

TOWN OF ALFRED
COMPREHENSIVE PLAN

VOLUME 2:
DATA INVENTORY AND ANALYSIS

2002

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TOWN OF ALFRED

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CHAPTER 1: INTRODUCTION

Overview

This is Volume 2 of the 2000 Comprehensive Plan for the Town of Alfred, Maine. The Comprehensive Planning Committee used the 1991 Plan as a guide for developing the new Plan.

Volume 2 deals with the inventories and analysis of existing conditions of the following topics:

- Population
- Local Economy
- Housing
- Transportation
- Public Facilities
- Recreation
- Water Resources
- Agricultural and Forest Resources
- Historic and Archeological Resources
- Land Use
- Fiscal Capacity

In brief, the inventory and analysis of each topic includes:

- A discussion of recent trends that will provide a picture of where the Community has been and where it is headed.
- A description of existing conditions.
- Projections where appropriate.
- An analysis of issues and implications. What problems or issues are raised by the information collected and how serious are they? If certain trends continue, what will the impact be on the Community? Do the issues raised deserve specific attention in the Policy section of the Comprehensive Plan? Analyzing issues and implications is the link between the inventory and the formulation of policies.

Basically, the Inventory section gives the Comprehensive Planning Committee the information necessary to create a foundation in which the future Policies can be constructed.

The Comprehensive Plan will be a guide for managing town affairs in the future. The Plan provides a blueprint of what the town wishes to be and makes recommendations for following the blueprint. It serves the following functions:

1. An up-to-date Comprehensive Plan serves as a legal foundation for the town's zoning regulations and other ordinances. Any legal challenge of town ordinances will be based primarily on whether they are consistent with the town's Comprehensive Plan.

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2. It sets a coordinated strategy for the town's future, based on the desires of the citizens and on the assessment of current conditions and anticipated needs.
3. It offers guidance to Town Boards, committees and other decision-makers, by providing a set of voter-approved goals, policies, and recommended implementation steps.
4. The plan serves as a framework for fiscal planning and developing a Capital Improvement Program.
5. It provides a forum for ongoing public discussions about the community's future.
6. It summarizes and analyzes background information on the town's natural, fiscal, and economic resources, its facilities and services, and its growth and land use trends.

Although the Comprehensive Plan must be approved by voters at town meeting, it is not an ordinance or regulatory document. Recommendations are made for zoning revisions and capital investments, but these items require consideration and approval at subsequent town meetings before they actually go into effect.

The Comprehensive Plan is intended to provide direction, not dictate an inflexible course of action. The plan can be revised at anytime by town meeting vote.

Comprehensive planning is essentially a process, and the document should reflect changing conditions and priorities. It is recommended that the Plan be reviewed and updated every 5 years and completely revised every 10 years to reflect new information, emerging planning issues, and changing citizen attitudes.

Maine State Goals

Guidelines recommend that Comprehensive Plan policies "shall promote the following State goals":

1. To encourage orderly growth and development in appropriate areas of each community, while protecting the State's rural character, making efficient use of public services and preventing development sprawl;
 2. To plan for, finance and develop an efficient system of public facilities and services to accommodate anticipated growth and economic development;
 3. To promote an economic climate that increases job opportunities and overall economic well-being;
 4. To encourage and promote affordable, decent housing opportunities for all Maine citizens;
 5. To protect the quality and manage the quantity of the State's water resources, including lakes,
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aquifers, great ponds, estuaries, rivers and coastal areas;

6. To protect the State's other critical natural resources, including without limitation, wetlands, wildlife and fisheries habitat, sand dunes, shorelands, scenic vistas, and unique natural areas.
7. To protect the State's marine resources industry, ports and harbors from incompatible development and to promote access to the shore for commercial fishermen and the public;
8. To safeguard the State's agricultural and forest resources from development which threatens those resources;
9. To preserve the State's historic and archeological resources; and
10. To promote and protect the availability of outdoor recreation opportunities for all Maine citizens, including access to surface waters.

Organization Of The Comprehensive Planning Committee

In September 1998, the selectmen appointed a volunteer committee for a term necessary to finish the plan. They charged the Committee with developing a Comprehensive Plan for managing growth over the next decade. The Southern Maine Regional Planning Commission (SMRPC) provided some assistance in data collection.

<u>Funding sources for the planning processes are:</u>	
Town Appropriation	<i>\$3,325.00</i>
State Planning Grant	<i>\$10,000.00</i>
Total:	<i>\$13,325.00</i>

Starting in September 1998, the Planning Committee met monthly and in March 2001 the committee met weekly. It announced meetings, all being open to the public. Committee members attended the regular meetings, SMRPC workshops and seminars. They worked extra hours collecting data. They held public forums for the Town of Alfred and worked on three public opinion surveys. Committee members spent time communicating with Regional and State Agencies, by phone, mail and e-mail. They conferred with town officials, various town committee members, and interested town residents.

The Planning Process

The State Guidelines require that the planning process should include following stages:

1. **Inventory and Analysis.** A comprehensive plan shall include an inventory and analysis section addressing state goals under this subchapter and issues of regional or local significance the municipality considers important. The inventory must be based on information provided by the State, regional councils, and other relevant local sources. The

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analysis must include 10-year projections of local and regional growth in population and residential, commercial and industrial activity; the projected need for public facilities; and the vulnerability of and potential impacts on natural resources.

2. **Policy Development.** A comprehensive plan must include a policy development section that relates the findings contained in the inventory and analysis section to the state goals.
3. **Implementation Strategy.** A comprehensive plan must include an implementation strategy section that contains a timetable for the implementation program, including land use ordinances, ensuring that the goals established under this subchapter are met. These implementation strategies must be consistent with state law and must actively promote policies developed during the planning process. The timetable must identify significant ordinances to be included in the implementation program. The strategies and timetable must guide the subsequent adoption of policies, programs and land use ordinances.
4. **Regional Coordination Program.** A regional coordination program must be developed with other municipalities to manage shared resources and facilities, such as rivers, aquifers, transportation facilities and others. This program must provide for consistency with the comprehensive plans of other municipalities for these resources and facilities.
5. **Implementation Program.** An implementation program must be adopted that is consistent with the strategies in subsection 3.

Community Profile

Alfred, Shiretown of York County, is the geographic center of the fastest growing county in Maine. It is an old-time community. The town retains the characteristics of a typical New England Village.

The rural atmosphere, created by the physical setting, the substantial architecture and the friendly townspeople appeal to Alfred's citizens. These attributes are attractive to others as well. Perceiving the area as having a superior quality of life, people are migrating to Maine in increasing numbers.

Physical Setting

The last ice age created the town's present physical surface. Thick sheets of ice carved away the stratified Devonian-period rock, and, 14,000 years ago, the glaciers receded from Alfred. The mantle of ice and rock created the hills, valleys, flatlands and surface waters that comprise the raw land. The topography, soil composition, hydrology, and vegetation determined how the original settlers selected their home sites.

To the northwest of present route 202 the soil is chiefly coarse glacial till. The southeast end of town has soil resulting largely from deposits of glacial melt water, consisting of sand and gravel deposits. In the Gore, a narrow strip of ice contact deposits follows the course of the Middle Branch Stream. A larger area of ice contact deposits runs across the middle of Alfred, in the village area, in a north south

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direction. The ice contact deposits, often 100 feet thick, consist of sand, gravel, cobbles, and boulders. These areas contain sand and gravel aquifers. They are the best sources of large supplies of groundwater. Under favorable conditions they may yield up to 1,000 gallons of water per minute.

There are two distinct topographical areas, roughly made up of the southern and the northern parts of town. Southern Alfred has the lowest elevations above sea level, near Hay Brook and Estes Lake. From the tip of southern Alfred up to the center village, the land is generally flat, and is 200 to 250 feet above sea level. This flat plain is the inner margin of the continental shelf, occupying the southern end of town, including the village, up to the foot of Brackett Hill.

In northern Alfred, the highest elevations start abruptly at Brackett Hill (480 ft.) and Yeaton Hill (600 ft.) and extend northward through town. The highest elevation is 1020 feet on Fort Ridge at the Shapleigh town line. The steepest slopes occur on the eastern faces of Brackett and Yeaton Hills, and on Fort Ridge. The developed areas in the Alfred Gore are generally 400 to 600 feet above sea level.

Middle Branch Pond is situated 419 feet above sea level. Shaker Pond is 230 feet and Estes Lake is 215 feet.

Topography and surficial geology define the town's physical features. These features include: soil type, forest cover, vegetation, slope, surface waters, ground water, wetlands, wildlife habitat, and hazard areas - features that define the land's suitability for development.

Historically, these variations in the land influenced the settlement patterns. The early residents generally took the prime locations. Today, suitability of Alfred's undeveloped land will dictate where the town grows.

Geographic Setting

Maine has four regions: (1) the Coastal Lowlands, (2) The Hilly Inland Belt, (3) The Mountain Division in the Northwest, and (4) the Upland Plateau in the far north. Alfred is on the edge of the Coastal Lowlands, and the northern end of town lies where the Hilly Inland Belt begins. This location influences the town's climate and land use patterns.

Ports, cities and seacoast resort communities lie to the Atlantic side of Alfred. To the South are Portsmouth & Kittery with long shipbuilding traditions and where the Portsmouth Naval Shipyard and Pease International Trade Port provide employment to many Alfred residents. The beaches of York, Ogunquit, Kennebunk, Wells and Old Orchard are only a half-hour's drive. The Scarborough Marsh and South Portland are also a half-hour away.

The historic port of Portland has diverse employment opportunities, shopping centers, financial districts, and cultural attractions. The city has a class AA professional baseball team and a professional hockey team. The jetport and international ferry give Alfred quick accesses to long distance travel. The commuting time is forty minutes for Alfred residents employed in the Greater Portland area.

A drive inland reaches mountains, major lakes, ponds, rivers, streams, and wilderness areas.

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These areas support a large tourist industry, as does the coastal division. They offer skiing, snowmobiling, ice fishing, hunting, fishing, hiking, bird-watching, camping, sight-seeing, foliage trips, white-water rafting, and many other outdoor activities.

Climate

The town's climate shares features common to both the coastal area and to the hilly inland area. Located in York County where the coast faces south, Alfred has a landmass to its south. The climate is warmer than the rest of the state, resembling that of southern New Hampshire.

The weather is warmer in the summer, and colder in the winter than it is nearer to the coast. There are more clear days annually than along the coast because the coastal fog usually doesn't penetrate into Alfred. East and southeast winds bring oceanic influences, whereas winds from the northwest, west and south bring interior effects.

When the prevailing northwest winds carry wet air over the higher elevations down into Alfred and the coastal area, the air dries out. Thus, it may be unsettled in the interior and clear in Alfred.

In summer, when the wind is out of the east or southeast, Alfred may have a cooling sea breeze and sometimes coastal fog. In the winter, such a southeast wind may bring rain in Alfred and snow in the mountain area.

In winter there are sometimes differences in weather conditions between the northern and the southern sections of the town. Low-lying clouds may decrease visibility in the north, but not in the south. Icing conditions may occur at the higher elevations, but not in the southern end of town.

History

The first humans to inhabit Alfred arrived about 12,000 years ago. They remained undisturbed until the period of discovery began in 1498 and continued through 1604. France and England contested for dominion of Maine. The locale that would later become Alfred remained largely under English control. Colonization of the Maine coast started in 1622.

Until the fall of Quebec to the English in 1759, continual conflict resulted in five wars between the English, French and Indians. Because of the wars and destruction, people did not settle in the interior areas. They preferred to live in the coastal areas, near rivers. The French surrendered Canada in 1760. After the Treaty of Paris in 1763 the British dominated North America. Settlement of interior regions of Maine began shortly after the end of hostilities.

The first settler, Simeon Coffin of Newbury, Massachusetts, arrived in 1764. He settled on the north side of Massabesic Pond (now called Shaker Pond). The early settlers who followed him lived, as he did, in wigwams and later in rough cabins. Soon, they built permanent homes. Daniel Gile built the town's first two-story house around 1765. The home, owned by an unbroken succession of Gile heirs, still stands today on Federal Street.

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Within twenty years there were sawmills, gristmills, a forge, a brickyard, tanners, and potters. The first school began in 1770. The settlers provided for their needs with handmade tools, including spinning wheels, cobbler's tools, and furniture. What they needed they had to make. They fished and hunted; they preserved their meat by pickling and smoking; they raised Indian corn for their bread and pudding. They cleared the land; they built the stonewalls that stand today. Each family was a self-sufficient unit.

