours.

### **Waterford Oaks Tennis Complex**

Tennis Courts (8 courts) are \$3.00 per hour per court. Equipment rental is extra.  
Platform Tennis Courts (4 courts) are \$3.00 per hour per court (\$5.00 per hour with lights and weekends)

Shuffleboard (10 courts) is \$1.00 per hour per court which includes equipment  
Horseshoe Pits (10 pits) are \$1.00 per hour per pit including equipment  
Shelter Rental is \$250.00 per day

### **Waterford Oaks Wave Pool**

General admission is \$6.00, after 6:00 pm it is \$3.50

### **Waterford Oaks Activity Center**

The Activity Center is available for rental at \$600.00 per day and \$90.00 for each additional hour for wedding receptions or other similar parties. Program activities may use the center for \$350.00 for six hours with a \$50.00 fee for each additional hour. Instructional Classes may be scheduled for 50% of the student registration fee in lieu of room rental.

## **Waterford Oaks Toboggan Run**

General admission is \$8.00 per person, \$6.00 for residents.

## **Community Assistance Program**

Since 1981, Oakland County Parks and Recreation Commission has provided the Community Assistance Program. This program was developed to provide recreational services to the population in Oakland County based on the socio-economic needs. The program has provided an opportunity for recreation to areas of Oakland County that have been adversely affected by economic conditions and continued budget reductions. The Commission established an appropriation of funds in the amount of \$20,000 to provide such recreational services to those truly in need.

The program provided recreational opportunities to community recreation departments, youth assistance programs, charities, and special groups. The 1996 Community Assistance Program will provide approximately 100 mobile recreation visits and 30 buses for transportation to the Waterford Oaks Wave pool.



---

# **Basis for Action Program**

---

An essential task in the recreation planning process is to determine the needs of the community as a basis for an action plan. This plan is derived from a clear understanding of future needs and directions.

The Commission has continually monitored the recreation needs of residents and gathered input from staff and other recreation administrators to gain an understanding of future needs and directions. The evaluation of needs and demands serves as the basis for the action program and includes the following:

- Public Surveys
- Commission and Staff Input
- Participation Data and Trends

## Public Survey

The 1986, 1992, and 1997 Parks and Recreation Master Plans each relied on public surveys to generate public comment regarding the facilities and programs sponsored by the Parks and Recreation Commission.

A telephone survey was conducted by Nordhaus Research, Inc. in 1996 to solicit citizen comments regarding the County Park system and to track any changes in attitudes or park usage.

500 telephone interviews were conducted with registered voters in Oakland County between September 28 and October 8, 1996. The county was split into four quadrants, defined by Oakland County Parks and Recreation Commission, from which respondents were randomly chosen.

Findings for this survey are summarized below. Additional details are included in Appendix B and in the Final Report entitled "Oakland County Parks Evaluation," prepared by Nordhaus Research, Inc. in 1996.

1. Usage of the Oakland County Park, as well as State and metro parks, has risen over the past five years, especially among those over 45 years of age.
2. Lyon Oaks and Rose Oaks are the County parks that respondents have least visited, while Independence Oaks, Waterford Oaks, and Addison Oaks continue to rate high in terms of most visited.
3. Overall, most park users are very satisfied with Oakland County Parks.
4. Cleanliness and good maintenance continue to be one of the main reasons County parks are appealing.
5. Environmental education programs for children and accessibility of park facilities and programs for the physically impaired could be additional opportunities offered by County parks.

6. Respondents are most likely to participate in picnicking, hiking, and nature programs, while hiking, golfing, and water parks are the activities or facilities most used.
7. Land acquisition for the protection of natural wildlife habitat was seen as the first priority for future park efforts, land acquisition for recreation purposes came in as second choice.
8. 77% of respondents are willing or very willing to support a 1/8 mill tax increase for park funding.

## **Commission and Staff Input**

Commission and staff meetings have been held to gain an understanding of the main operational and management issues facing the County Parks and Recreation System. Issues identified include maintenance and its rising costs, special facility needs of senior citizens, minorities, and the underprivileged, improved therapeutic programs, improved barrier-free access, improved visibility and public image, achieving balance between recreation facilities development and natural landscape preservation, Commission involvement in historic site preservation, and the renovation of mobile recreation units.

The Commission and staff believe the basic goal of the Oakland County Parks and Recreation System continues to be the provision of a basic county park offering day use recreation experiences such as picnicking, swimming, beach activities and trail hiking to large numbers of county residents. Generally, these park activities should occur in or adjacent to relatively natural, wooded or aquatic environments except for a few special facilities such as the wavepools. The Commission will consider fairly large tracts of land for future parks in order to offer traditional recreational opportunities in natural settings and also include innovative facilities where appropriate.

In addition, as part of the planning process in 1986, 1991, and 1996, several workshops and retreats were held with Park Commissioners and staff, participants from local government, and professional planners. The workshops were based on "delphi" techniques to help initiate free discussion and to identify deficiencies, opportunities and set priorities to establish the park system's future needs and directions.

## **Participation Data and Trends**

Park attendance totals for 1993, 1994, and 1995 indicate a general increase. Although the numbers seem to indicate a slight decrease for golf course attendance between 1994 and 1995, participation in recreation programs and special events as well as attendance to day-use parks generally show increases.

The largest increase in special events participation are observed for:

- Mobile Recreation
- Springfield Oaks Activities Center

The five day-use parks which show the largest increase in attendance are:

- Groveland Oaks
- Waterford Oaks

**Table 7  
Attendance and Participation Data  
1993-1995**

	1993		1994		1995		% Change
	Leagues/ Groups	Participants	Leagues/ Groups	Participants	Leagues/ Groups	Participants	
Totals Golf Courses	2,328	215,775	2,315	228,348	2,264	206,597	-4%
Totals Recreation & Special Events	2,694	289,926	2,039	264,907	1,908	304,063	+30%
Totals Day Use Parks	90,296	846,248	89,667	958,687	96,932	1,017,748	+6%
<b>Grand Totals</b>	<b>95,318</b>	<b>1,351,949</b>	<b>94,021</b>	<b>1,451,942</b>	<b>101,104</b>	<b>1,528,408</b>	<b>+13%</b>
<b>Golf Course</b>							
Glen Oaks	759	63,620	716	70,032	684	65,016	
Red Oaks	350	40,566	307	43,768	313	37,664	
Springfield Oaks	510	43,126	534	45,389	485	39,913	
White Lake Oaks	709	68,463	758	69,159	782	64,004	
<b>Totals</b>	<b>2,328</b>	<b>215,775</b>	<b>2,315</b>	<b>228,348</b>	<b>2,264</b>	<b>206,597</b>	<b>-4%</b>

	1993		1994		1995		% Change
	Leagues/ Groups	Participants	Leagues/ Groups	Participants	Leagues/ Groups	Participants	
<b>Parks</b>							
Addison Oaks	15,613	101,316	15,352	106,597	14,664	100,891	
Groveland Oaks	20,391	184,546	21,492	231,575	23,472	244,230	
Orion Oaks					4,717	16,510	
Independence Oak	53,408	196,933	51,200	188,032	52,344	196,663	
Nature Ctr.	521	117,357	738	115,477	715	108,952	
Addison Oaks Conf. Center	317	42,294	329	44,371	325	43,854	
Glen Oaks Banquet Facility	189	24,043	182	22,300	191	24,378	
White Lake Oaks Banquet Fac.	88	8,974	88	7,866	76	6,914	
The Fridge at Waterford Oaks	0	0	0	4,916	118	18,562	
Waterford Oaks Waterpark	130	50,145	125	48,125	136	56,693	
Red Oaks Waterpark	160	89,253	161	70,665	174	88,284	
Red Oaks Golf Dome & Sp. Village	0	148,744	0	118,763	0	111,817	
<b>Totals</b>	<b>90,817</b>	<b>963,605</b>	<b>89,667</b>	<b>958,687</b>	<b>96,932</b>	<b>1,017,748</b>	<b>+6%</b>
<b>Special Events</b>							
Mobile Recreation	1000	103,260	1,072	119,088	1,160	133,993	
Waterford Oaks	878	48,631	709	58,710	523	46,503	
Springfield Oaks Activities Center	295	81,820	258	87,109	225	123,567	
<b>Totals</b>	<b>2,173</b>	<b>233,711</b>	<b>2,039</b>	<b>264,907</b>	<b>1,908</b>	<b>304,063</b>	<b>+30%</b>

## Recreation Needs

The following recreation issues have been identified through the surveys and workshops. These issues begin to define the broad park and recreation needs of Oakland County residents and establish the basis for the action program. The main issues include: Visibility and Public Relations, Financial, Planning and Coordination, Innovative Park Facilities, Popular Activities, Administration, and Parkland Acquisitions.

## **Visibility and Public Relation Needs**

Visibility, name recognition and public awareness of county park facilities continues to be an issue for the Oakland County Parks and Recreation System. This is particularly true close to the core of the Detroit Metropolitan Area where there are many local park systems, state parks and HCMA parks available to the public in addition to the county parks.