The town of Sanford incorporated in 1768, and included Alfred, then called "Massabesic." Later the town became the "North Parish of Sanford." Finally the town became "Alfred" in 1794 when it separated from Sanford.

In 1799 the population was 400, with 122 taxpayers. There were ten sawmills and six gristmills. Other industries included pottery, tanning, and a brickyard. The roads developed from existing Indian trails.

A thriving lumber industry developed, and it influenced subsequent land use patterns. After cutting the timber, the settlers used the cleared land for crops and pasture; they developed an agricultural economy. They cut virgin pine for the lucrative mast trade, and named "Mast Road." The lumber business continued until recent times, with many saw mills operating on local streams.

The Shakers became an important part of the community in 1781 and built a meetinghouse in 1794. They originally owned 1000 acres between what is now Bunganut Lake and Shaker Pond. They organized the Shaker Community in 1793.

At its zenith, the Shaker community had more than fifty buildings. The converts continued to grow so that a second family became necessary by 1800 and still another by 1805. After nearly 150 years, the Shakers went into decline. In 1931 the twenty-one-surviving members joined the Sabbathday Lake Community, thus ending the Alfred Shaker Community. The Shakers sold the property to the present owners, the Brothers of Christian Instruction, who named it the Notre Dame Institute.

Beside the Shakers there were in the early 1800's a Congregationalist, a Baptist and a Methodist Episcopal Church. A Free Baptist Church, built at Alfred Mills in 1855, became the Alfred Grange in 1935 and it is now a commercial building.

Historians separate the early residents into three categories: (1) merchants and professional men of the village, (2) mechanics and manufacturers, of which lumber was the principal business, and (3) farmers. Each of these classes decreased in numbers after 1845 until they began to increase again in 1867.

Between 1800 and 1820, residents built most of the principal buildings now standing in the village. At this time all local courts were centered in Alfred. After Alfred became the York County Shiretown in 1806, the County Court House was built in 1807, at a cost of \$3,499.99. The Methodist Church, located on the courthouse lawn, was dedicated in 1834, and was demolished in 1932.

Many professional men moved to town and built substantial homes that are now listed in the Alfred Comprehensive Plan, Volume 2: Data Inventory

National Register of Historic Places in the State of Maine.

In 1820, Maine became a state. John Holmes, an Alfred resident, helped achieve Maine's separation from Massachusetts. He was one of Maine's first two United States Senators. "The John Holmes House" on the Waterboro Road was called the "Bow and Arrow House" because of the elaborate balustrade that included bows with arrows. The arrows pointed downward to express "friendship toward the Indians."

Alfred flourished between 1830 and 1845, a period of prosperity roughly coinciding with what historians describe as "Maine's Golden Age."

The railroad reached Alfred from Waterboro in 1864; continued west, reaching Rochester in 1871. Then the name was "The Portland and Rochester Railroad." During the busiest years from 1910-1920, more than thirty trains a day passed through Alfred. The last passenger service ended in 1949, and the last train ran in 1961. The railroad further strengthened Alfred's status as a shire town.

Before and after the Civil War, Alfred went into a moderate decline, reaching its lowest ebb in 1867. Westward migration caused part of the decline. The farm population decreased, the lumber industry declined, and the local economy suffered. By 1866, only one store remained and that one burned in 1867; the old Griffin Hotel burned the same year.

Alfred did not suffer from out-migration as much as many other towns. Being the county seat, the town attracted many professionals. Service businesses grew to support the professional population. The town remained a trade center and had a substantial agricultural economy. Alfred maintained a stability that has characterized most of its history. For over a century and a half, the population has fluctuated much less than it has in most other Maine towns of similar size.

Industrial development never occurred to any degree. By not being heavily dependent upon a specific economic sector, the town escaped the effects of sharp changes in the business cycle. More recent years saw operations in camping trailers, plastics molding, and machine shops, among others, but Alfred has never provided any substantial industrial employment.

The past fifty years have been a period of relative stability. During this time, development in Maine has shifted from rural to urban areas. Alfred has remained a rural residential community; there has been an increase in home based business and occupations, which was encouraged by the prior comprehensive plans. Today, most of employed residents work in another town.

In 1947, when widespread forest fires burned throughout Maine, Alfred lost 4,500 acres of woodland and two residences. North Alfred burned above Gebung and Avery Roads; a strip in southeast Alfred burned along the Lyman town line. The 1954 hurricane destroyed a relic of colonial times: "The Whipping Post Tree" located on what was then Dr. Richards' front lawn.

Alfred residents have served in all America's wars since the Revolution. The community honors its servicemen and servicewomen each year on appropriate holidays. The American Legion is active. A succession of individuals representing veterans' organizations have continued to place flags on veterans' Alfred Comprehensive Plan, Volume 2: Data Inventory

graves.

Faced with rapid growth, Alfred wrote its first comprehensive plan in 1973. In December 1981 the town voted to enact a building moratorium for nine months while the Planning Board revised the 1973 Comprehensive Plan and the Zoning Ordinances. The town took this action because the population had increased by 56% during the previous decade. The 1983 Comprehensive Plan projected that the 1990 population, based upon an average annual growth rate of 5.6% would be 2,950. However, this projection was substantially overstated. In fact, the true population was only 2,238. Ten years later, the town grew in population to 2,497. In the year 2002, because of the threat of unregulated development, the town voted to limit the number of building permits to 40. Appendix A includes the goals and policies of the 2002 Comprehensive Plan.

Alfred Today

Municipal operations continue to be directed by a three-member board of selectmen. The Town Meeting form of government has continued for over two and a half centuries.

The town budget supports cultural facilities and services, such as the Parsons Memorial Library, and summer band concerts. Social service organizations receive community tax support. The Town Hall and the Conant Chapel are available for cultural and recreational activities. A recreational program offers a variety of activities.

Volunteers maintain public safety. A 1999 Public Opinion Survey gave high ratings to the Fire Department and the Alfred Rescue Service. Police protection continues to be by the York County Sheriff's Department and State Police.

Properties in the Village and throughout the rest of the town are largely well maintained. Alfred's character is that of a pleasant and attractive community. Memorial Day observations continue. There is an Alfred Summer Festival, with a parade, entertainment, a Lions' Club breakfast of pancakes and sausage, refreshment stands, crafts, and a chicken barbecue at the Conant Chapel. At Christmas, there are town-wide decorations, and the Village Center is especially well decked-out. Winter sporting activities include skating at the Brothers, Shaker Pond and Estes Lake; cross-country skiing, ice fishing, and snowmobiling.

The population of Alfred increased 32% over the last twenty years. Rising real estate prices are putting home ownership out of reach for many first time buyers. More people need more housing, more educational facilities, more public safety, and more transportation facilities. All this requires additional municipal revenues. Uncontrolled growth will threaten the community's remaining natural resources - those resources that give the town its unique rural character.

In spite of the pressures of rapid growth, Alfred has retained its identity. It is still a "Classic New England Village."

Public Participation In Planning

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In developing Alfred's 2000 Comprehensive Plan, the committee has encouraged public awareness and interest. The ultimate success of this plan depends upon public participation. The committee tried to involve Alfred citizens in every stage of the planning process.

In November of 1999 the 2000 committee mailed the same survey used by the previous Comprehensive Planning Committee and a second survey was given out at a public forum in April 2001.

There is a summary of these first surveys in Town of Alfred, Comprehensive Plan, Volume 1: Plan Summary. For a complete tabulation of the survey results, see Appendix C, Volume 2.

The committee held Public Forums. The first was on December 12, 2001 when the planning process and first survey results were reviewed. Members of all the town committees were invited.

On April 29, 2002, the next public forum was held. It concentrated on growth, transportation and open space planning.

The final public form was held on May 30, 2002, which reviewed much of the information from past forums.

The committee used the information, opinions, and suggestions from the surveys and forums to write the goals and policies, and implementation strategies contained in Volume 1, Plan Summary.

The committee regularly included news in the quarterly Alfred Newsletter mailed to residents by the Selectmen's Office. The committee supplied news items to the local correspondents for the weekly Sanford News and Biddeford Journal Tribune for publication in the Alfred News section. The committee announced Public Forums in the Smart Shopper, and the Alfred Newsletter.

Both the regular and any unscheduled committee meetings were posted at the town hall. The committee has frequently requested public involvement through committee membership or volunteer efforts in specific areas.

The committee has obtained valuable data and opinion input from: municipal officials, service organizations and committees, the library board, historical committee and society, area agencies, businesses, Southern Maine Regional Planning Commission and from concerned individual residents.

The state gave presentations on urban sprawl and transportation issues.

Committee members entered Map and lot information into Arc View Geographic Information System (GIS) and entered actual acreage's into the Property Database. The 911 database was created to align residents of Alfred with the map and lot identifiers.

Throughout the Planning Process, committee members encouraged people to participate and they tried to get "one-on-one" opinions from their friends and neighbors.

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CHAPTER 2: POPULATION

Components Of Population Change

The two components of population change are “*natural increase*” and “*net migration.*” *Natural increase* (or decrease) in any area is the result of births minus deaths. *Net migration* is the number moving into any area minus the number moving out, and is described as either *net in-migration* or *net out-migration*.

“*Net population increase*” (or decrease) is the arithmetic sum of the above two components.

The Past

Alfred’s population has *doubled* since 1970. However, it was only during the 1970s that the town regained the population it had over a hundred years ago. The town’s previous population peak was 1,319 in 1850. In the period following the Civil War, Alfred’s population steadily declined, reaching its low point with the 1920 Census. During this era of heavy industrial development, Maine experienced a population shift to urban areas. In Alfred, residents moved because of employment opportunities in Sanford, Biddeford/Saco, and the greater Portland areas. The “Westward Expansion” phenomenon also caused out-migration as New England farmers gave up on a rock-filled landscape for the fertile soils of the mid-west.

Alfred’s population had increased at a gradual and steady rate for 50 years, rising from 739 to 1,211 residents in 1970. Between 1950 and 1970 the town’s population increased by less than 100. Then a period of more rapid regrowth began in the 1970s. Many people moved “back to the land”, seeking to exchange a debilitating urban existence for what was perceived to be a better quality of life in small urban or rural areas of Maine. Other factors contributing to the in-migration were the rural housing program (Farmers’ Home Administration), the ease of commuting to work in the larger towns, and the economic security of southern Maine.

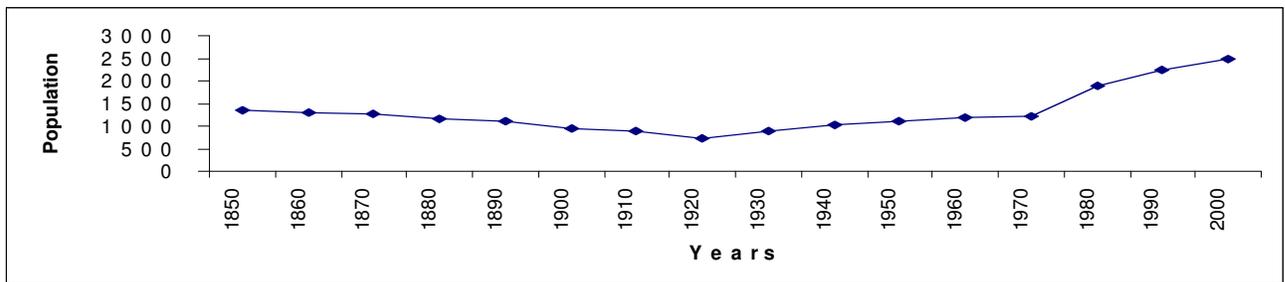
The 1992 Comprehensive Plan contained population estimates for 1990. After the release of the 1990 Census, we learned that these estimates were high. The 1990 population estimate in the previous Comprehensive Plan was almost 2,600. The Census reported the actual population as 2,238. This means the actual growth during the 1980s was only half of that assumed by the estimates in the previous plan. The rest of this discussion reflects the *actual* population of Alfred, York County and the surrounding towns; as compared to the *estimates* discussed in the 1992 plan.

Table 2-1. Historic Population Changes, 1900-2000

Year	Population	Number	Change Percent	% Avg. Annual Growth Rate
1900	937			
1910	890	-47	-5.0 %	-0.5 %
1920	738	-152	-17.1%	-1.7 %
1930	883	145	19.6 %	1.9 %
1940	1,039	156	17.6 %	1.7 %
1950	1,112	73	7.0 %	0.7 %
1960	1,201	89	8.0 %	0.8 %
1970	1,211	10	0.8 %	<0.1 %
1980	1,890	679	56.1 %	5.6 %
1990	2,238	348	17.8 %	1.8 %
2000	2,497	259	11.6%	1.16%

Source: U.S. Census

Figure 2-1. Historical Population Trends, 1850 - 2000



Source: U.S. Census

During the last decade, Alfred grew at a slightly slower rate than York County as a whole. However Alfred's growth rate was substantially less than most of the surrounding towns.