As stated above, Oakland County Parks suffer from an identity problem. County parks are often confused with state and HCMA parks, or are not recognized at all. According to the results of a telephone survey conducted by Nordhaus Research Inc. in November 1996, 34% of the respondents could not name any specific county park, an increase of 6% over the 1991 survey. The names of state and metroparks frequently were confused for Oakland County parks. For example, Kensington, Stony Creek and Dodge Parks were often erroneously named as Oakland County parks. Of the Oakland County parks, however, Independence Oaks and Addison Oaks were the most frequently named, as opposed to Kensington and Stony Creek five years ago.

Other responses recorded by the Nordhaus survey provided further support of the identity problems of the county park system. For example, 29% of respondents were completely unaware of Oakland County parks. Public awareness of Oakland County parks is a continuing problem which had been identified in the 1996 and 1986 Master Plans as well.

The Parks and Recreation Commission and staff have also identified the lack of public awareness of county park facilities, programs, and activities as a concern. The Commission has implemented a new logo but feels that more promotional and public relations efforts are necessary in order to develop the County park system's identity as unique. Commission members and staff perceive a need for increased advertising, networking, cooperative promotions, and funding to improve system visibility and awareness, and, thereby, increase the system's user base.

In summary, the need to improve the public awareness and general visibility of the Oakland County Park System continues to exist. Increased facility use and program participation may be expected if county residents know where the parks are located, the programs which are offered, and their availability for use.

## **Financial Needs**

The Oakland County Parks and Recreation Commission has developed and operated the Park System using general tax revenues, tax millages, interest income, user fees, and state and federal grants.

Operations and capital improvements have remained in balance through past administrations. Over the past few years, however, though revenues have been increasing, operational costs have risen as well. The result has been a steady flow of funds available for capital improvements and development. A means of curbing operational costs and increasing revenues where possible must become a priority to continue capital improvement projects. Voter support of another means of funding may be necessary as well.

The Commission has taken a responsible role in requiring that most facilities be positive revenue producers. It has now become critical to maintain the Commission's

philosophy that new or existing facilities must be either revenue generators or, at minimum, break-even operations where possible in order to continue to satisfy existing needs.

The 1996 survey shows general support of an increased tax to support the Parks and Recreation system (a \$6.25 tax increase on a \$100,000 market value home). The Parks and Recreation Commission should consider moving forward with steps to increase the tax.

## **Planning and Coordination**

Recreation planning in the southeastern section of Michigan, the greater metropolitan area of Detroit and surrounding counties has been a relatively autonomous governmental function. Generally, recreation and park facilities have been provided to the level each governmental unit deems appropriate. This has resulted in some areas having more public recreation facilities than others and some duplication of facilities and services. Individual planning efforts have resulted in each governmental unit trying to serve their own "constituency", which in many cases encompasses the same groups or users.

During the 1986 Master Plan effort, many participants suggested the need to identify the general role of each governmental unit and to coordinate recreation planning efforts to better serve the public and avoid duplication of services. It was also suggested that this coordination effort become a continual and flexible process in order to accommodate demographic changes, energy constraints, and the demand for particular leisure activities.

Increased coordination of planning efforts has occurred since then due to the activities of groups such as SPARCS (derivative of acronym for State, County, and Regional Area Parks Systems), and the efforts of the state, county, and regional park systems. The Oakland County Parks and Recreation Commission has established a relationship with the Southeastern Council of Governments as a means of promoting a comprehensive, regional planning process. This regional planning effort needs to be continually strengthened and constantly monitored to assure increased awareness, and coordinated to efficiently fulfill the recreation demands and needs of county residents.

## **Innovative Park Facilities**

The development of innovative park programs, activities and facilities has been a high priority for the County Parks and Recreation Commission over the past five years. The 1986 and 1992 Plans outlined an interest, on the part of the Parks and Recreation Commission and park users, for the County to pursue large projects such as additional water features (wavepools or waterslides), camping facilities, interpretive nature preserves, cooperative educational programs with the school districts and private sectors, outdoor multi-purpose trails, winter toboggan runs, additional golf facilities, and cultural facilities. The major accomplishments to occur since the above list was drafted have been in line with these projects.

These projects coupled with new parkland acquisitions adjacent to existing facilities or in new areas demonstrates the continued effort of the Commission to provide unique and quality facilities and programs.

There continues to be a need for unique and innovative types of recreation facilities in Oakland County. However, each proposal for an innovative type of facility needs to be examined and a market analysis completed to determine the user demands prior to actually developing plans. Once the demands are determined, a financial analysis should be performed to demonstrate if the operation will be self-supporting prior to making a commitment to a particular project.

## **Popular Park Programs**

The County Park System is consistently improving or expanding facilities for the popular activities such as picnicking, hiking, nature programs and swimming. These activities are integral to the fulfillment of the recreational needs in the County. The expansion of the Nature Center at Independence Oaks, the redevelopment of 300 campsites at Groveland Oaks, beach improvements, and the new waterpark facilities at Waterford Oaks demonstrate the commitment to providing popular activities and facilities.

New programs, such as environmental education programs and special interest group events could be implemented to fulfill the demand for new popular activities and programs.

## **Administrative Needs**

Administrative needs continue to be seen as important, especially the concern for better communication between the Commission and staff, and proper training and management of human resources within the County Park system.

The Commission workshops and retreats have been a means by which concerns have been articulated. Staff has indicated that improved communication within all levels is desirable. It has been suggested that cooperation among governmental units should also continue to improve. In addition, it has been suggested that staff training such as periodic seminars or workshops which assist in producing a more efficient operation should continue.

Staff difficulties with the administrative complex were solved when the new administrative offices were occupied in 1988, and a central maintenance complex created a modern facility fulfilling the needs of a more efficient operation for a growing park system.

Staff has identified the following as the most pressing administrative need of the Park System: keeping up with technological advances, keeping current of new legislation and regulations, safety education, updated equipment, computerization, and training. The result has been computerization of the main office and expanded phone service. An 800 number line should be reviewed.

## **Parkland Acquisition**

Most of the County parklands are located in the northern portion of Oakland County. Red Oaks and Glen Oaks, which are located in the southeast, are the major exceptions. This pattern of development has been the result of land availability, the urbanization or suburbanization of some areas, and natural feature conditions.



The county is diligently pursuing acquisition of parklands in Oakland County as well as properties adjacent to existing parks and creation of partnerships for acquisition of future park land.. Grants have been received, and are proposed for acquisitions.

Administrative responses to parkland acquisition are enthusiastic, particularly for acquisitions in the southeastern and southwestern portions of the county. Survey respondents to the Nordhaus Survey felt that future acquisitions should be primarily for the protection of natural wildlife habitat.

---

# **Action Program**

---

# Mission Statements

From the information gathered through surveys, staff and Commission meetings and citizen input, the Oakland County Parks and Recreation commission and staff held a retreat to discuss and develop Mission Statements to guide the long range development of park programs and facilities. The following are the Commission's Mission Statements. The status of each of the actions follows the objectives. They are either not done, in progress, or done. Ex. Net. refers to the Excellence in Network program. Oakland County Parks is participating in currently.

## Comprehensive Mission Statement

**To provide all residents of Oakland County with recreational, leisure and learning experiences, parks, open spaces, facilities, professional staff and fiscal management resulting in a comprehensive county park system that enhances the residents' quality of life.**

## Human Resources Mission Statement

To provide a competent, professionally trained staff to administer the policies and programs of the Parks and Recreation Commission resulting in a high quality, accessible parks system for its patrons.

### Goal 1

Identify staffing and position needs.

### Objective(s)

- 1.1 Review staff needs in relation to:
  - volunteers as rangers
  - part-time naturalist at various parks
  - Scooter - volunteers (seniors and adults)
  - volunteer/community service coordinator

### Goal 2

Continue to provide funding and opportunities for staff training.

### Objective(s)

- 2.1 Encourage staff training and develop an evaluation for effectiveness of training efforts. (In progress)
- 2.2 Review and evaluate the tuition reimbursement program for possible recommendation of increases and use. (In progress)
- 2.3 Explore the implementation of a four-year rate for part-time attendant positions. (Done)

- 2.4 Provide additional incident/accident report form training for staff. (In progress)

### **Goal 3**

Provide staff with up-to-date equipment and facilities.

#### **Objective(s)**

- 3.1 Implement and evaluate office automation program. (Done)
- 3.2 Investigate a master reservation program to include facility rental, Mobile Recreation unit reservations, etc.
- 3.3 Further investigate uses of county Purchasing program on computer. (Done)
- 3.4 Implement and evaluate Landcad computer system. (Done)

### **Goal 4**

Provide open lines of communication for staff to address needs and concerns.

#### **Objective(s)**

- 4.1 Improve communications for CIP projects with park staff. (In progress)
- 4.2 Communicate to staff on major issues, such as current status and/or future direction, etc. (Done) (Ex Net)
- 4.3 Solicit feedback from staff on improved communication. (Supervisors and staff meetings; open door policy.) (In progress) (Ex Net)
- 4.4 Meeting with chiefs at various parks to meet with staff on a regular basis. (In progress)
- 4.5 When parks and recreation staff enter any park, stop and identify yourself at the office or contact station so the park is aware that you are there.
- 4.6 Voice mail at main office. (Done)

### **Goal 5**

Nurture opportunities for informal communication between commission and staff.