Table 2-2. Comparative Population Growth, Alfred and Surrounding Towns 1980 - 2000

	Change 1980-1990				Change 1990-2000		
	1980	1990	Number	Annual % Growth Rate	2000	Number	Annual % Growth Rate
Alfred	1,890	2,238	348	1.84%	2,497	259	1.16%
Lyman	2,509	3,390	881	3.51%	3,795	405	1.19%
Kennebunk	6,621	8,004	1,383	2.09%	10,476	2,472	3.09%
Sanford	18,020	20,463	2,443	1.36%	20,806	343	0.17%
Shapleigh	1,370	1,911	541	3.95%	2,326	415	2.17%
Waterboro	2,943	4,510	1,567	5.32%	6,214	1,704	3.78%
York County	139,666	164,587	24,921	1.78%	186,742	22,155	1.35%
State	1,125,000	1,228,000	103,000	0.92%	1,275,900	47,900	0.39%

Source: U.S. Census

Table 2-3. Population Growth Rates, Alfred and Surrounding Towns, 1980-2000

Annual % Growth Rate 1980-1990		Annual % Growth Rate 1990-2000	
Waterboro	5.32%	Waterboro	3.78%
Shapleigh	3.95%	Kennebunk	3.09%
Lyman	3.51%	Shapleigh	2.17%
Kennebunk	2.09%	Lyman	1.19%
Alfred	1.84%	Alfred	1.16%
Sanford	1.36%	Sanford	0.17%

Age Distribution

Alfred's population was slightly older than all of the surrounding communities except Kennebunk. The 1990 median age in Alfred was 36.5, substantially higher than Waterboro (30.4), Sanford (32.0), and Lyman (32.1). The York County Median Age was 33.7 in 1990. Table 2-4 shows the distribution of the population in 2000 by thirteen age categories. Alfred had the lowest percentage of young children than any of the surrounding towns, and was lower than the County and State. The percentage of elderly was higher in Alfred than any of the surrounding communities except Kennebunk and higher than the county and state.

Table 2-4. 2000 Age Distribution, Alfred and Surrounding Towns

	Alfred	Kennebunk	Lyman	Sanford	Shapleigh	Waterboro	York County
<5	105	533	226	1,316	123	511	11,016
5-9	139	780	288	1,584	156	581	13,111
10-14	182	892	322	1,616	185	522	14,030
15-19	168	638	241	1,588	143	410	12,185
20-24	106	255	176	1,137	101	290	8,738
25-34	246	1,046	462	2,615	252	990	23,154
35-44	423	1,812	717	3,413	427	1,241	32,859
45-54	394	1,662	654	2,774	370	821	28,470
55-59	139	564	247	934	125	233	9,843
60-64	119	475	149	828	110	178	7,907
65-74	294	873	216	1,456	175	259	13,623
75-84	146	661	86	1,122	127	144	8,748
85>	36	265	11	423	32	34	3,058

Source: U.S. Census

Alfred has been aging during the past three decades. In 1980, the median age in town was 35.0, and in 1990 it was 36.5. The median age for the year 2000 is 42.2. Some of this increase is part of national demographic trends. The “Baby Boom” generation has matured and our seniors are living longer. However, between 1980 and 1990 there was a decline of 76 people age 34 or less. During this same time period, the number of people age 60 and older increased by 98. In Table 2-5 the maturing of the baby boomers is shown by the increase in the number of people age 35-44 between 1980 and 1990 and age 45 and 54 between 1990 and 2000.

Table 2-5. Alfred Population Breakdown by Age, 1980 – 2000

Ages	1980	1990	1980-90 Change		1990-00 Change	
			2000 Numerical	Percent	Numerical	Percent
<5	137	138	105	1 0.73%	-33	-23.91%
5-9	114	167	139	53 46.49%	-28	-16.77%
10-14	212	159	182	-53 -25.00%	23	14.47%
15-19	167	122	168	-45 -26.95%	46	37.70%
20-24	138	111	106	-27 -19.57%	-5	-4.50%
25-34	324	362	246	38 11.73%	-116	-32.04%
35-44	202	376	423	174 86.14%	47	12.50%
45-54	203	1226	394	1023 503.94%	-832	-67.86%
55-59	106	119	139	13 12.26%	20	16.81%
60-64	94	123	119	29 30.85%	-4	-3.25%
65-74	123	210	294	87 70.73%	84	40.00%
>75	70	125	182	55 78.57%	57	45.60%
Total	1,890	2,238	2,497	348 18.41%	259	11.57%

Source: U.S. Census

Alfred experiences an 18% seasonal population increase in the summer. In 1994, Southern Maine Regional Planning Commission (SMRPC) estimated that Alfred grew from 2,290 to 2,700 in the summer, due to occupation of summer camps, bed and breakfast, and lakeside dwellings.

Non-Household Population

There are two group residences whose occupants are included in the U.S. Census figures for Alfred: the County Jail and York County Shelter, Inc. The 1990 Census reported 112 individuals in group quarters, 75 of which were at the jail.

In 1990 the average daily inmate population at the County Jail was 125. The trend is toward an increase in the numbers housed at the jail and in the boarders. In 1997, the average population was 106, but an increasing number of inmates have been boarded elsewhere.

When the 1992 Comprehensive Plan was written, the York County Shelter, Inc. occupied the old county jail and two buildings at the Brothers of Christian Instruction. An average of 31 persons per day were housed there. During the early 90's, the old county jail was closed and the residents were moved to the Brother's location. Unfortunately, population at the shelter continues to grow. There is no easy answer to this social problem.

The size of these populations inflates the overall population of Alfred.

Household Size

The average number of persons per household in Alfred declined 10% between 1970 and 1980: from 3.18 to 2.86. During the same period, York County's average household size decreased by 9%. In 1990, the average household size in Alfred had declined another 9% to 2.61. The York County average household size was 2.63 persons. In the year 2000, the average household size has decreased to 2.26 persons. This amounted to a 10-year decline of 13%.

Between 1970 and 1990 the percentage of one and two person households increased from 45% of all households to 58%. During this time the percentage of households with more than 4 people decreased from 21% to 10%.

Current Population

Using the U.S. Census, the population growth in Alfred is summarized on Table 2-6. The greatest *rate of change* and *numerical increase* both occurred between 1970 and 1980. Growth slowed during the 1980s and even more during the 1990s.

Table 2-6. Numerical and Percent Increase for Alfred, 1970 – 2000

	Population	Numerical	Percent
Year	Count	Increase	Increase
1970	1,211		
1980	1,890	679	56.1%
1990	2,238	348	18.4%
2000	2,497	259	11.6%
30 Year Change:		1,286	106 %

Source: US Census

Population Projections

Population projections, illustrated in Table 2-7 and Table 2-8, have assumed a continuation of trends, which occurred between the firm figures of the 1990 U.S. Census and the 1998 estimate by the Southern Maine Regional Planning Commission.

These *projections* are based upon *estimates*: that, between 1990 and 1998, Alfred grew by 1930 people, and that the town’s population in 1998 is approximately 2,370. Using these assumptions as a starting point, projected population increases have been made to the year 2015. Three different projection methods have been used:

Numerical Projection: assumes arithmetic growth at a fixed annual number, 16. (the low-range projection)

Percent Projection: applies the average annual growth rate of 0.7% to the 1998 estimate, 2,370. (The mid-range projection)

Rate Projection: assumes a continuing growth rate, of 0.7% each year. (The high range projection)

Due to Alfred's relatively small population and growth rate, there is relatively little difference between the three projection methodologies. If the projections were carried out further into the future, the rate projection method would indicate a significantly larger population than either of the other two.

Table 2-7. Population Projections, 1990-2015

Type of Projection	2000	2005	2010	2015
Numerical Projections	2,497	2,577	2,657	2,737
Percent Projections	2,497	2,584	2,671	2,759
Rate Projections	2,497	2,586	2,677	2,772

Source: SMRPC

Table 2-8 projects aging trends for the next 10 years. The under-5-age-group is projected to gradually decline as a percentage of the town’s population. The proportion of residents in the 45-64 year old group (the “baby boom generation”) will increase significantly.

Table 2-8. Age Breakdowns Estimate and Projections, 1990, 2000, and 2010

Age	1990 Percent		2000 Percent		2010 Percent	
<5	138	6%	105	4%	100	4%
5-19	448	20%	489	20%	340	13%
20-44	849	38%	775	31%	770	30%
45-64	468	21%	652	26%	900	35%
65+	335	15%	476	19%	460	18%
Total	2238	100%	2497	100%	2570	100%

Source: SMRPC

Summary

1. Alfred’s population has doubled in the last three decades. From 1970 to 2000, the town’s population grew more than it had in the century prior to 1970.
2. The greatest numerical and greatest rate of growth occurred between 1970 and 1980.
3. In the 1990s, growth is due to *net in-migration*; as there have been more deaths than births resulting in a *natural decrease*.
4. During the 1980’s, Alfred grew at the same rate, as did York County as a whole. Except for Sanford, Alfred’s growth rate was lower than all of its immediate neighbors.
5. From 1970 to 2000, census figures indicate an increase in the median age for Alfred residents. In 1990, people over 65 represented 15% of the population, up from 10% in 1980. Projections through 2010 indicate an increase in the median age. The proportion of people in the workforce will increase by the year 2000 and after that the percentage of seniors will increase.
6. Seasonal population fluctuation, due to summer residents, is less than that of surrounding towns.
7. Using projections based on the SMRPC 1998 Population Estimate and growth trends of the 1990s, Alfred’s population is projected to increase 9% by 2005 and 13% by 2015, substantially slower growth than projected by the 1992 Comprehensive Plan.

8. The data in this population chapter rely on the latest numbers available, the 2000 U.S. Census. Estimates and projections are based on historical trends of the U.S. Census figures up to the year 2000.

CHAPTER 3: LOCAL ECONOMY

History

From 1764 until after the Civil War, Alfred's economy was almost entirely resource-based. Lumber and farming were the primary economic activities. Retail and service businesses developed after 1806 when professionals settled in the new Shiretown of York County. As county seat, Alfred provided continuing government employment in the York County Court House, the York County Sheriff's Department, and in the County Jail.

The economy reached its lowest ebb in 1867, when population declined. Farming, lumbering, and retail business dwindled. In 1867, the only remaining store burned down. Over the next 140 years the lumber industry declined, and today there are no sawmills, although commercial use of forest resources continues. Today there are 4,748 acres of woodland in the state Tree Growth Tax Law Program, which defines such use as commercial.

Commercial agriculture also declined. There are no dairy operations, however, 150 acres support commercial animal husbandry with beef, lamb, and wool as the principal products. Apples and apple products are grown commercially on over 100 acres. Commercial vegetable and other fruit products are raised on a minimal number of acres of land.

After World War II, Alfred's economy became less local. More residents worked outside of the community.

In the early 90's, Alfred, the surrounding region and New England as a whole, were at the tail end of a long period of economic prosperity. To a certain extent the economic growth during the 1980s was unprecedented throughout the entire Northeast. However, the beginning of the 1990s saw those good times come to an end. The decade began with an economic downturn, which resulted in an increase in unemployment, a drop in construction activity and a slowdown in retail sales. By 1993, the economy began an upswing and the nation has enjoyed the longest peacetime economic expansion of the twentieth century.

Labor Force Estimates

The civilian labor force is made up of those individuals who are employed or are looking for work. According to data published by the Maine Department of Labor, the number of Alfred residents in the workforce increased by 8% between 1992 and 2000, about twice the rate of population growth. Both the number of unemployed individuals and the unemployment rate in Alfred has dropped significantly during this time.

Table 3-1. Annual Average Civilian Labor Force Estimates for Alfred, 1992-2000

	1992	1994	1996	1997	2000
Labor Force	1,180	1,089	1,184	1,178	1,208
Employed	1,058	981	1,106	1,101	1,161
Unemployed	122	108	78	77	47
Unemployment Rate	10.3%	9.9%	6.6%	6.5%	3.9%

Source: Maine Department of Labor

Alfred Comprehensive Plan, Volume 2: Data Inventory

In the region, Alfred has had a slightly higher unemployment rate than the surrounding towns. Table 3-2 shows that the regional unemployment rate has dropped during the past eight years.

Table 3-2. Regional Unemployment Trends, 1992-2000

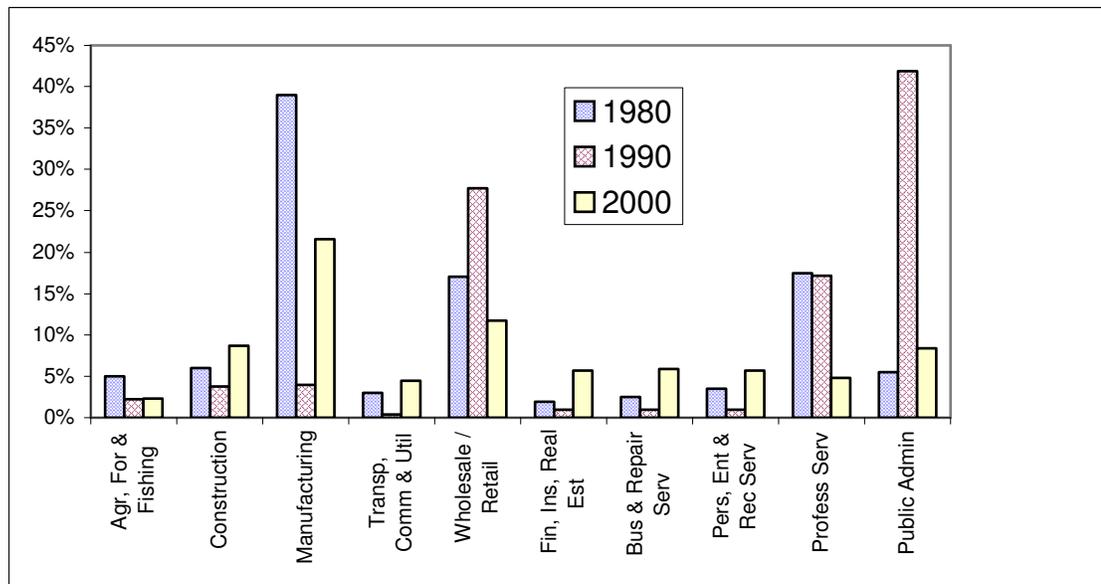
	1992		1994		1996		1997		2000	
	rate	rank	rate	rank	rate	rank	rate	rank	rate	rank
Alfred	10.3%	6	9.9%	6	6.6%	5	6.5%	6	3.9%	3
Kennebunk	6.3%	3	5.3%	3	3.2%	3	3.5%	2	2.4%	1
Lyman	2.3%	1	2.4%	1	1.1%	1	2.7%	1	2.6%	2
Sanford	7.7%	5	8.8%	5	6.8%	6	6.1%	5	7.3%	6
Shapleigh	4.9%	2	5.1%	2	3.7%	2	4.1%	3	5.6%	5
Waterboro	7.4%	4	7.2%	4	4.7%	4	5.4%	4	5.1%	4
York County	6.5%		6.1%		3.8%		3.8%		3.6%	

Source: Maine Department of Labor

Employment by Industry

The decennial censuses report the industry of employment of Alfred residents. Figure 3-1 shows the employment by industry for the years 1980 through 2000. The industries in which more Alfred residents were employed in 1980 were manufacturing, professional services, and retail trade. Reflecting regional and national economic shifts, the number of Alfred residents employed in manufacturing has steadily declined for the last 30 years. During the 1980s, construction and professional services saw large increases. Professional services continued to increase during the 1990s, but construction employment declined during this decade.

Figure 3-1. Employment by Industry, 1980 to 2000



Source: U.S. Census

Alfred is part of the Sanford Labor Market Area (LMA). A labor market area is an area, which is defined on the basis of the decennial census' data regarding commuting patterns. It is the area in which one could easily change residence and still maintain a given job. The Sanford Labor Market area is made up of nine municipalities in western and central York County surrounding the Sanford employment center. Close to 60% of Alfred workers reported working in the Sanford LMA. The data in Figure 3-1 report the industry of employment of Alfred residents. Data for employment by industry and by location of employment are not easily available at the municipal level. However, they are regularly published for labor market areas. Whereas the Sanford LMA is the location of the jobs of close to two thirds of Alfred's residents, the changes in the employment mix in the area is of importance to Alfred. Table 3-3 shows changes in wage and salary employment in the Sanford Labor Market Area between 1993 and 2000. Data earlier than 1993 cannot be used for comparison because the LMA boundaries were changed in that year.

Table 3-3. Wage and Salary Employment by Industry, Sanford Labor Market Area, 1993-2000

Industry	1993	1994	1995	1996	2000
Manufacturing	5,160	5,200	5,500	5,410	5,090
Construction	380	370	360	380	590
Transportation and Utilities	200	260	260	260	250
Wholesale	260	270	300	340	490
Retail	2,210	2,290	2,280	2,370	2,790
Finance, Insurance & Real Estate	260	290	250	270	330
Services	2,440	2,580	2,800	3,000	3,330
Government	1,930	1,860	1,890	1,960	2,230
Total	12,840	13,120	13,640	13,990	15,100

Source: Maine Department of Labor

Employment by Occupation

Data from the 1990 and 2000 US Census show that Alfred residents are employed in higher skilled positions such as managerial / professional occupations in line with residents of neighboring municipalities. Table 3-4 shows the employment by occupation for Alfred and the surrounding communities.

Table 3-4. Employment by Occupation, 1990 and 2000

1990	Alfred	Kennebunk	Lyman	Sanford	Shapleigh	Waterboro
Mgmt., Prof. and Related	254 25.4%	1,536 39.0%	354 21.2%	1,721 18.4%	167 18.2%	487 22.0%
Technical, Sales, Admin. Support	236 23.6%	1,282 32.5%	434 26.0%	2,397 25.7%	218 23.8%	541 24.4%
Service	90 9.0%	332 8.4%	139 8.3%	1,303 14.0%	130 14.2%	339 15.3%
Farming, Forestry & Fishing	28 2.8%	62 1.6%	27 1.6%	91 1.0%	12 1.3%	19 0.9%
Precision Product, Craft, & Repair	226 22.6%	422 10.7%	298 17.8%	1,563 16.7%	180 19.6%	355 16.0%
Operators, Fabricators and Laborers	167 16.7%	308 7.8%	418 25.0%	2,265 24.3%	210 22.9%	476 21.5%
Total	1001	3942	1670	9340	917	2217
2000	Alfred	Kennebunk	Lyman	Sanford	Shapleigh	Waterboro
Mgmt., Prof. and Related	295 25.3%	2263 45.0%	538 25.9%	2077 21.5%	337 27.1%	754 25.3%
Service	190 16.3%	591 11.8%	354 17.1%	1704 17.7%	179 14.4%	370 12.4%
Sales Or Office	286 24.5%	1414 28.1%	454 21.9%	2359 24.4%	344 27.7%	760 25.5%
Farming, Fishing And Forestry	6 0.5%	27 0.5%	12 0.6%	8 0.1%	4 0.3%	20 0.7%
Constr., Extract. and Maintenance	145 12.4%	356 7.1%	322 15.5%	1004 10.4%	171 13.7%	377 12.6%
Production, Trans, & Mat Moving	244 20.9%	378 7.5%	395 19.0%	2499 25.9%	209 16.8%	704 23.6%
Total	1166	5029	2075	9651	1244	2985

Source: U.S. Census

Alfred Comprehensive Plan, Volume 2: Data Inventory

Location of Employment

As is the case with most small towns like Alfred, the majority of the labor force commutes to jobs outside of town. The 1990 Census reported that only 23% of workers residing in Alfred were employed in Alfred. Residents work in communities as far reaching as Massachusetts and northern Maine. The majority of people who don't work in town, however, work in Sanford, Portland, Biddeford/Saco and the seacoast area. As would be expected, Sanford was the most popular place of employment in 1990, with 28% of Alfred workers commuting to that neighboring town. However, the importance of Sanford as a source of jobs for Alfred residents has decreased. In 1980, almost half of the Alfred residents reported working in Sanford. Table 3-5 shows a comparison of the location of employment between the 1980 through 2000 Censuses. The number of Alfred residents working within town more than doubled during the decade. However, the percentage of workers working outside of York County increased. Though it represents a small absolute number of workers, Strafford County, New Hampshire saw the largest percentage increase in commuters from Alfred.

Table 3-5. Place of Employment, Alfred Residents, 1980 and 1990 (Year 2000 not yet available)

	1980	1990	Change	2000
Alfred	117	244	109%	
Berwick	0	7	100%	
Biddeford	56	67	20%	
Kennebunk	21	57	171%	
Kennebunkport	0	13	100%	
Kittery	43	51	19%	
Limerick	0	7	100%	
Lyman	2	0	-100%	
Newfield	4	8	100%	
No. Berwick	16	37	131%	
Saco	28	31	11%	
Sanford	297	279	-6%	
Shapleigh	0	7	100%	
Waterboro	28	27	-4%	
Wells	0	6	100%	
Total York County	612	841	37%	
Cumberland Co.	45	63	40%	
Elsewhere Maine	10	6	-40%	
Rockingham	26	6	-77%	
Strafford	10	32	220%	
Employed Elsewhere Out Of State				
New Hampshire	4	7	75%	
Massachusetts	0	4	100%	
Other	0	30	100%	
Outside Of York County	95	148	56%	
Total Workers	717	989	38%	

Source: U.S. Census

Although it would appear from the above paragraph that Alfred residents are now working further from home, the travel time to work data from the censuses indicates otherwise. Table 3-6 shows that the percentage of workers traveling less than ten minutes to work increased from 11.7% in 1980 to 20.4% in 1990 and fell to 18.7% in 2000. The percentage traveling more than 45 minutes decreased from 18.1% to 10% then increased to 12.9% in 2000.

Table 3-6. Travel Time to Work - 1980, 2000

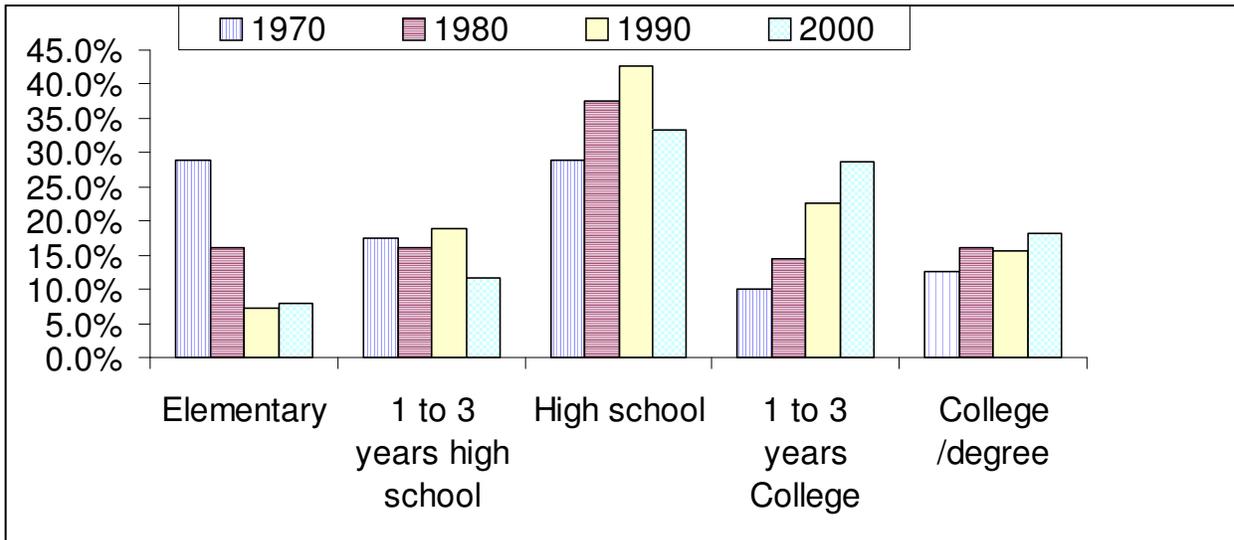
Travel Time	Residents			Percent		
	1980	1990	2000	1980	1990	2000
Less than 5 minutes	32	94	48	4.4%	9.9%	4.3%
5 to 9 minutes	53	100	162	7.3%	10.5%	14.4%
10 to 14 minutes	154	196	136	21.3%	20.5%	12.1%
15 to 19 minutes	132	126	134	18.3%	13.2%	11.9%
20 to 29 minutes	124	147	258	17.2%	15.4%	23.0%
30 to 44 minutes	97	196	240	13.4%	20.5%	21.4%
45 or more minutes	131	95	145	18.1%	10.0%	12.9%

Source: U.S. Census

Educational Attainment

Education is one of the most important factors in the ability of Alfred's population to be competitive for skilled employment opportunities. The educational levels achieved by residents' age 25 and older are shown in the Figure 3-2. The trend shows that more residents have reached higher educational levels. Whereas in 1970 nearly half the adults in Alfred had not graduated from high school, by 1990 nearly half had continued past high school and either attended some college or achieved a college degree. There is concern about the drop in high school graduates in the year 2000; however, it is worthy to note the increase in college attendance.