#### **Objective(s)**

- 5.1 Have commissioners more involved as dignitaries and presenters at special events/activities.

- 5.2 Direct questions/concerns to staff prior to commission meetings. (Done)
- 5.3 Have more meaningful park tours. (In progress)
- 5.4 Have commissioners be more identifiable when visiting facilities.
- 5.5 Introductions and interactions with program staff during commission meetings. (Done) (Ex Net)
- 5.6 Hold staff/commission retreat. (Done for 1996, on a continued basis)
- 5.7 Be prompt and prepared for commission meetings.
- 5.8 Highlight each different section, such as in the administration office or at the nature center at Independence Oaks. (In progress)
- 5.9 Commission to write thank you letters to staff for good year. (In progress)
- 5.10 Commission to look to future. (In progress)

## **Financial Resources Mission Statement**

To provide to the citizens of Oakland County sound fiscal management of voted tax revenues and other income utilized for a quality Oakland County park system.

### **Goal 1**

Promote passage of next Commission's millage.

#### **Objective(s)**

- 1.1 Increase public awareness and support of continued passage of millage. (In progress)
- 1.2 Research new funding sources (i.e. corporate adopt-a-park). (In progress)

### **Goal 2**

Review established user fees to assure they are reasonable and equitable, and to maintain the concept of a self-supporting operation.

#### **Objective(s)**

- 2.1 Implement change in fees and charges (In progress)
  - annual motor vehicle permit
  - island and shelter rentals
  - deposits for rentals

- golf rates
- camping fees

2.2 Consider one sticker that is collaborated with other park systems.

### **Goal 3**

Aggressively pursue grant funding. (In progress)

#### **Objective(s)**

- 3.1 Aggressively pursue other grant funding. (In progress)
- 3.2 Pursue money payable on completed grants. (In progress)

### **Goal 4**

Provide funding for future capital improvement and acquisition.

#### **Objective(s)**

- 4.1 Formulation of decision on utilization of funds for acquisition and development. (In progress)
- 4.2 Develop a projection of future capital needs (4-year time frame). (Done for 1996, on a continued basis)
- 4.3 Address ADA funding requirements for implementation of accessibility. (In progress)

### **Goal 5**

Increase efficiency for cost reductions.

#### **Objective(s)**

- 5.1 Evaluate cost benefits.
- 5.2 Implement an incentive program for those who reach financial goals. (In progress)
- 5.3 Review cost savings in relation to private vs. county contractors. (In progress)
- 5.4 Implement cost savings in staff productivity. (In progress)
- 5.5 Evaluate on-line computer maintenance program. (Done)
- 5.6 Evaluate new technology for management. (Done)

### **Goal 6**

Provide appropriate, significant funding for public awareness.

## **Physical Resources Mission Statement**

To acquire, improve, and maintain for all residents of Oakland County, year-round, diversified, universally designed physical resources which result in the effective utilization of recreational properties, preservation of natural areas and the satisfaction of present and future recreational needs.

### **Goal 1**

Acquisition of appropriate lands to meet defined needs.

#### **Objective(s)**

- 1.1 Re-establish land acquisition policy—buy, develop, protect. (In progress)
- 1.2 Research land needs including local, state and county, where we have a deficit and don't serve that recreational need. For example, historical, wildlife habitats. (In progress)
- 1.3 Re-evaluate parks for of future land needs.
- 1.4 Acquire the rookery property in 1992-93. (Done)
- 1.5 Investigate he acquisition of a modern-day farm to operate for visitors.

### **Goal 2**

Maintain and update existing facilities.

#### **Objective(s)**

- 2.1 Pre-plan yearly Capital Improvement Projects. (In progress)
- 2.2 Evaluate the possibility of dividing the CIP Budget into two categories—existing and new (maintenance and improvement).
- 2.3 Develop a facility maintenance and design standard checklist.
- 2.4 Tentatively prioritize CIP schedule based on future funding. (In progress)
- 2.5 Prioritize facility restoration based on evaluation. (In progress)
- 2.6 Revenue-producing facilities are to be maintained first and foremost. (Done)
- 2.7 Continue to have a facilities safety checklist to lay groundwork for CIP projects further in advance. (In progress)
- 2.8 Review parking at all facilities. (In progress)

### **Goal 3**

Update Orion Oaks Master Plan in light of funding and new conditions—determine direction.

#### **Objective(s)**

- 3.1 Update the master plan for alternate or phasing, if funding available, review to include the implementation of day use in the northeast corner of the park and the evaluation of the effects of hunting in the park.

### **Goal 4**

Promote and implement universally—designed facilities.

#### **Objective(s)**

- 4.1 Implement based on ADA guidelines. (Done)
- 4.2 Develop children's water areas at Waterford Oaks (Done) and Red Oaks (In progress).
- 4.3 Educate staff and consumers on ADA. (Done)
- 4.4 Develop facilities for week-long camping lodge for school-age children at Independence Oaks or Groveland Oaks.

### **Goal 5**

Develop facilities that are adaptable to changing needs.

#### **Objective(s)**

- 5.1 Initiate revisions to the Independence Oaks master plan. (Done)
- 5.2 Develop a plan and potential funding for bike paths at Independence Oaks. (In progress)
- 5.3 Promote facility identification/awareness. (In progress)
- 5.4 Promote facility identification/awareness to the public. (In progress)

### **Goal 6**

Continue the development of park standard.

#### **Objective(s)**

- 6.1 Implement or initiate the designing of the actual standard for design integrity based on review of each park. (In progress)
  - a. Signage
  - b. Control gates



- c. Lighting
- d. Continuity
- e. Integrity

- 6.2 Develop programs for land use, forest, and meadow management.
- 6.3 Purchase and/or develop additional golf course. (In progress)

## **Consumers Mission Statement**

To provide all Oakland County residents a wide range of high quality, affordable, safe, recreational experiences which result in an enhanced leisure life style, and better physical and mental health.

### **Goal 1**

Provide recreational activities and services that meet the needs and wants of Oakland County residents.

### **Objective(s)**

- 1.1 Present a park orientation program specifically designed for what you want your employees to know and what your expectations are of them. (Done)
- 1.2 Expand our policy, or make a recommitment, to be more sensitive and responsive to the park visitors. (In progress) (Ex Net)
- 1.3 Keep current information available to those people answering the parks telephones. (Done)
- 1.4 Choose more carefully the people you hire for your parks. (In progress)
- 1.5 Improve telephone communication to our park inquiries. (In progress)
- 1.6 Implement environmental, recycling education programs and opportunities.
- 1.7 Mail back mobile recreation evaluations rather than having them returned immediately in person. (Done)
- 1.8 Develop tracking system for comment cards. (Done)
- 1.9 Provide fees and charges, and the rationale for the park and golf course users. (Done)
- 1.10 Promote golf education.
- 1.11 Promote more events to encourage physical fitness.

- 1.12 Revise questions on mobile recreation comment card. (Done)
- 1.13 Survey golfers on course—midway through course (outsider rather than staff.)
- 1.14 Scientific in-park studies.
- 1.15 On golf schedule, put comments on daily schedules. (Get more feedback from staff at parks/golf courses.)
- 1.16 Develop overview of the park (or the entire system) so visitors can select what areas they may want to see while visiting the park. (In progress)

## **Goal 2**

Promote the visibility and image of the park system to existing and potential users.

### **Objective(s)**

- 2.1 Advertise new parks features; make sure people associate them with Oakland County. (In progress)
- 2.2 Implement the parks highway signage program. (Done)
- 2.3 Enhance the entrance of our parks and golf courses—signs. (Done)
- 2.4 Expand information exchange with local parks and recreation department and cities. (Done)
- 2.5 Management staff visible at parks, pools, and golf courses, rather than just first part-time/seasonal staff. (In progress)
- 2.6 Expand nature center weekend programming.
- 2.7 Resurrect the parks photo contest. (In progress)
- 2.8 Advertise with theater promotions—"your tax dollars at work" programs.
- 2.9 Expand cable programming. (Done)
- 2.10 Reconsider adopt-a-highway program. (Done)
- 2.11 Continue to enhance services/personnel of Scooter program. (Done)
- 2.12 Consider an adopt-a-park program similar to the adopt-a-highway program. (In progress)
- 2.13 Implement a web site for the County Park System. (Done)

### **Goal 3**

Promote a better appreciation of Oakland County's natural environment through outdoor experience.

#### **Objective(s)**

- 3.1 Inform people that Oakland County is banking open space for future park use.
- 3.2 Compile a historical background of the parks. (In progress)
- 3.3 Reconsider Orion Oaks' day use commitment. (In progress)
- 3.4 Provide plant identification at the parks and golf courses (In progress)

### **Goal 4**

Use consumer response to facilitate better planning.

#### **Objective(s)**

- 4.1 Be attuned to the park visitors who have complaints, inquiries, and/or suggestions. (In progress) (Ex Net)
- 4.2 Evaluate annual free day in parks (for less advantaged). (Done)
- 4.3 Consider a promotional user service award.