Figure 3-2. Educational Attainment, 1970 - 2000



Source: U.S. Census

Income

Income can be measured a variety of different ways. The most recent data is from the 2000 Census. Per capita income represents the average personal income per person. It may be the best measure of the income of an area as it shows the amount of money each household has in relationship to the number of people in the household. The per capita income for Alfred residents increased from \$5,715 in 1979 to \$12,677 in 1989 and to \$19,337 in 2000. Table 3-7 presents a number of different indicators of income from the 1990 and 2000 Census for Alfred and the surrounding municipalities. The difference in how Alfred ranks among these towns in each different indicator reveals some aspect about the income distribution or household characteristics of the community. For instance, Alfred's median household income and per capita income are in the mid-range of the towns. In addition, the percentage of households with an income below \$10,000 in 2000 was also in the lower range. This can most likely be explained by a low average household size that allows a household with a relatively low income to have a more moderate per capita income and live above the poverty level.

Table 3-7. Indicators of Income

1989

	Median Household Income	Per Capita Income	% Households under \$10,000	% Households over \$150,000	% Below Poverty Level	% Elderly Below Poverty Level	% Children Below Poverty
Alfred	\$31,576	\$12,677	8.1%	0.0%	3.3%	8.8%	1.5%
Kennebunk	\$38,227	\$18,665	7.9%	2.7%	5.3%	9.9%	5.5%
Lyman	\$36,874	\$12,940	6.3%	0.5%	5.7%	4.5%	8.0%
Sanford	\$27,824	\$12,053	15.2%	0.3%	10.4%	12.8%	13.2%
Shapleigh	\$30,725	\$11,575	10.1%	0.0%	8.6%	16.0%	9.8%
Waterboro	\$31,260	\$13,260	6.9%	0.4%	3.7%	9.3%	3.0%
York Co.	\$32,432	\$14,131	7.3%	0.9%	6.8%	10.6%	7.8%

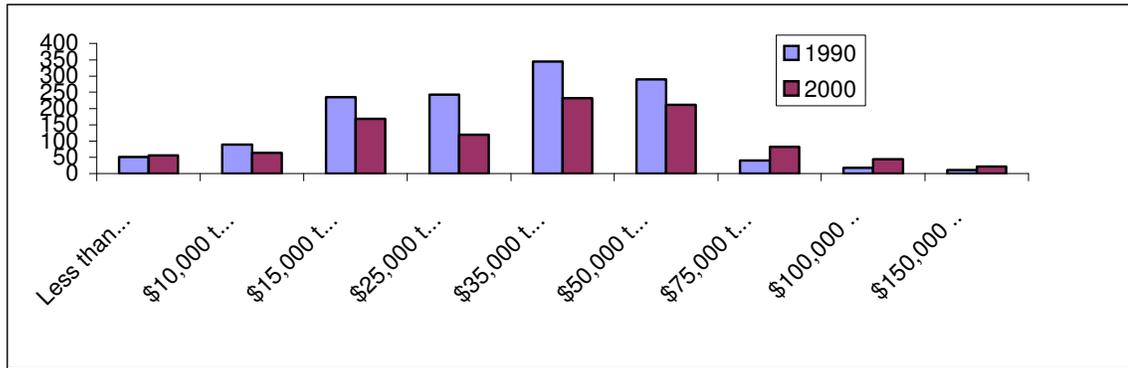
1999

Alfred	\$40,583	\$19,337	5.6%	2.1%	4.2%	9.0%	5.8%
Kennebunk	\$50,914	\$26,181	4.2%	6.2%	2.9%	3.5%	3.3%
Lyman	\$47,860	\$20,203	7.5%	2.1%	4.8%	5.7%	2.4%
Sanford	\$34,668	\$16,951	11.6%	1.3%	11.1%	11.2%	17.0%
Shapleigh	\$42,026	\$19,331	5.4%	0.8%	2.9%	7.3%	4.3%
Waterboro	\$43,234	\$17,813	4.4%	1.9%	3.4%	7.8%	7.4%
York Co.	\$43,630	\$21,225	7.8%	2.8%	5.9%	8.5%	9.9%

Source: U.S. Census

Figure 3-3 shows the change in the distribution of income of Alfred households for 2000. In 1980 the distribution curve had a single peak in the middle-income level. Unfortunately, we cannot make a direct comparison with the statistics of 1990 because of a change in the numerical categories. However, there were similar indicators in the \$15,000 - \$25,000 sector and again in the \$35,000 to \$75,000 sectors.

Figure 3-3. Distribution of Household Income 1990 and 2000



Source: U.S. Census

Business Activity in Alfred

Alfred’s local economy is fairly diverse. The major employer in the community is York County. As the county seat, Alfred is the home of the county courthouse, and jail. As such, the activities at the county facilities not only provide employment opportunities for Alfred residents but also bring visitors, which support local businesses into the town. There is a cross section of other employment types in Alfred ranging from retail trade to manufacturing and construction.

A 1990 survey of the businesses in town indicated that the local economy is primarily made up of small firms. This information was updated in 1998. The planning committee was able to identify 90 businesses in town. There was a wide diversity of types of industry, mostly retail and service oriented. A sampling of business includes: several car dealers, a ballet school, restaurants, cabinet shop, construction, and antique shops. The largest employers are the York County Court House, Jail, and Shelter. Table 3-8 lists categories of business and the number of businesses in each category.

Table 3-8. Alfred Businesses, 1980-2002

Category	Number in 1980	Number in 1990	Number in 2002
Restaurants	2	2	1
Furniture Stores	1	2	1
Bed & Breakfast	0	4	1
Auto Sales, Salvage	5	8	8
Service Stations	4	4	2
Auto Repairs	2	4	5
Antique Shops	3	5	1
Construction Companies	3	6	12
Day Care	2	5	6
Craft Shops	2	4	4
Paving & Concrete Tanks	2	2	3
Misc. Small Businesses	15	30	46

Source: Town Records

Table 3-9 presents, in thousands of dollars, taxable consumer retail sales for Alfred from 1990 to 2002. Even without adjustment for inflation, taxable retail sales declined 9% between 1990 and 1997. Accounting for inflation during that eight-year period, sales declined by 26%! However, after 1997, this trend reversed, and sales rose steadily until 2002. By 2002, sales had increased 50% percent since 1990.

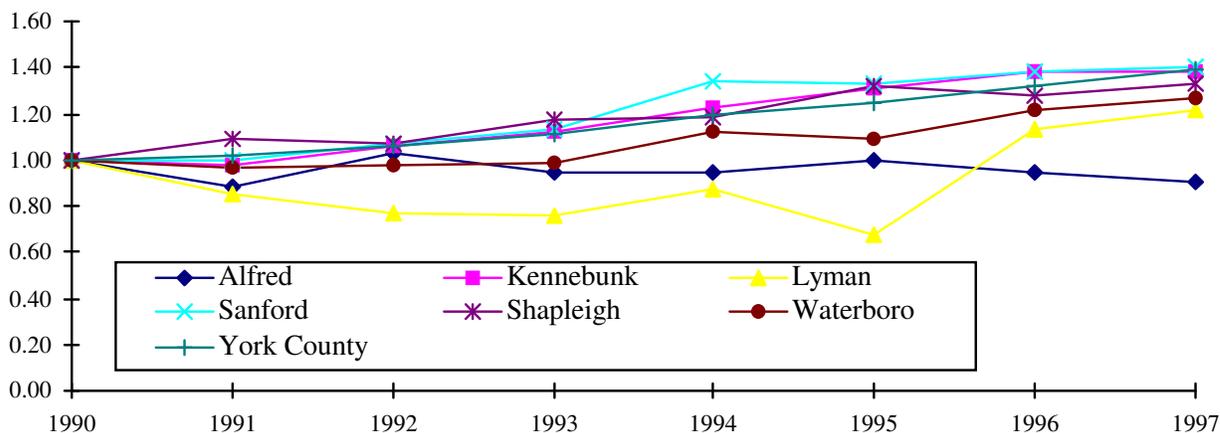
Figure 3-4 shows retail sales in Alfred and surrounding communities indexed to 1990 dollars. Because of the large difference in the absolute volume of sales between Sanford and the other communities, this graph is the best way to show the changes over time. During the early 1900’s retail growth was significantly “flatter” than the surrounding towns.

Table 3-9. Consumer Retail Sales in Alfred, 1990-2001 (1,000 dollars)

Year	Sales	Year	Sales	Year	Sales
1990	\$7,080	1994	\$6,730	1998	\$7,792
1991	\$6,260	1995	\$7,090	1999	\$8,548
1992	\$7,290	1996	\$6,663	2000	\$9,891
1993	\$6,700	1997	\$6,429	2001	\$10,280
				2002	\$10,652

Source: Maine State Planning Office

Figure 3-4. Index of Retail Sales, Alfred and Surrounding Communities, 1990-1997



Source: Maine State Planning Office

SUMMARY

1. Alfred’s unemployment rate has been decreasing since 1992, while the size of the labor force has been increasing. However Alfred’s unemployment rate remains among the highest in the subregion.

2. Alfred currently has a diverse economy that is primarily retail, government and services oriented.
3. More Alfred residents worked in Alfred in 1990 than in 1980. However 77% of Alfred workers left the town in 1990 for their employment.
4. Approximately one third of Alfred workers were employed in manufacturing in 1990. Another quarter of the workers were employed in service industries, with a high concentration in health and professional services. Services, public administration and construction were the industries that saw the largest gains in employment during the 1980s.
5. The level of educational attainment of Alfred's citizens continues to improve. In 1990, nearly half of Alfred residents age 25 and older had attended some college or received a degree.
6. Alfred ranked fourth in the subregion in per capita income in 1990. Its per capita income was less than the county's, however, perhaps reflecting an older population and smaller household sizes. Alfred's poverty rate was the lowest in the subregion.
7. The number of business located in Alfred appears to continue to grow. The committee counted 90 businesses in town, compared to 76 in 1990.
8. Taxable consumer sales decreased from 1990 to 1997, and then increased until 2002. By 2002, sales had increased 50% percent since 1990.

CHAPTER 4: HOUSING

The Past

Alfred has a Historic District located in the center of Alfred Village. It is located southwest to northeast on Route 202 and Route 4 (Oak Street) and along Kennebunk Road and Saco Road. These three streets embrace the village green. Buildings within the Historic District are in good or excellent condition and most represent 18th and 19th century construction. During the 19th century, before the advent of the automobile, lawyers found it expedient to reside near the courthouse. Their affluence, and the pride which they had in their homes greatly influenced the character of the village. Appended to this chapter is a list of the 48 buildings and sites that contribute to the character of the historic district.

The Present

The population analysis portrays that the past three decades have been a period of significant growth in town. This growth is also supported in the housing analysis. Between 1980 and 1990, 157 new housing units were built in Alfred. This reflected a 17 % growth rate, or 1.7 % average annual growth rate. Of the new homes in that decade, 72 were single-family units, 20 were multiple family units, and 65 were mobile homes. In the period between 1990 and 1999, 192 building permits for new dwelling units were issued. This represents an annual growth rate of 2%. There has been a shift in the makeup of new housing units to more single family and mobile homes and fewer multi-family units. There have been very few multi-family units constructed in Alfred in the past eight years. The expansion of the Keywood Manor Mobile Home Park has increased the percentage of new units as manufactured housing. Table 4-1 presents the information on housing growth since 1980.

Table 4-1. Growth in Housing Units 1980 – 1999

	1980	1989	% Change 1980-89	1999	% Change 1990-99	% of Units 1980	% of Units 1989	% of Units 1999
Single Family	542	614	13%	790	29%	69%	67%	71%
Multi-Family	69	89	29%	19	-79%	9%	10%	2%
Mobile Homes	171	213	25%	299	40%	22%	23%	27%
Total	782	916	17%	1,108	16%	100%	100%	100%

Source: U.S. Census and Town Records

Table 4-2 shows many facts about the housing stock in Alfred, and the surrounding communities. These data are based on the 2000 Census. Alfred’s housing stock is comprised of only 7% seasonal units. This is a lower proportion than any other town in the subregion except for Sanford. The percentage of seasonal units in Alfred declined from 12% in 1980. Alfred rates lowest in its number of rental units, however with only 16% of its occupied housing stock being occupied by renters, less than in Lyman, Shapleigh and Waterboro. The percentage of rental units in Alfred increased from 11% in 1980.

Table 4-2. Housing Counts in Alfred and Subregion, 2000

Town	Total	Year Round		Seasonal	Occupied	Owner	%	Renter
	Units	Units	%	Units	Units	Occupied		Occupied
Alfred	1,103	996	90.3%	75	996	823	82.6%	173
Kennebunk	4,985	4,229	84.8%	623	4,229	3,362	79.5%	867
Lyman	1,749	1,366	78.1%	336	1,366	1,241	90.8%	125
Sanford	8,807	8,270	93.9%	231	8,270	5,253	63.5%	3,017
Shapleigh	1,813	912	50.3%	850	912	810	88.8%	102
Waterboro	2,828	2,211	78.2%	538	2,211	1,912	86.5%	299
York County	94,234	74,563	79.1%	16,597	74,563	54,157	72.6%	20,406

Source: U.S. Census

Very few new residences were built in town in the early 1990s. The peak was reached in 2001 with 46 permits, the highest since 1998 in which 45 building permits were issued. The first part of the current decade saw between 7 and 14 units per year. The latter part of the 1990's saw the number increase to an average of 35. The construction of additional phases of Keyword Manor mobile home park, starting in 1995, resulted in an increase in the number of total units authorized as well as a shift to more mobile homes in the latter part of the decade.

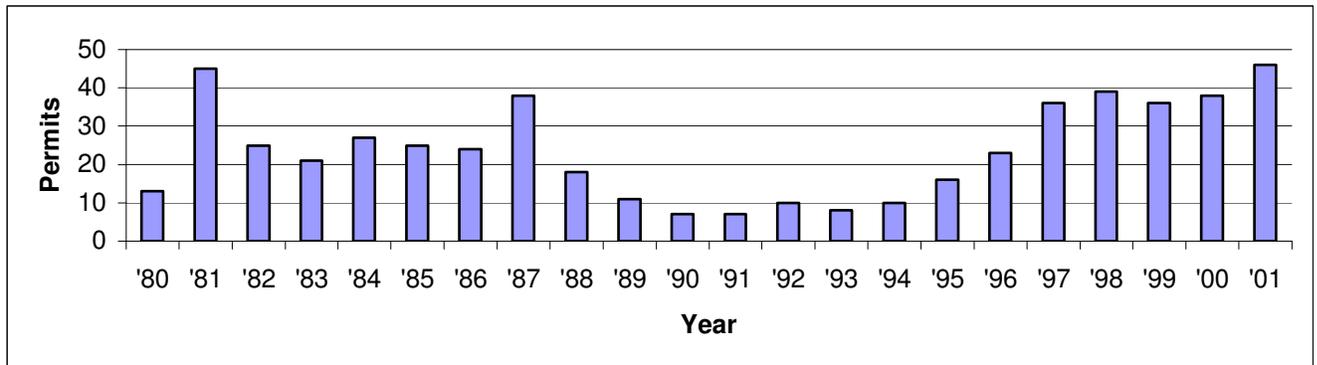
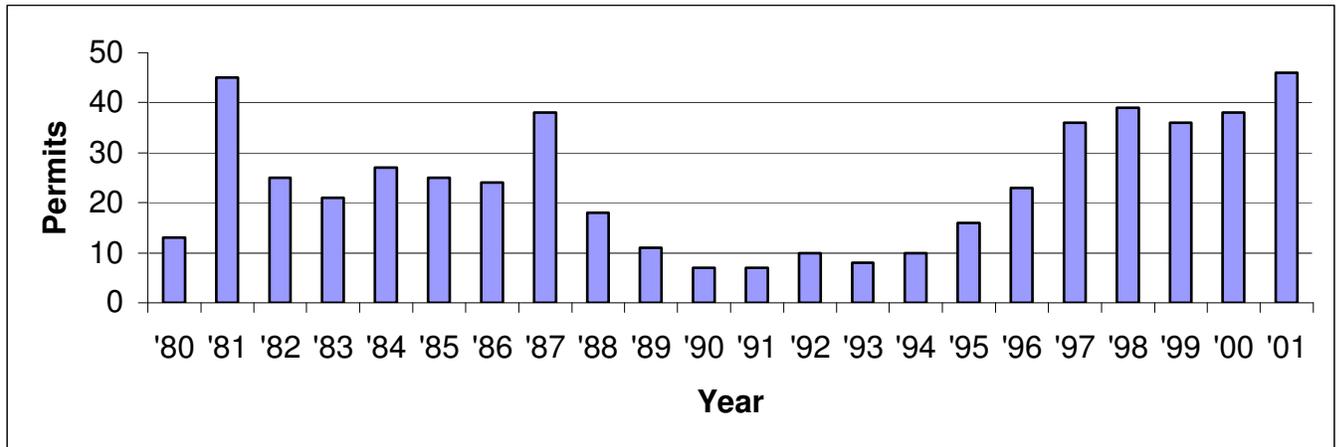


Figure 4-1. Approved Residential Building Permits, 1980-2001

Figure 4-2. Residential Building Permits, 1980-2001



Source: Town Reports

From 1980-1988, there were 17 new subdivisions of land approved in town. These subdivisions amounted to over 440 acres of land. Between 1990 and 1999, the planning board approved only 10 subdivisions accounting for 123 lots on 141.5 acres of land. Of these 123 lots, 58 were located in the Keyword Manor mobile home park expansion. All other subdivisions were minor subdivisions made up of 4 lots or less. 200 living units were permitted, of which 115 were built outside of subdivisions.

In a field survey done in 1990, it indicated that less than 1% of the housing in town was considered substandard. Substandard homes are those having major structural deficiencies (requiring repairs beyond normal maintenance such as new roofing, chimney, or siding). All other units were in good condition, or needing only minor repairs. Every effort should be made to assure that this residential property remains at high quality and that new development meets high, but flexible, construction standards.

Table 4-3. Alfred Subdivision Approvals, 1990-1999

Subdivision	Year Approved	Total Acreage	Number of Lots	Average Lot Size
Nutter	1990	24.0	5	4.8
Dumas	1991	10.0	3	3.3
Keyword Manor III	1993	18.0	58	0.31
Palminteri	1995	10.0	4	2.5
R. Pepin and Sons	1995	13.0	4	3.25
Meadow Overlook	1997	18.0	3	6.0
Charles Basset	1998	6.0	3	2.0
Kane	1998	10.0	4	2.5
Desrochers Multi-family	1998	9.0	3	3.0
Keyword Manor IV	1999	23.5	38	0.62

Source: Town records

Housing Conditions

Data from the 2000 Census indicates that the condition of housing in Alfred is generally very good. There were only three units counted without complete plumbing. There were no units lacking telephone service or a complete kitchen.

Household Characteristics

The average number of people per household decreased from 2.86 in 1980 to 2.26 in 2000. This change reflects a 13% decrease in household size.

The smaller household size in town can be attributed to many factors, including: smaller families and unmarried couples living together without children, single households, and an increase in independent older citizens who are living on their own rather than with families or in nursing homes. One important impact of the declining household size is that it now takes more housing units to house the same number of people. Another important factor is the aging populations need for accessible and affordable housing.

Housing Affordability

Alfred has two federally subsidized housing complexes, Woodsedge Apartments (15 units) and Hazel Dell Apartments (24 units). Both of these are elderly units.

Housing affordability is a problem throughout York County. This is not just an issue of low income; it affects the middle-income residents as well. It is also an issue for residents of Alfred who grew up in town, and who cannot afford to live here as adults due to the cost of land and housing.

The State's growth management legislation states that each municipality should strive to have at least 10% of its housing stock be comprised of affordable housing. This term "affordable housing" is referred to by the growth management legislation as: "...decent, safe, and sanitary dwellings, apartments or other living accommodations for low and moderate-income households as defined by rule by the Department of Economic and Community Development in consultation with the Maine State Housing Authority. Affordable housing includes, but is not limited to, government assisted housing, housing for low-income and moderate-income families, manufactured housing, multi-family housing and group and foster care facilities."

The 1991 Comprehensive Plan documented rapidly increasing housing costs in the subregion, but concluded that just fewer than 60% of the new housing at that time would be considered affordable. During the early 1990s, housing prices declined as the national recession took its toll on the local economy. In the past few years, as the economy has improved, housing prices have again started to climb.

The local area for which recent income estimates are available is the non-metropolitan portion of Alfred Comprehensive Plan, Volume 2: Data Inventory

York County. This excludes the four municipalities in the Portland metropolitan area and the five in the Portsmouth metropolitan area. The federal Department of Housing and Urban Development published a 1998 median household income of \$42,200. This represents an increase of nearly 30% from the income figure used in the previous comprehensive plan. Since the time of the previous plan, mortgage rates have fallen from 11% to a current average of about 7%. Increased income and lower interest rates result in a higher price that qualifies as “affordable.”

Assuming a 10% down payment, an 8.00% mortgage over 30 years, a property tax rate of \$17 per \$1,000 valuation, homeowners insurance premium of \$480 annually, and monthly utility costs of \$85, a family with an income of 80% of the median income could afford a home costing approximately \$75,000. With the same mortgage terms and tax rate, but slightly higher insurance and utility costs, a family with an income of 150% of the median income can afford a \$175,000 home.

The Comprehensive Plan Committee compiled data house sales from 1998 Real Estate Transfer Tax forms. In the eight months of data examined, there were 16 sales of single-family homes. The median sales price of homes during that time was \$98,500. The mean sales price was a bit higher, \$104,000. Of the 16 homes sold during this time period, all of them were sold at a price affordable to families at 150% of the median income. A family at 80% of the median income could have afforded 4 of the 16 homes, or 25%.

These sales figures do not reflect the large number of new manufactured housing units that have been constructed in the Keywood Manor mobile home park in the past five years. Though price data is publicly not available for these units, it is generally assumed that these units are “affordable.”

Affordable Housing Gap Analysis

This section evaluates Alfred’s current and future needs for affordable housing. The basic premise of the section is that the Town of Alfred intends to provide its fair share of the region’s housing supply.

Definitions Of Affordability

The starting point for this analysis is to define affordability and examine how affordable or unaffordable Alfred’s housing stock currently is. Affordability will be defined by a combination of HUD’s definitions of very low, low and moderate incomes and Maine State Housing Authority (MSHA) data for the Town of Alfred and York County.

HUD’s affordability definitions are tied to regional median household income levels:

- Very Low income is defined as below 50% of the regional median;
- Low income is defined as 50-80% of the regional median; and
- Moderate income is defined as 80-120% of the regional median

As of 2003, York County’s median household income level was \$48,522, so the 50%, 80% and 120% thresholds are applied to that figure (see below)

The next step is to define the relationship between household income and housing affordability. MSHA calculates this information for each municipality in Maine each year by using a formula that includes all of the costs of housing—mortgage amount, interest rates, property taxes, utilities, etc. For 2003, the income to price ratio for York County was 33.75%, with a household earning the county median able to afford a home priced at \$143,754.

Using the combination of HUD and MSHA data, the income and home price levels for households in Alfred are assumed to be:

- Very Low: Income below \$25,000, home price below \$74,000
- Low: Income from \$25,000 to \$40,000, home price from \$74,000 to \$118,000
- Moderate: Income from \$40,000 to \$60,000, home price from \$118,000 to \$178,000

MSHA also reports each year on affordability by town, comparing the affordable level for a household earning the town’s median income with the median home sale price in the town. By this measure, housing affordability in Alfred was right in line with that of York County in 2003. The median-earning household in Alfred earned \$44,286 in 2003, allowing it to afford a home priced at \$134,593. The actual median sale price for Alfred in 2003 was \$173,308. Thus, the affordable price for a median-earning household was 78% of the actual median sale price—exactly the same ratio as the county as a whole.