## **Capital Improvement Schedule**

An action program has been developed for the Oakland County Parks and Recreation Master Plan which details specific acquisitions and improvements proposed to occur over the next five year period. Many of these programs are derived from the Oakland County parks and Recreation Commission Capital Improvement Projects budget, 1996.

In general, the Capital Improvement Projects budget can be divided into four major categories. These are:

- Land Acquisition
- Innovative Park Facilities
- Popular Park Facilities
- Water Related Activities

All of the above categories are considered to be priority concerns and are consistent with the identified needs and demands of county residents as well as the Commission's adopted mission statements.

**1997 Capital Improvement Budget and 4 - Year Forecast**  
**( In Dollars )**  
**as of 08/31/96**

	1996 Project Cost Estimate	Paid/ Awarded Through 08/31/96	Adjusted to Project Cost	1996 Project Balance 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
Administration	\$3,705,225	(\$124)	(\$1,565,000)	\$2,140,101	\$1,496,199	\$3,636,300	\$300,000	\$300,000	\$300,000	\$300,000
Addison Oaks	337,301	(91,435)	0	245,866	148,200	394,066	1,462,800	740,000	410,000	4,090,000
Groveland Oaks	631,676	(2,113,123)	1,565,002	83,555	121,333	204,888	335,000	220,000	3,000,000	0
Independence Oaks	1,288,494	(634,549)	0	653,945	357,688	1,011,633	1,067,000	0	165,000	0
Orion Oaks	145,265	(160,094)	52,000	37,171	50,000	87,171	180,000	0	0	0
Glen Oaks	821,017	(51,438)	0	769,579	1,081,093	1,850,672	190,000	0	80,000	0
Red Oaks	101,546	(22,272)	354	79,628	55,000	134,628	800,000	7,000	0	0
Springfield Oaks	509,083	(329,868)	(44,184)	135,031	57,441	192,472	80,000	85,000	115,000	0
White Lake Oaks	220,355	(95,785)	48,037	172,606	120,000	292,606	48,000	150,000	35,000	0
Waterford Oaks	5,498,371	(5,148,096)	21,897	372,172	424,479	796,651	525,000	200,000	30,000	0
Lyon Oaks	1,287,629	(5,035)	0	1,282,594	535,000	1,817,594	4,505,000	0	0	0
Rose Oaks	934,459	(932,659)	9,223	11,023	161,052	172,075	0	30,000	0	300,000
Contingency	902,674	0	347,287	1,249,963	245,773	1,495,736				
<b>Totals</b>	<b>\$16,383,095</b>	<b>(\$9,584,478)</b>	<b>\$434,616</b>	<b>\$7,233,234</b>	<b>\$4,853,258</b>	<b>\$12,086,492</b>	<b>\$9,492,800</b>	<b>\$1,732,000</b>	<b>\$4,135,000</b>	<b>\$4,690,000</b>

**Where the Funds Come From :**

Unreserved Operating Fund Balance, 12/31/95	\$4,074,479
1996 Revised Operating Revenue	\$14,102,056
1996 Revised Operating Expense	(10,169,680)
1996 Revised Operating Depreciation	534,396
1997 Proposed Operating Revenue	\$14,470,149
1997 Proposed Operating Expense	(10,851,714)
1997 Operating Depreciation	596,381
<b>DNR Grants :</b>	
Land Acquisition - Lyon Oaks	\$659,898
Farmstead Acquisition - Lyon Oaks	210,000
Nature Center - Independence Oaks	225,000
Land Acquisition - Waterford Oaks	172,500
Boathouse Restroom Renov. - Independence Oaks	24,500
	1,291,898
<b>Donations:</b>	
Nature Center - Independence Oaks	\$50,000
1996 Operating Equipment	(633,370)
1997 Operating Equipment	(628,103)
Operating Equipment Replacement	(750,000)
Proposed 1997 Capital Development Budget	<u>\$12,086,492</u>

# 1997 Capital Improvement Budget and 4 - Year Forecast

( In Dollars )

as of 08/31/96

## Administration

<u>Project</u>			1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	<u>Four Year Forecast</u>			
									1998	1999	2000	2001
ADM	3	Future Acquisition & Improvement	\$3,705,225	(\$124)	(\$1,565,000)	\$2,140,101	\$1,496,199	\$3,636,300	\$300,000	\$300,000	\$300,000	\$300,000
Total			\$3,705,225	(\$124)	(\$1,565,000)	\$2,140,101	\$1,496,199	\$3,636,300	\$300,000	\$300,000	\$300,000	\$300,000

# 1997 Capital Improvement Budget and 4 - Year Forecast

## ( In Dollars )

as of 08/31/96

### Addison Oaks

Oakland County Parks and Recreation Master Plan

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
AO 10 Play Lot	\$35,000	(\$34,333)	\$0	\$667	\$4,000	\$4,667	\$0	\$0	\$0	\$0
AO 15 New Contact Station	0	0	0	0	0	0	0	350,000	0	0
AO 20 Camp Phase II	0	0	0	0	34,000	34,000	650,000	0	0	0
AO 21 Youth Group Shelter	0	0	0	0	0	0	0	0	300,000	0
AO 28 Heating Renov., C.C.	102,301	(8,043)	0	94,258	30,000	124,258	0	0	0	0
AO 35 Beach Improvements	0	0	0	0	0	0	0	0	0	400,000
AO 36 Asphalt Parking Lot, C.C.	0	0	0	0	0	0	0	200,000	0	0
AO 37 Road Improvement	30,000	0	0	30,000	3,000	33,000	350,000	0	0	0
AO 38 New Golf Course	0	0	0	0	0	0	0	0	0	3,500,000
AO 39 Picnic Shelter-Lake	0	0	0	0	0	0	0	40,000	0	0
AO 40 Outside Walkway, Conc. Bldg.	50,000	(17,335)	0	32,665	0	32,665	0	0	0	0
AO 41 Pole Barn	0	0	0	0	0	0	0	0	50,000	0
AO 42 Conf. Cntr. Drive Improvement	0	0	0	0	0	0	0	0	0	150,000
AO 47 Pool Building	50,000	(2,200)	0	47,800	(47,800)	0	47,800	0	0	0
AO 49 Buel Lake Boathouse	0	0	0	0	0	0	0	0	60,000	0
AO 50 Trail Restoration	0	0	0	0	0	0	0	60,000	0	0
AO 51 Cabins, 4	0	0	0	0	0	0	40,000	0	0	40,000
AO 53 Primitive Camping, Group	70,000	(29,523)	0	40,477	0	40,477	0	0	0	0
AO 54 Semi-Modern Campsites	0	0	0	0	0	0	0	90,000	0	0
AO 55 Water Tower	0	0	0	0	25,000	25,000	0	0	0	0
AO 56 Wells	0	0	0	0	22,000	22,000	0	0	0	0
AO 57 Lagoon	0	0	0	0	10,000	10,000	100,000	0	0	0
AO 58 Restrooms, Camping Phase II	0	0	0	0	33,000	33,000	275,000	0	0	0
AO 59 Fire/Smoke Alarms, C.C.	0	0	0	0	20,000	20,000	0	0	0	0
AO 60 Fire Hydrant System, C.C.	0	0	0	0	15,000	15,000	0	0	0	0
<b>Total</b>	<b>\$337,301</b>	<b>(\$91,435)</b>	<b>\$0</b>	<b>\$245,866</b>	<b>\$148,200</b>	<b>\$394,066</b>	<b>\$1,462,800</b>	<b>\$740,000</b>	<b>\$410,000</b>	<b>\$4,020,000</b>

# 1997 Capital Improvement Budget and 4 - Year Forecast

( In Dollars )

as of 08/31/96

## Groveland Oaks

Project		1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
								1998	1999	2000	2001
GRO	1	\$6,338	(\$1,450)	\$0	\$4,888	\$10,000	\$14,888	\$0	\$10,000	\$0	\$0
GRO	20	0	0	0	0	0	0	0	100,000	0	0
GRO	23	25,000	0	0	25,000	0	25,000	0	0	0	0
GRO	29	0	0	0	0	0	0	275,000	0	0	0
GRO	24/25/28/34	497,115	(2,062,117)	1,565,002	0	0	0	0	0	0	0
GRO	36	22,598	(22,598)	0	0	0	0	20,000	0	0	0
GRO	37	625	(625)	0	0	0	0	0	110,000	0	0
GRO	38	0	0	0	0	0	0	0	0	3,000,000	0
GRO	41	50,000	(26,333)	0	23,667	(23,667)	0	0	0	0	0
GRO	42	0	0	0	0	0	0	40,000	0	0	0
GRO	43	30,000	0	0	30,000	15,000	45,000	0	0	0	0
GRO	45	0	0	0	0	120,000	120,000	0	0	0	0
<b>Total</b>		<b>\$631,676</b>	<b>(\$2,113,123)</b>	<b>\$1,565,002</b>	<b>\$83,555</b>	<b>\$121,333</b>	<b>\$204,888</b>	<b>\$335,000</b>	<b>\$220,000</b>	<b>\$3,000,000</b>	<b>\$0</b>

( A ) Subject to appropriate funding.



# 1997 Capital Improvement Budget and 4 - Year Forecast

## ( In Dollars )

as of 08/31/96

### Independence Oaks

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
IO 3 Nature Center Landscape	\$5,573	\$0	\$0	\$5,573	\$15,000	\$20,573	\$0	\$0	\$0	\$0
IO 14 Asphalt Improvements	0	0	0	0	45,000	45,000	500,000	0	0	0
IO 19 Fence SE Property	0	0	0	0	0	0	0	0	30,000	0
IO 25 Environmental Center-Exhibit	365,000	(45,000)	0	320,000	0	320,000	0	0	100,000	0
IO 28 Pioneer Lvg. Hist	0	0	0	0	0	0	0	0	35,000	0
IO 29 Path Trail Development	100,385	(385)	0	100,000	25,000	125,000	0	0	0	0
IO 37 Expand Beach Parking	150,000	0	0	150,000	0	150,000	150,000	0	0	0
IO 39 River Trail	15,000	(72)	0	14,928	(14,928)	0	0	0	0	0
IO 40 Nature Interpretive Pond	0	0	0	0	0	0	7,000	0	0	0
IO 42 Land Aquisition ( A )	0	0	0	0	0	0	200,000	0	0	0
IO 43 Nature Center Expansion ( B )	605,000	(582,616)	0	22,384	57,616	80,000	0	0	0	0
IO 44 Fuel Tanks	0	0	0	0	45,000	45,000	50,000	0	0	0
IO 47 5" Well	7,500	(6,440)	0	1,060	0	1,060	0	0	0	0
IO 49 Meadow Restoration	0	0	0	0	0	0	10,000	0	0	0
IO 51 New Shelter, Lake Point	0	0	0	0	50,000	50,000	0	0	0	0
IO 52 Play Lot, Pinegrove	40,000	0	0	40,000	0	40,000	0	0	0	0
IO 53 Limestone Trail, Lakeshore	0	0	0	0	0	0	50,000	0	0	0
IO 54 Restroom Renov., Boathouse (C)	36	(36)	0	0	55,000	55,000	0	0	0	0
IO 55 Moraine Knoll Playground	0	0	0	0	45,000	45,000	0	0	0	0
IO 56 Youth Camp	0	0	0	0	35,000	35,000	100,000	0	0	0
<b>Total</b>	<b>\$1,288,494</b>	<b>(\$634,549)</b>	<b>\$0</b>	<b>\$653,945</b>	<b>\$357,688</b>	<b>\$1,011,633</b>	<b>\$1,067,000</b>	<b>\$0</b>	<b>\$165,000</b>	<b>\$0</b>

( A ) Subject to \$150,000 Government Grant ; \$50,000 Park Funds

( B ) Subject to \$225,000 Government Grant ; \$150,000 Park Funds ; \$50,000 Oakland Parks Foundation

( C ) Grant from DNR \$24,500; Park funds \$20,500

**1997 Capital Improvement Budget and 4 - Year Forecast**  
**( In Dollars )**  
as of 08/31/96

**Orion Oaks**

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
OO 4 Park Development, Day Use	\$0	\$0	\$0	\$0	\$50,000	\$50,000	\$0	\$0	\$0	\$0
OO 5 Shelter Restroom	0	0	0	0	0	0	150,000	0	0	0
OO 8 Sewer System Development	145,265	(130,745)	0	14,520	0	14,520	0	0	0	0
OO 9 Docks	0	(19,568)	25,000	5,432	0	5,432	0	0	0	0
OO 10 Parking Lots	0	(7,553)	12,000	4,447	0	4,447	0	0	0	0
OO 11 Trail Development	0	(2,227)	15,000	12,773	0	12,773	0	0	0	0
OO 12 Master Plan Update	0	0	0	0	0	0	30,000	0	0	0
<b>Total</b>	<b>\$145,265</b>	<b>(\$160,094)</b>	<b>\$52,000</b>	<b>\$37,171</b>	<b>\$50,000</b>	<b>\$87,171</b>	<b>\$180,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

# 1997 Capital Improvement Budget and 4 - Year Forecast

## ( In Dollars )

as of 08/31/96

### Glen Oaks

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
GLO 1 Automatic Sprinkler System	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$0	\$0	\$0	\$0
GLO 2 Clubhouse Landscaping	0	0	0	0	25,000	25,000	0	0	0	0
GLO 8 Pave Cart Paths	0	0	0	0	20,000	20,000	0	0	0	0
GLO 12 Drainage Improvements	10,000	(9,093)	0	907	(907)	0	0	0	0	0
GLO 14 New Trees	21,017	(1,040)	0	19,978	7,000	26,978	0	0	0	0
GLO 19 Parking Lot Improvement	25,000	(18,060)	0	6,940	250,000	256,940	0	0	0	0
GLO 25 Flat Roof Repair	0	0	0	0	0	0	50,000	0	0	0
GLO 27 Clubhouse Addition	600,000	(278)	0	599,722	800,000	1,399,722	0	0	0	0
GLO 29 Drain, E/W	50,000	(22,967)	0	27,033	0	27,033	0	0	0	0
GLO 30 Protective Fencing	10,000	0	0	10,000	0	10,000	0	0	0	0
GLO 31 Storage Building Addition	30,000	0	0	30,000	(30,000)	0	80,000	0	0	0
GLO 32 Restroom Facility	75,000	0	0	75,000	0	75,000	0	0	0	0
GLO 33 Greens #4 & #5	0	0	0	0	0	0	60,000	0	80,000	0
<b>Total</b>	<b>\$821,017</b>	<b>(\$51,438)</b>	<b>\$0</b>	<b>\$769,579</b>	<b>\$1,081,093</b>	<b>\$1,850,672</b>	<b>\$190,000</b>	<b>\$0</b>	<b>\$80,000</b>	<b>\$0</b>

# 1997 Capital Improvement Budget and 4 - Year Forecast

## ( In Dollars )

as of 08/31/96

### Glen Oaks

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
GLO 1 Automatic Sprinkler System	\$0	\$0	\$0	\$0	\$10,000	\$10,000	\$0	\$0	\$0	\$0
GLO 2 Clubhouse Landscaping	0	0	0	0	25,000	25,000	0	0	0	0
GLO 8 Pave Cart Paths	0	0	0	0	20,000	20,000	0	0	0	0
GLO 12 Drainage Improvements	10,000	(9,093)	0	907	(907)	0	0	0	0	0
GLO 14 New Trees	21,017	(1,040)	0	19,978	7,000	26,978	0	0	0	0
GLO 19 Parking Lot Improvement	25,000	(18,060)	0	6,940	250,000	256,940	0	0	0	0
GLO 25 Flat Roof Repair	0	0	0	0	0	0	50,000	0	0	0
GLO 27 Clubhouse Addition	600,000	(278)	0	599,722	800,000	1,399,722	0	0	0	0
GLO 29 Drain, E/W	50,000	(22,967)	0	27,033	0	27,033	0	0	0	0
GLO 30 Protective Fencing	10,000	0	0	10,000	0	10,000	0	0	0	0
GLO 31 Storage Building Addition	30,000	0	0	30,000	(30,000)	0	80,000	0	0	0
GLO 32 Restroom Facility	75,000	0	0	75,000	0	75,000	0	0	0	0
GLO 33 Greens #4 & #5	0	0	0	0	0	0	60,000	0	80,000	0
<b>Total</b>	<b>\$821,017</b>	<b>(\$51,438)</b>	<b>\$0</b>	<b>\$769,579</b>	<b>\$1,081,093</b>	<b>\$1,850,672</b>	<b>\$190,000</b>	<b>\$0</b>	<b>\$80,000</b>	<b>\$0</b>

# 1997 Capital Improvement Budget and 4 - Year Forecast

## ( In Dollars )

as of 08/31/96

### Red Oaks

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
RO 1 Landscape Improvement	\$20,046	(\$10,579)	(\$4,411)	\$5,056	\$0	\$5,056	\$0	\$7,000	\$0	\$0
RO 8 Entrance Sign, G.C.	7,500	0	0	7,500	0	7,500	0	0	0	0
RO 15 Water Feature	0	0	0	0	40,000	40,000	800,000	0	0	0
RO 22 Tee Improvements	9,000	(9,354)	354	0	0	0	0	0	0	0
RO 35 Golf Irrigation System	20,000	0	0	20,000	0	20,000	0	0	0	0
RO 41 Entrance System, W.P.	30,000	0	0	30,000	0	30,000	0	0	0	0
RO 42 Heating/Cooling System, Pro Shop	7,500	0	0	7,500	0	7,500	0	0	0	0
RO 43 Fencing	0	0	4,411	4,411	0	4,411	0	0	0	0
RO 44 Entrance Sign, W.P.	7,500	(2,339)	0	5,161	0	5,161	0	0	0	0
RO 45 Cart Path	0	0	0	0	15,000	15,000	0	0	0	0
<b>Total</b>	<b>\$101,546</b>	<b>(\$22,272)</b>	<b>\$354</b>	<b>\$79,628</b>	<b>\$55,000</b>	<b>\$134,628</b>	<b>\$800,000</b>	<b>\$7,000</b>	<b>\$0</b>	<b>\$0</b>