Though the affordability ratios as reported by MSHA are the same for Alfred as for the whole county, Alfred is actually somewhat more affordable than the county as a whole, as the town’s median household income level is approximately \$4,000 less than the county’s median of \$48,522. A household earning the county median income could afford a home priced at \$143,754. At this level, the affordability ratio in Alfred would be 83%.

Current Affordable Housing Need—Gap Analysis

The current affordable housing gap is measured by comparing Alfred’s present population’s income profile with that of York County. The central assumption in this analysis is that each community in the county should have an equal share of low to moderate income residents and thus bear its fair share of the region’s affordable housing need.

Table 4-4 compares 2000 Census data on very low, low and moderate-income households for Alfred and York County to illustrate where the gaps exist.

Table 4-4 Very Low, Low And Moderate Income Households, 2000

	<i>Alfred</i>		<i>York County</i>	
	Number	Percent	Number	Percent
Very Low (<\$25K)	287	28.8%	19,503	26.2%
Low (\$25-40K)	196	19.7%	14,150	19.0%
Moderate (\$40-60K)	239	24.0%	15,965	21.4%
Market (>\$60K)	275	27.6%	24,910	33.4%
Total	997	100%	74,527	100%

Alfred Comprehensive Plan, Volume 2: Data Inventory

Source: US Census; SMRPC

The “gap analysis” conducted to determine Alfred’s present affordable housing shortage was a matter of determining how many more very low, low and moderate-income households would need to be housed in the Town in order for its income profile to match that of York County. Table 2 illustrates the gap analysis.

TABLE 4-5 Affordable Housing Gap Analysis

	Current Affordable Units	Units Needed to Match County Ratios	Affordable Housing Gap (Units)
Very Low (<\$74K)	287	261	-26
Low (\$74-118K)	196	189	-7
Moderate (\$118-178K)	239	214	-25
Total	722	664	-58

Source: US Census; SMRPC

As Table 4-5 shows, Alfred’s present inventory exceeds its fair share of affordable housing for York County as a whole in all three categories. Thus, there is no current affordable housing gap in Alfred that needs to be addressed.

Future Affordable Housing Needs

The Maine State Planning Office (SPO) projects that Alfred’s year-round population will increase by 346 persons for the period spanning 2000 to 2015. Using the Town’s 2000 average household size of 2.39 persons, this translates to a net change of 145 year-round housing units.

Maine’s Comprehensive Planning statutes mandate that local Comprehensive Plans ensure that at least 10% of new housing units in each municipality are targeted for affordable housing. Applying that standard to the expected change of 145 units, this would translate to 15 affordable units over a 15-year period, or an average of one per year. This needs to be set as the Town’s planning target for affordable housing.

In August 2002, the Southern Maine Regional Planning Commission conducted an affordable housing survey for York County, and the results are displayed in the Table below. The results show that the availability of affordable homes in Alfred (as defined by statutes) has gone down in recent years. At the time of the survey, no units were listed on-line that met the affordability criteria.

Table 4-6. SMRPC Survey of Affordable Housing in Alfred, August 2002

FY2002 Median Family Income for Non-MSA part of York County (HUD Est.)	\$47,100
2000 Census Median Family Income for Town	\$47,625
Max Loan Amt. at 80% of County or MSA Median Family Income, at 7.25% 30-yr. fixed rate - Standard from Maine Affordable Housing Definition Rule, 07-105 Chapter 100.	\$85,931
Max Loan Amt. at Town Median Family Income, at 7.25% 30-yr. fixed rate	\$126,021
Affordable House Price at 80% of County or MSA Median Family Income, with 10% down payment - Standard from Maine Affordable Housing Definition Rule, 07-105 Chapter 100.	<u>\$95,479</u>
Affordable House Price at Town Median Family Income, with 10% down payment	\$140,024
Number of 3 BR Single Family Units Offered for Sale at "Realtor.com," asking at or below Affordable Price (80% of County or MSA Median Family Income - Standard from Maine Affordable Housing Definition Rule, 07-105 Chapter 100.)	0
Number of 3 BR Single Family Units Offered for Sale at "Realtor.com," asking at or below Affordable Price for families at Town Median Family Income)	0

Table 4-7. Calculation of Demand for New Units in Alfred Induced by Decline in Average Household Size, 1990-2000

	1900	2000
Median Household Size	2.61	2.26
Population	2,238	2,497
Housing Units	916	1,103

Change in Population, 1990-2000: 259

Number of New Units Demanded w/HH size of year:	99	114
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New Units From Decline in HH Size: 15

Summary

1. The fastest growing land use in town is the single-family residential unit. Mobile homes are also growing at a rapid pace. They represent 26 % of all new housing in the 1990-2002 period.

Alfred Comprehensive Plan, Volume 2: Data Inventory

2. Alfred has the smallest number of housing units of its subregion; it also has the smallest number of seasonal units.
3. The decline in household size creates an additional demand on the number of housing units needed in the Town of Alfred. Additional 114 homes would have been needed between 1990 and 2000 to accommodate the same number of residents.
4. Alfred's present inventory exceeds its fair share of affordable housing for York County as a whole in all three categories. The supply of affordable housing is acceptable. If current real estate "boom" conditions persist, the issue will have to be dealt with, to help ensure the affordability of homes in the future.
5. Setting the Town's planning target of 15 affordable units over a 15-year period, or an average of one per year, should meet the State's affordable housing unit requirements. This target may have to be readjusted drastically because the projected expansion of the elderly population could cause a large demand for affordable units.

CHAPTER 5: TRANSPORTATION

Introduction

This chapter inventories the town's transportation system, which consists primarily of roads and bridges. The transportation network and the accessibility it provides are important determinants of Alfred's future developmental pattern.

Inventory Overview

There is no public transit facility. The last railroad passenger service ended in 1949. The abandoned rail bed, now largely privately owned, runs parallel to Route 202 from Sanford, turning northward in the village. Then it follows Route 202, toward Waterboro, running along the east shore of Shaker Pond. Alfred does not have a taxi service. The York County Community Action Program provides on-call transit services out of Sanford. This service is not widely known.

The town does not have a network of sidewalks or pedestrian ways. There are short sidewalks in front of the courthouse and in the center village at the corner of Kennebunk Road and Route 202. For bicyclists, paved shoulders along some roadways are available.

There are no public parking facilities except those serving a particular property, such as the courthouse, post office, county jail, town hall, school and the recreation field.

Charter air transportation is available locally at Sanford. Travel times to regional airports are as follows: Biddeford Airport, 15 minutes; Portland International Jetport, 40 minutes; Pease International Tradeport, approximately 45 minutes; Logan Airport in Boston, approximately 1 hour and 45 minutes; Manchester, New Hampshire approximately 1 hour and 30 minutes. Logan, Portland, Pease and Manchester provide scheduled passenger service on commercial airlines. Sanford and Biddeford provide only general aviation services.

For water transport, the International Ferry travels to the Canadian Maritime Provinces from Portland and Bar Harbor.

The most important part of Alfred's transportation system is its roadway network. Maintaining this network is the town's highest transportation priority. The following pages will outline the existing and projected condition and needs for this indispensable community asset.

Road Classification

This inventory uses two methods to classify roads. The first is the Federal Functional Classification, which is determined by using factors such as road size, traffic volume, and travel destination. The second classification is by Maintenance Responsibility. Entities typically responsible for maintenance include the state, town, private persons, or private organizations.

Functional Classification

ARTERIALS: Usually state highways, arterials comprise a system of connected highways throughout the state that serve through traffic.

COLLECTOR ROADS: Sometimes included in the system of state highways, collector roads serve as feeder routes connecting local service roads to arterials.

LOCAL ROADS: Local Roads serve local areas and residences and are owned and maintained by the town. Some local roads in Alfred with average daily traffic volumes greater than 200 vehicles per day or serving more than 25 residences are also considered collector roads.

TABLE 5-1. Mileage by Functional Classification

Type	Mileage
Arterials	9.03
Collectors	.28
Local Roads	
Functioning as Collectors	18.35
Local Roads	23.26
Other Roads (in national forest)	3.49
TOTAL	54.41

Source: 1991 Alfred Comprehensive Plan

Classification By Maintenance Responsibility

Roads can also be classified by the entity responsible for their maintenance. Some of the roads in Alfred are state highways, where both summer maintenance (paving, drainage) and winter maintenance are the responsibility of the Maine Department of Transportation (MDOT). These are Routes 4, 111, and 202. Most other roads are town ways, and the Town of Alfred has the responsibility for maintenance. There are some dirt roads through the Massabesic Experimental Forest that are maintained by the federal government. There are roads in the town, primarily along Estes Lake, that are private roads, maintained by the property owners served by the roads. Finally, there are about two miles of road that have been abandoned and are not maintained by anyone. Table 5-2 and Figure 5-1 illustrate this information.

TABLE 5-2. Mileage by Maintenance Responsibility

Type	Mileage
Federally Maintained	3.49
State Maintained	9.31
Town Maintained	41.60
Private Roads	5.65
Abandoned, Not Maintained	1.80
TOTAL	61.85

Source: 1991 Alfred Comprehensive Plan

Bridges

State-Maintained Bridges

There are fourteen (14) publicly owned bridges in the town of Alfred. Of these, the Maine Department of Transportation (MDOT) maintains ten (10). MDOT inspects all Bridges and Minor Spans on public ways every two years in accordance with the Federal Highway Administration (FHWA) and MDOT’s Bridge Management Coding Guides. The inspections result in a Federal Sufficiency Rating (FSR) for each bridge, which is calculated by analyzing the condition of each of the bridge’s components, such as the deck, the substructure, the superstructure, etc. Table 5-3 describes the FSR scale.

TABLE 5-3. Federal Sufficiency Ratings

FSR Range	Condition Description	FSR Range	Condition Description
90-100	Excellent	40-49	Poor
80-89	Very Good	30-39	Serious
70-79	Good	20-29	Critical
60-69	Satisfactory	1-19	Imminent Failure
50-59	Fair	0	Failed

Source: MDOT Bridge Management Division

If the FSR on a state-owned bridge located on a state or state-aid highway is less than 50, the bridge may qualify for federal funding, depending upon the individual condition ratings of the bridge’s various components. In Alfred, Nutter’s bridge, which spans the Littlefield River on Back Road, may qualify for these federal funds. Otherwise, all state-owned bridges are in good to satisfactory condition. The bridges and their condition rating can be seen in Figure 5-1.

Town-Maintained Bridges

Alfred and Sanford jointly maintain the Hay Brook Bridge on Stone Road, which was rated as being in poor condition. The three other bridges for which the town of Alfred has maintenance responsibility are the Middle Branch River Bridge, Russell Mill Bridge, and Yeaton Bridge. The bridges and their condition rating can be seen in Figure 5-1.

Alfred Comprehensive Plan, Volume 2: Data Inventory

Heavy Haul Truck Network Bridges

The Heavy Haul Truck Network for the State of Maine, prepared by Wilbur Smith Associates, identifies, based upon current use, a network of roadways that serve the movement of freight by truck. In Alfred, Routes 4, 111, and 202 were identified as part of this system. Also, each of the bridges along these highways become part of the network and may have preference in funding choices as a result of this designation.

Insert Figure 5-1 (11 X 17)

ROAD CONDITIONS

State-Maintained Roads

The Maine Department of Transportation (MDOT) surveyed Alfred’s state-maintained roads in 1998. The MDOT Pavement Condition Rating (PCR) system uses a scale of 0 to 5. A PCR of 3.00 on this scale indicates there are visible defects and a comfortable ride at 45 miles per hour (mph). All of the roadways rated scored higher than 3.27. Table 5-4 presents the description of each highway segment rated, its length and its PCR. This information can also be seen in Figure 5-2.