# 1997 Capital Improvement Budget and 4 - Year Forecast

( In Dollars )

as of 08/31/96

## Springfield Oaks

Oakland County Parks and Recreation Master Plan

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
SO 2 Clubhouse Improvement	\$0	\$0	\$0	\$0	\$0	\$0	\$15,000	\$0	\$0	\$0
SO 4 Cart Path Improvement	5,000	0	0	5,000	10,000	15,000	0	0	20,000	0
SO 9 New Trees	9,667	0	0	9,667	0	9,667	5,000	0	5,000	0
SO 14 Gas Pump	82,082	(79,277)	0	2,805	60,000	62,805	0	0	0	0
SO 19 Greens & Tees Improvement	0	0	0	0	0	0	0	75,000	0	0
SO 20 Retaining Wall, G.C. Hole #1	34,770	(19,770)	0	15,000	(15,000)	0	0	0	0	0
SO 21 Clubhouse Roof Repair*	10,000	0	(10,000)	0	0	0	0	0	0	0
SO 22 Greens #18 Improvement	3,000	(8,816)	5,816	0	0	0	0	0	0	0
SO 24 New Golf Course Restroom	0	0	0	0	0	0	40,000	0	50,000	0
SAC 25 Fencing, A.C.	75,016	(47,457)	0	27,559	(27,559)	0	0	0	0	0
SAC 26 Paving, A.C.	174,548	(174,548)	0	0	0	0	0	0	0	0
SAC 27 Outdoor Lighting, A.C.	30,000	0	0	30,000	0	30,000	0	0	0	0
SAC 28 Building Addition, A.C. *	40,000	0	(40,000)	0	0	0	0	0	40,000	0
SAC 29 Outdoor Electric, A.C. *	0	0	0	0	0	0	0	10,000	0	0
SO 32 Replace Fencing, G.C.	0	0	0	0	0	0	20,000	0	0	0
SO 33 Irrigation System, G.C.	45,000	0	0	45,000	0	45,000	0	0	0	0
SO 34 Retaining Wall, G.C. Holes #10 & #18	0	0	0	0	30,000	30,000	0	0	0	0
<b>Total</b>	<b>\$509,083</b>	<b>(\$329,868)</b>	<b>(\$44,184)</b>	<b>\$135,031</b>	<b>\$57,441</b>	<b>\$192,472</b>	<b>\$80,000</b>	<b>\$85,000</b>	<b>\$115,000</b>	<b>\$0</b>

\*Funding from 4-H

Note: (SO = Golf Course)  
(SAC = Activity Center)

**1997 Capital Improvement Budget and 4 - Year Forecast**  
**( In Dollars )**  
as of 08/31/96

**White Lake Oaks**

Oakland County Parks and Recreation Master Plan

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
WLO 1 Irrigation Improvement	\$15,000	(\$892)	\$0	\$14,108	\$0	\$14,108	\$15,000	\$0	\$0	\$0
WLO 3 Cart Path Improvement	10,000	0	0	10,000	0	10,000	10,000	0	20,000	0
WLO 11 New Trees	0	0	0	0	0	0	4,000	0	0	0
WLO 12 Clubhouse Roof Improvement ( A )	0	0	0	0	0	0	0	150,000	0	0
WLO 14/18 ADA, Banquet Facility Improvements	115,000	0	0	115,000	3,000	118,000	0	0	15,000	0
WLO 17 Greens Imp., #7 & Renovate #8	47,502	(95,539)	48,037	0	12,000	12,000	19,000	0	0	0
WLO 21/25 Fencing	0	0	0	0	20,000	20,000	0	0	0	0
WLO 22 ADA, Front Entrance Ramp	20,000	(4,163)	0	15,837	0	15,837	0	0	0	0
WLO 26 Fairway Improvement, #18	12,853	(6,467)	0	6,385	0	6,385	0	0	0	0
WLO 28 New Golf Course Restroom	0	0	0	0	40,000	40,000	0	0	0	0
WLO 29 Replace Gas Tanks	0	11,277	0	11,277	0	11,277	0	0	0	0
WLO 30 Material Bins	0	0	0	0	25,000	25,000	0	0	0	0
WLO 31 Retaining Wall, #12 & #13	0	0	0	0	20,000	20,000	0	0	0	0
<b>Total</b>	<b>\$220,355</b>	<b>(\$95,785)</b>	<b>\$48,037</b>	<b>\$172,606</b>	<b>\$120,000</b>	<b>\$292,606</b>	<b>\$48,000</b>	<b>\$150,000</b>	<b>\$35,000</b>	<b>\$0</b>

(A) Private Funds

**1997 Capital Improvement Budget and 4 - Year Forecast**  
**( In Dollars )**  
as of 08/31/96

**Waterford Oaks**

Oakland County Parks and Recreation Master Plan

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
WAO 5 Winter Park Activity ( A )	\$2,020,030	(\$1,921,679)	\$0	\$98,351	\$0	\$98,351	\$150,000	\$0	\$0	\$0
WAO 8 Master Plan	15,000	(10,700)	0	4,300	0	4,300	0	0	0	0
WAO 14 Tennis Courts Replacement	0	0	0	0	0	0	170,000	0	0	0
WAO 15 Activity Center Improvement (Carpet)	0	0	0	0	10,000	10,000	0	200,000	0	0
WAO 20 Play Lot	0	0	0	0	0	0	0	0	30,000	0
WAO 34 Trail System	0	0	0	0	0	0	75,000	0	0	0
WAO 35 Picnic Shelter, Fridge	0	0	0	0	0	0	75,000	0	0	0
WAO 36 Parking Lot Improve., Admn Bldg.	0	0	0	0	50,000	50,000	0	0	0	0
WAO 38 Parking Lot, W.P.	0	0	0	0	100,000	100,000	0	0	0	0
WAO 39 Play Lot, Fridge	0	0	0	0	0	0	15,000	0	0	0
WAO 29/42 W.P. Complex Renovation	3,188,341	(3,210,237)	21,897	(0)	0	(0)	0	0	0	0
WAO 43 Storage Bldg.	0	0	0	0	0	0	25,000	0	0	0
WAO 44 Land Acquisition ( B )	275,000	(5,479)	0	269,521	105,479	375,000	0	0	0	0
WAO 45 Art Sculpture, Admin.	0	0	0	0	0	0	15,000	0	0	0
WAO 46 Fridge Toboggan Lift	0	0	0	0	125,000	125,000	0	0	0	0
WAO 47 Tennis Center Renov.	0	0	0	0	4,000	4,000	0	0	0	0
WAO 48 Gas Tank	0	0	0	0	30,000	30,000	0	0	0	0
<b>Total</b>	<b>\$5,498,371</b>	<b>(\$5,148,096)</b>	<b>\$21,897</b>	<b>\$372,172</b>	<b>\$424,479</b>	<b>\$796,651</b>	<b>\$525,000</b>	<b>\$200,000</b>	<b>\$30,000</b>	<b>\$0</b>

(A) \$250,000 State Grant; \$270,000 Park Funds

(B) \$172,500 MNRTF Grant; \$57,500 Park Funds



# 1997 Capital Improvement Budget and 4 - Year Forecast ( In Dollars ) as of 08/31/96

## Lyon Oaks

Project	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget	Four Year Forecast			
							1998	1999	2000	2001
LO 1 Fencing	\$10,001	\$0	\$0	\$10,001	\$35,000	\$45,001	\$0	\$0	\$0	\$0
LO 2 Trail Development	10,000	0	0	10,000	0	10,000	0	0	0	0
LO 3 Park & Golf Development	0	0	0	0	0	0	4,500,000	0	0	0
LO 4 Master Plan	30,000	0	0	30,000	0	30,000	0	0	0	0
LO 5 Entrance Sign	0	0	0	0	0	0	5,000	0	0	0
LO 6 Aquisition of Farmstead ( B )	0	0	0	0	300,000	300,000	0	0	0	0
LO 7 New Trees	10,000	0	0	10,000	0	10,000	0	0	0	0
LO 8 Land Acquisition ( A )	1,227,628	(5,035)	0	1,222,593	200,000	1,422,593	0	0	0	0
<b>Total</b>	<b>\$1,287,629</b>	<b>(\$5,035)</b>	<b>\$0</b>	<b>\$1,282,594</b>	<b>\$535,000</b>	<b>\$1,817,594</b>	<b>\$4,505,000</b>	<b>\$0</b>	<b>\$0</b>	<b>\$0</b>

(A) Subject to \$29,898 Government Grant; \$14,725 Park Funds & Subject to \$630,000 Government Grant; \$335,000 Park Funds

(B) Subject to \$210,000 Government Grant, \$90,000 Park Funds

\*Grant Funds

# 1997 Capital Improvement Budget and 4 - Year Forecast ( In Dollars ) as of 08/31/96

## Rose Oaks

<u>Project</u>	1996 Project Cost Estimate	Paid/ Awarded Through 8/31/96	Adjusted to Project Cost	1996 Project Balance at 08/31/96	Proposed New 1997 Projects	Proposed 1997 Capital Budget
ROSE 1 Fencing	\$100,000	(\$91,052)	\$0	\$8,948	(\$8,948)	(\$0)
ROSE 2 Entrance Sign	3,000	(925)	0	2,075	0	2,075
ADM 5 Land Acquisition	831,459	(840,682)	9,223	(0)	0	(0)
ROSE 3 Day Use Development	0	0	0	0	0	0
ROSE 6 Parking Expansion	0	0	0	0	18,000	18,000
ROSE 7 Trail Development	0	0	0	0	12,000	12,000
ROSE 8 Land & House Purchase	0	0	0	0	140,000	140,000
ROSE 9 Master Plan	0	0	0	0	0	0
<b>Total</b>	<b>\$934,459</b>	<b>(\$932,659)</b>	<b>\$9,223</b>	<b>\$11,023</b>	<b>\$161,052</b>	<b>\$172,075</b>

<u>Four Year Forecast</u>			
1998	1999	2000	2001
\$0	\$0	\$0	\$0
0	0	0	0
0	0	0	0
0	0	0	300,000
0	0	0	0
0	0	0	0
0	0	0	0
0	30,000	0	0
<b>\$0</b>	<b>\$30,000</b>	<b>\$0</b>	<b>\$300,000</b>

## Implementation Strategies

In order to accomplish the recommended actions during the next five years, it will be necessary to secure adequate funding. Although the primary sources for funding Oakland County parks and Recreation come from user fees, millage, and interest income, another substantial form of revenue is made up by grants and donations. This is especially true for projects involving land acquisition and capital improvements.

There are a variety of state funding sources available to local governments for park development—The Michigan Department of Natural Resources Recreation Division administers the Land and Water Conservation Fund (LCWF), the Michigan Natural Resources Trust Fund (MNRTF), and "Protecting Michigan's Future" (PMF) Recreation Bond.

Other funding is also available through other divisions. For example, the Federal Intermodal Surface Transportation Efficiency Act (ISTEA) grant program can be used for the construction of Safety Paths. The Forest Management Division is also another source of funding. It has established a community Forestry grant program that could help fund resource and educational material for interpretive displays.

---

**Appendix A  
Resolution of Adoption  
and Letters of  
Transmittal**

---

County of Oakland, } ss.  
STATE OF MICHIGAN, }

Anne Holden being duly sworn,

deposes and says that I am the Legal Rep of  
THE OAKLAND PRESS, a newspaper printed and circulated  
daily in Oakland County, Michigan, and that I held such position  
during the publication of the notice hereto annexed; that a notice  
of

Parks & Rec Recreation  
of which the annexed notice is a true copy, was published in the  
said OAKLAND PRESS

once immediately preceding the  
4 of January that the annexed printed copy of said notice  
was taken from the said newspaper. That the dates of

publication of said notice were  
January 3, 1997  
and further deponent sayeth not.

Anne Holden

Subscribed and sworn to before me this To day of

January A. D. 1997

Denise L. Davenport

NOTARY PUBLIC, OAKLAND COUNTY, MICHIGAN  
DENISE L. DAVENPORT  
Notary Public, Oakland County, Michigan  
My Commission Expires March 23, 1997

**NOTICE OF PUBLIC HEARING**  
at 9:00 a.m.  
**WEDNESDAY, JANUARY 8, 1997**

The Oakland County Parks and Recreation Commission will hold a public hearing at:

Oakland County Parks and Recreation Commission  
Administration Office  
2800 Watkins Lake Rd.  
Waterford, MI. 48328

for the purpose of receiving citizen input on the revision of:

**OAKLAND COUNTY PARKS & RECREATION MASTER PLAN**

Comments may be addressed at the public hearing or mailed to the above address.

January 3, 1997

OAKLAND COUNTY PARKS AND RECREATION COMMISSION MEETING  
PUBLIC HEARING  
January 8, 1997

The public hearing was called to order at 9:08 a.m. by Chairman Pecky D. Lewis, Jr. in the commission room of the Oakland County Parks and Recreation Commission's administration office.

COMMISSION MEMBERS PRESENT:

Chairman Pecky D. Lewis, Jr., Vice Chairman Ruth Johnson, Secretary Richard Kuhn, Jr., Lawrence Pernick, Kay Schmid, Richard Skarritt

COMMISSION MEMBERS ABSENT:

Fred Korzon, George W. Kuhn, Nancy McConnell, L. Brooks Patterson

ALSO PRESENT:

Parks and Recreation

Ralph Richard, Manager  
Jon Kipke, Assistant Manager  
Daniel Stencil, Chief of Parks  
Mike Thibodeau, Chief of Golf  
Joe Figa, Chief of Design/Development  
Frank Trionfi, Chief, Admin. Services  
Jan Pung, Public Comm. Officer  
Darlene Marion, Account Clerk I  
Mike Donnellon, Architectural Engineer I  
David VanderVeen, Director  
Ernie Baker, President  
John King, President  
Jennifer Gilman, Project Director  
Mara Radzwickas, Research Analyst  
Dick Carlisle, President  
Lucie Fortin, Landscape Architect

Central Services  
BBDO Advertising  
Nordhaus Research, Inc.

Carlisle & Associates, Inc.

The purpose of the public hearing was to discuss the revision of the recreation master plan. The master plan is a requirement of the Michigan Department of Natural Resources in order to allow the Parks Commission to apply for grants.

Mr. Carlisle and Ms. Fortin reviewed the revision process including evaluating the park facilities and analyzing the county's natural resources; determining facility and program deficiencies and needs; receiving input from staff and officials, including today's public hearing; and developing the plan for adoption.

Ms. Fortin noted that, as learned in the review process, implications in land development included the following: 1) demand for parks will increase; 2) less parkland will be available as development increases; and 3) the elderly and families with young children will be the groups showing the largest increase in park usage.

The action part of the master plan will include the Commission's mission statements and goals and objectives, plus the Capital Improvement Projects Budget with its five-year projection.

No questions were asked; therefore, the public hearing was declared closed at 9:27 a.m.

Richard D. Kuhn, Jr.  
Secretary

  
Karen Smith  
Recording Secretary

**RESOLUTION**

WHEREAS, the Oakland County Parks and Recreation Commission has reviewed the "1997 Parks Recreation Master Plan".

WHEREAS, the "1997 Parks Recreation Master Plan" goals and objectives were developed in response to the identified needs and deficiencies based on citizen surveys, and input from county and local governmental officials, parks and recreation department directors, and Oakland County Parks and Recreation Commission and staff members, and

WHEREAS, the "1997 Parks Recreation Master Plan" meets the Oakland County Parks and Recreation Commission's long-range goals, objectives, and financial funding, and

WHEREAS, the goals and objectives will assist the Oakland County Parks and Recreation Commission in determining future planning by lending direction while remaining flexible to allow for adjustments by creative and responsible management.

NOW THEREFORE BE IT RESOLVED that the Oakland County Parks and Recreation Commission adopts the revised "1997 Parks Recreation Master Plan".

Moved by Richard D. Kahan, Jr.

Supported by Ired Wozon

Date February 5, 1997

*Karen S. Smith*

**KAREN S. SMITH**  
Notary Public, Oakland County, MI  
My Commission Expires Feb. 1, 1999



*Community Planners  
Landscape Architects*

February 10, 1997

Oakland County Planning Department  
1200 North Telegraph  
Pontiac, MI 48341

Dear Sirs:

Enclosed please find a copy of the 1997-2001 Oakland County Parks and Recreation Master Plan that has been submitted to the Department of Natural Resources for approval. Your review and input on this plan would be appreciated.

The planning process included community a public survey and meetings with the Parks and Recreation Commission.

In you have any questions, please do not hesitate to contact me.

Sincerely,

CARLISLE/WORTMAN ASSOCIATES, INC.

Lucie Fortin, RLA

#147-07-9601  
LF:eb

cc: Ralph Richard, Manager  
Jeanne Powers, Program Manager, MDNR





*Community Planners  
Landscape Architects*

February 10, 1997

Oakland County Planning Department  
1200 North Telegraph  
Pontiac, MI 48341

Dear Sirs:

Enclosed please find a copy of the 1997-2001 Oakland County Parks and Recreation Master Plan that has been submitted to the Department of Natural Resources for approval. Your review and input on this plan would be appreciated.

The planning process included community a public survey and meetings with the Parks and Recreation Commission.

In you have any questions, please do not hesitate to contact me.

Sincerely,

CARLISLE/WORTMAN ASSOCIATES, INC.

Lucie Fortin, RLA

#147-07-9601  
LF:eb

cc: Ralph Richard, Manager  
Jeanne Powers, Program Manager, MDNR

---

# **Appendix B**

## **Summary of Survey**

### **Findings**

---

**SUMMARY OF DETAILED FINDINGS  
1996 Oakland County Parks Research Study**

**State, Metro or County Park Usage on a Regular Basis**

- Regular park usage, for state, metro and county parks combined (55%) has increased by 8 percent in the past five years
- This rise is apparent across all age groups, but most prominent among those over age 45
- The increase among those with children is 19%

**Two State, Metro or County Parks Visited Most (UnA)\***

- Kensington and Stony Creek were mentioned most
- Independence Oaks made the top five ranking with an 8 percent mention

**Past Year Visits to State, Metro or County Parks (A)\*\***

- Nearly one-third (32 percent) visited a park 1-5 times in the past year

**Unaided Oakland County Park Recall (UnA)**

--Without prompting, respondents named:

	1996		1991
Addison Oaks	13%	Kensington	17%
Independence Oaks	12%	Stony Creek	14%
Kensington	11%	Independence Oaks	12%
Waterford Oaks	9%	Addison Oaks	11%
Groveland Oaks	6%	Dodge Park	8%

and the other parks at various lower percentages

\*Unaided Question

\*\*Aided Question

### **Oakland County Parks Visited in the Past Year (A)**

-- When read a list of the 11 County Parks, respondents said they had visited:

	<b>1996</b>
Addison Oaks	17%
Independence Oaks	15%
Waterford Oaks	11%
Groveland Oaks	9%
Red Oaks	7%
Glen Oaks	6%
Springfield Oaks	6%
White Lake	5%
Orion Oaks	3%
Lyon Oaks	1%
Rose Oaks	--
None	51%

### **Reasons for Not Visiting Oakland County Parks (UnA)**

-- Busy schedule/other things to do	20%
-- No information/lack of awareness	17%
-- Prefer other parks/locations	13%
-- Inconvenient location/too far	9%

### **Sources of Information About Oakland County Parks (A)**

-- When read a list of choices, primary sources indicated were:

-- Friends/relatives	45%
-- Park is in the area	33%
-- Oakland County parks brochure	9%
-- Newspaper	5%
-- Community recreation booklet	3%

## Overall Satisfaction with Oakland County Parks

- The **sub-group of park users** was asked to express level of satisfaction with Oakland County parks
  - Very satisfied 62%
  - Somewhat satisfied 30%
  - Somewhat dissatisfied 1%
  - Very dissatisfied 2%
  - Don't know 5%

## Reasons for Dissatisfaction (UnA)

- Inconvenient location 4 respondents
- Need to publicize more 2 respondents
- More money in/build facilities 1 respondent
- Difficult golf play-too many leagues 1 respondent
- Costs too much 1 respondent
- Need more natural wildlife areas 1 respondent

## County Parks Appeal Compared to Other Parks

- 49% felt the County Parks were more appealing than other parks (compared to 31% in 1991)

## Reasons County Parks are More/Less Appealing (UnA)

- The reasons the parks were more appealing:
  - Well maintained/clean 49%
  - Convenient locations/close to home 22%
  - Variety of activities offered 16%
  - Facilities (snack bars, restrooms, etc.) 13%
  - Overall appearance 8%
  - Safe/security 6%
  
- Reasons the parks were less appealing:
  - They offer less 21%
  - Not well maintained 16%
  - Smaller 13%
  - Inconvenient location 11%
  - Crowded 11%

## Oakland County Parks Value to the Community

- 74% strongly agreed that Oakland County park are a valuable asset to the community
- 65% strongly agreed that Oakland County Parks provide an important contribution to quality of life

## Environmental Education for Children

- 89% of all respondents felt that Oakland County Parks should play a role in the environmental education of young people

## Transporting Children to Overnight Camp

- 37% were very likely to transport their children to an overnight camp at Oakland County Parks
- 37% were somewhat likely to transport their children to an overnight camp at Oakland County Parks

## Programs for Special Interest Groups (UnA)

- Participants were asked to list the special interest groups for which Oakland County Parks should provide special accommodations
  - Physically impaired 18%
  - School groups 14%
  - Senior citizens 13%
  - No groups/treat all the same 13%
  - Scout groups 8%

Facilities, Services or Activities Ever Used	Likely Participation in Recreational Activities (in rank order)
Hiking 34%	Picnicking
Golfing 29%	Hiking
Waterparks 27%	Nature programs
Picnicking 15%	Swimming
Swimming 15%	Waterparks
Camping 10%	Environmental programs
Mountain Biking 7%	Golf
Fishing 5%	Tobogganing
Boating 4%	Camping
Cross-Country Skiing 4%	Boating
Nature Programs 4%	

### **Priorities for Parks Future Efforts**

- 59% feel first priority should be to acquire property to protect wildlife/natural habitat
- 27% feel first priority should be to acquire property to protect open spaces for recreation opportunities
- 11% believe the first priority should be to acquire property to preserve regional rural heritage, such as horse farm or a working farm

### **Approximation of Property Tax on \$100,000 Home**

- Respondents were asked how much they thought the average homeowner paid in annual property taxes to support the county parks
  - 43% didn't know
  - 15% \$16-25
  - 13% Under \$15
  - 10% \$26-50
  - 10% Over \$100
  - 9% \$51-100

### **Support of Tax Increase for Park Funding**

- Respondents were asked how willing they would be to support a \$6.25 tax increase (1/8 mill) on a \$100,000 home
  - 36% very willing
  - 31% willing
  - 18% undecided
  - 7% very unwilling
  - 6% unwilling
  - 2% don't know/refused

### **Leisure Activity Sources**

- Respondents were asked what sources they use to learn about things to do in their leisure time
  - Suburban Newspapers 41%
  - Detroit Daily Newspapers 26%
  - Radio 7%
  - Word of mouth/friend/relative 6%
  - Television 5%
  - Local magazines 4%

### **Internet for Activity Ideas**

- 54% have a personal computer
- Of those with PC, 74% would access the Internet for information on things to do or places to go locally

## **SUMMARY OF SIGNIFICANT FINDINGS BY QUADRANTS 1996 OAKLAND COUNTY PARKS RESEARCH STUDY**

Participants residing in Quadrant 1 (Clarkston/Holly area) use parks regularly, more frequently than any of the other three divisions.

Those residing in Quadrant 3 (Novi/Farmington/Southfield area) were the most likely to feel the county parks were more appealing than other parks.

Respondents living in Quadrant 1 (Clarkston/Holly area) could name more county parks, correctly, than any other area.

Quadrant 3 residents (Novi/Farmington/Southfield area) were nearly two times as likely to have no awareness of the county parks, than were those in the other quadrants.

Quadrant 2 residents (Pontiac/Rochester/Bloomfield area) used the county parks more frequently than those living in any other county divisions.

Park-users residing in Quadrants 1 (Clarkston/Holly area) and 2 (Pontiac/Rochester/Bloomfield area) were more likely to be satisfied with the county parks than those living in Quadrants 3 (Novi/Farmington/Southfield area) and 4 (Troy/Royal Oak area).

Residents in Quadrant 1 (Clarkston/Holly area) more frequently believed that the county parks added value to the community than those living in the rest of the county. The residents were also more convinced that the parks contributed to a better quality of life, however, by a smaller margin.

Quadrant 3 (Novi/Farmington/Southfield area) residents were slightly more willing to support the tax increase than were respondents living in the other three county divisions.



---

**Appendix C  
Oakland County Parks  
and Recreation  
Commission Retreat -  
April 19, 1996  
S.W.O.T.**

---

### Strengths

- Resident support
- Park locations throughout county
- Access for most
- Protection of environment
- Safety
- Well-trained staff
- Financial support (tax base)
- Clean/neat parks
- Ability to upgrade
- Variety of activities
- Proactive park system
- Minimal user fee
- Being #1 in building facilities; innovative
- National reputation
- Progressive county
- Have support of the county body
- Sellable product
- Freedom of operation
- Excellent parks commission
- Have own funding
- We prove our value
- Treat our park users well
- Public/private partnerships

### Weaknesses

- Lack of parks in the south end of the county
- Lack of immediate development dollars
- Development cost
- Forced to have temporary help (1,000 hours)
- Cash business exposure
- Identity problem
- Transportation access to some of the parks
- Ethnic relationship/understanding
- Competition with other park authorities in certain areas
- Coordination of planning activity with other agencies
- Golf dome image (quality)
- Renewal of 1/4 millage/reliance on millage
- Lawsuits/liability exposure
- Lack of facilities in the southeast portion of the county]
- High maintenance in aging facilities



2057102

OAKLAND COUNTY RESEARCH LIBRARY  
1200 N. TELEGRAPH ROAD DEPT 403  
PONTIAC, MICHIGAN 48341-0403

Opportunities

- Three undeveloped parks
- Expansion of existing parks
- Acquiring available facilities
- Acquire additional land
- Grants
- Serving a broadening base
- Private/public ventures
- Recognition of park system
- Increasing usage/increasing revenue
- More year-round facilities
- Surveys (customer based)
- Multi-use parks
- Special interest groups
- Education of lifelong leisure skills
- Natural resource
- Public relations in general to make us better known
- To work closer with HCMA
- Media

OAKLAND COUNTY RESEARCH LIBRARY  
1200 N. TELEGRAPH ROAD DEPT 403  
PONTIAC, MICHIGAN 48341-0403

OAKLAND COUNTY RESEARCH LIBRARY  
1200 N. TELEGRAPH ROAD DEPT 403  
PONTIAC, MICHIGAN 48341-0403

Threats

- Reduced future funding
- Increased crime with increased population
- Increased popu
- Non-renewal of
- Unavailability of
- Competition of
- Water quality
- Less summer t
- Natural Disaste
- Increased viole
- Aging parks sy
- Public percepti
- Aging equipme
- Government re
- Community res