TABLE 5-4. Pavement Condition Rating, State Highways

Highway	Segment	Length (mi)	PCR (1998)
Route 4A/202	Sanford TL to “change in pavement”	0.91	3.41
Route 4A/202	“change in pavement” to Bennett Road	0.48	3.28
Route 4A/202	Bennett Road to Route 4/111	0.78	3.82
Route 111	Lyman town line to Route 4, 4A	1.86	3.74
Route 4	Sanford TL to “change in pavement”	0.56	4.36
Route 4	“change in pavement” to Route 4A/111/202	1.56	4.43
Route 4/202	Route 111/4A to “change in pavement”	0.55	4.25
Route 4/202	“change in pavement” to Lyman town line	2.32	3.76
Kennebunk Road	Route 111 to Route 4/202	0.28	3.86

Description of Pavement Condition Ratings	5.00	New pavement, comfortable ride at 65 mph
	4.00	Good pavement, comfortable ride at 55 mph
	3.00	Visible defects, comfortable ride at 45 mph, noticeable movements
	2.00	Comfortable ride at 35 mph, frequent movements due to advanced cracking, severe distortion and patching
	1.00	Poor ride, many potholes, sever distortion, rutting and pavement disintegration
	0.00	Out of service

Town-Maintained Roads

The town of Alfred uses the Road Surface Management System (RSMS) developed by the University of New Hampshire Technology Transfer (T²) Center to inventory its roadway network, rate the pavement condition, and help plan and budget for roadway projects. The RSMS calculates a Pavement Condition Index (PCI) based upon a series of identifiable distresses on the roadway surface. The PCI ranges from 0 to 100, with 100 being a newly constructed roadway. Figure 5-2 illustrates the PCIs for some of Alfred’s roads. The condition descriptions were developed as follows: A PCI between 0 and 29 is considered “poor;” between 30 and 49 is considered “fair;” between 50 and 69 is considered “comfortable;” between 70 and 89 is considered “good;” and between 90 and 100 is considered “excellent.”

Insert Figure 5-2 (11 X 17)

Road Use And Performance

Traffic Volumes

Traffic counts measure the number of vehicles traveling by a fixed spot in a given time period. Typically, a volume is recorded every 15 minutes and totaled for the day. The Maine Department of Transportation (MDOT) regularly counts traffic throughout the state. The most recently available counts for Alfred are shown in Table 5-5 and in Figure 5-3.

TABLE 5-5. Daily Traffic Volumes

Road Name	Location	Year	Daily Traffic	% Change from 1995
Route 4/202	North of Court Street	2000	9630	+12%
Route 4/202	North of Kennebunk Rd	2000	11560	N/A
Route 4/202	North of Old Route 202	2000	8650	+14%
Route 4	Southwest of Swetts Bridge Road	2000	8770	+10%
Gore Road	East of Gebung Road	2000	1140	+11%
Gore Road	West of Gebung Road	2000	1190	+12%
Gore Road	Northwest of Old Route 202	2000	2110	+29%*
Gebung Road	Southwest of Gore Road	2000	780	+13%
Whichers Mill Road	Southwest of Mouse Lane	1997	460	-15%
Old North Berwick Road	Northeast of Pools Crossing	2000	830	+15%
Kennebunk Road	East of Clark Road	2000	200	-13%
Back Road	Northeast of Route 111	2000	300	+11%
Pools Crossing	East of Old North Berwick Road	2000	1750	+28%
Mouse Lane	Southeast of Church Road	2000	710	+11%
Clark Road	North of Kennebunk Road	2000	330	+50%
Route 111	Northeast of Route 4	2000	11260	+14%
Route 111	Lyman Town Line	2000	11790	+18%**
Route 111	East of Back Road	2000	11890	+19%

* % Change calculated from 1996

** % Change calculated from 1997

Source: MDOT's 2000 Traffic Count Book, <http://www.state.me.us/mdot/traffic/2000countbook.pdf>

Another interesting analysis using traffic volume information is comparing the number of vehicles that travel a roadway to that roadway's designed capacity. A V/C or volume-to-capacity ratio was calculated using data from MDOT's roadway inventory database. Table 5-6 lists the roadways where V/C is greater than 1.0. These roadways are also shown in Figure 5-3.

Vehicle Miles Traveled

Another measure of the extent of a roadway's use is vehicle miles traveled (VMT). VMT
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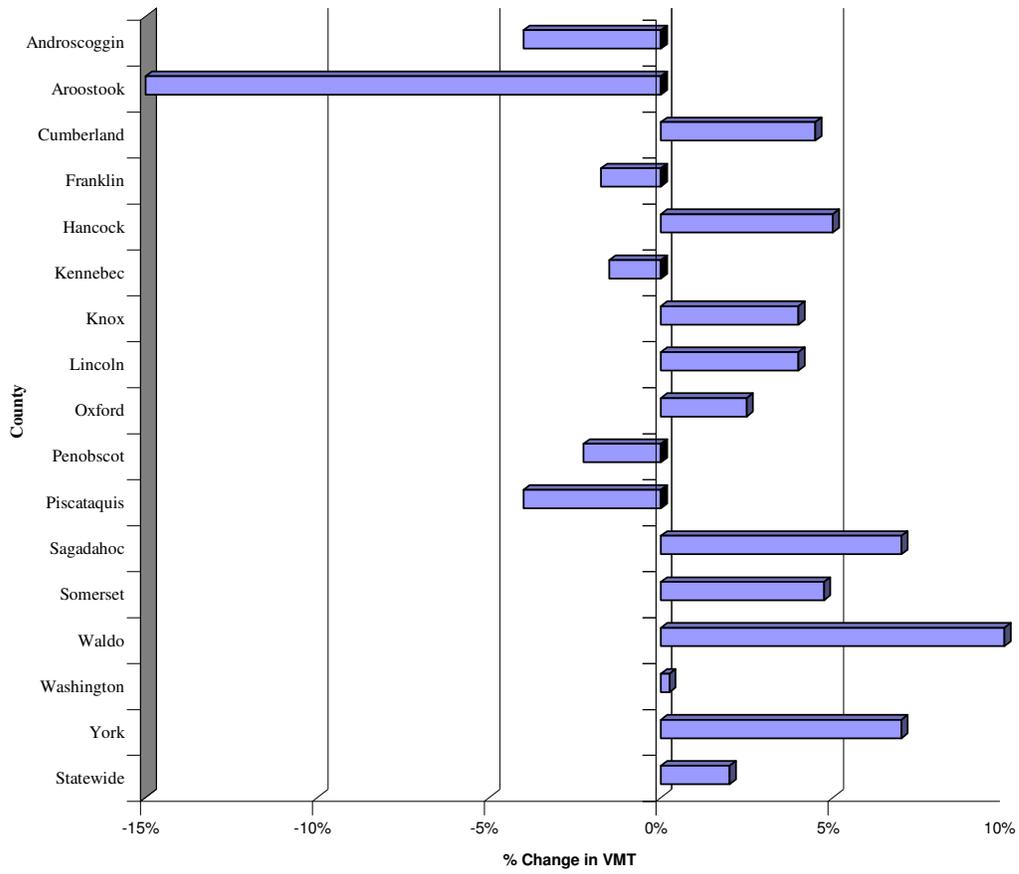
measures the total number of miles traveled by vehicles within a given geographic area. As can be seen in Figure 5-4, VMT in York County increased by approximately 7% between 1990 and 1999. VMT throughout the entire state only increased by approximately 2.5% in the same time period.

Insert Figure 5-3 (11 X 17)

TABLE 5-6. Roadways Functioning Over Capacity

Roadway Name	From	To	V/C Range
Gore Road	Route 202	Federal Street	1.63-2.11
Gore Road	Gile Road	Fort Ridge Road	1.14-1.19
Kennebunk Road	School Street	Route 111	1.31
Old North Berwick Road	Whichers Mill Road	Pools Crossing Road	1.01
Pools Crossing Road	Old North Berwick Road	Lyman Town Line	1.75
Saco Road	Route 202	Route 111	1.04-1.05
Whichers Mill Road	Sanford Town Line	Old North Berwick Road	1.07
Route 4	Sanford Town Line	Routes 111/202	3.49-3.69
Route 111	Routes 4/202	Lyman Town Line	4.28-4.95
Route 202	Sanford Town Line	Route 4/111	4.88-5.26
Route 4/202	Route 111	Lyman Town Line	3.35-4.82

FIGURE 5-4. Percent Change in VMT: 1990-1999



Highway Safety

There are two locations in Alfred where 8 or more crashes with a Critical Rate Factor greater than 1.0 occurred in the three-year period between January 1, 1997 and December 31, 1999. These locations are termed “high crash locations” by the Maine Department of Transportation (MDOT). The Critical Rate Factor (CRF) is the ratio of the actual crash rate to the expected rate (called the Critical Rate). The expected crash rate depends upon road type, vehicle miles traveled and statewide crash ratios. Interestingly, for the 1998-2000 three-year period, that designation was dropped for these locations.

In 2001, Route 111 between Alfred and Biddeford experienced almost 100 vehicle crashes and ten (10) resulting fatalities. Public outcry ensued and MDOT committed resources to study the roadway in detail to address safety concerns. It is understood that most of the vehicle crashes are a result of speed, driver inattentiveness, and vehicles crossing the roadway centerline.

In addition, there are a number of locations in Alfred that are a safety concern. The Comprehensive Planning Committee identified the intersections of Route 202 with Gore Road and Route 111 with Kennebunk Road as being dangerous for vehicle movement. At public meetings, citizens expressed concern about the number of crashes along Route 202. Also, high and fast moving traffic creates hazardous conditions for pedestrians and school-aged children. Figure 5-4 illustrates the safety concerns of the Town of Alfred.

Access Management

For improved safety and speed preservation along the state’s highways, the Maine Department of Transportation (MDOT) has developed a set of access management rules in response to legislation concerned with arterial capacity, poor drainage, and the high number of driveway-related crashes. Any new or changed driveway or entrance on state and state aid highways located outside of urban compact areas must meet specifications described in the rules in order to obtain a permit from MDOT. The rules regulate sight distance, corner clearance, spacing, width, setbacks, parking, drainage, and mitigation requirements.

The rules define mobility corridors as those corridors that connect service centers and/or urban compact areas and carry at least 5000 vehicles per day along at least 50% of the corridor’s length. Retrograde arterials are non-urban compact arterials where the number of crashes related to a driveway or entrance exceeds the statewide average for arterials with the same posted speed. All of Routes 4, 111, and 202 are considered mobility corridors. Routes 4 and 111 are also retrograde arterials.

Insert Figure 5-5 (11 X 17)

Summary

1. Alfred's Transportation System consists chiefly of roads and bridges.
2. There are no mass transit facilities, sidewalks, pedestrian ways, bike paths, or public parking facilities serving the town.
3. The single abandoned railroad bed is now largely privately owned.
4. There are 9.03 miles of state-maintained roads, and 10 state-maintained bridges.
5. There are 41.60 miles of town-maintained roads, of which 19.63 miles are collector roads or are local roads functioning as collectors.
6. With the exception of Nutter's Bridge on Back Road, the state maintained roads and bridges are in good to excellent condition. Since the Federal Sufficiency Rating on Nutter's Bridge is less than 50, it may qualify for federal funding.
7. Routes 4, 111, and 202 have been identified as part of the Heavy Haul Truck Network. The five state-maintained bridges located along these highways are also considered part of the system. The system may have preference in funding prioritization.
8. Of the town-maintained roads, only 10% have fair or poor pavement condition, compared to 40% in 1991.
9. On average, traffic volumes in Alfred have increased over 14% in the five-year period between 1995 and 2000.
10. Approximately 23% of Alfred's roadways are carrying more vehicles than their calculated capacity.
11. Increasing traffic volumes and high speeds create safety concerns in town.
12. New or changed driveways and entrances along Routes 4, 111, and 202 must comply with MDOT's new Access Management rules in order to obtain a permit from MDOT.

CHAPTER 6: MUNICIPAL FACILITIES AND SERVICES

Public Facilities and Services include all town, county, state and federal facilities and services.

Town administered public and semi-public facilities and services are predominately located in the Village District. They include the Town Hall, Fire Station, Rescue Service, Parsons Memorial Library, the Recreation Field, Alfred Elementary School, and the Transfer Station.

County facilities and services are the York County Jail and the York County Court House, plus a new jail facility is under construction on Route 4. During the year 2000, the original jail located on route 111 was sold to a private individual who anticipates converting the dilapidated structure into a commercial building.

State services include the Department of Transportation service and maintenance area on Stone Road, and the new Maine State Police Barracks on Route 202 at the Alfred/Lyman town line.

Federal facilities are the Post Office that leases it's building on Kennebunk Road in the Village, and the Massabesic Experimental Forest, located on 1,754 acres of land in the southeastern corner of the town.

Water Facilities

Under the Maine Rules for drinking water supplies there are three different types of public drinking water systems. They are:

Community Water System (CWS):

Serves water to 25 people, and/or 15 connections on a year-round basis, or regularly serve at least 25 year-round residents. (Example: water districts, water companies, mobile home parks, condominiums, apartment buildings, and places of employment.)

Non-transient Non-community Water System (NTNCWS):

Serves 25, or more people four hours or more per day, four or more days per week, 26 or more weeks per year. (Includes: schools, factories, office buildings, and facilities with 25 or more employees.)

Non-community System (NCWS):

Serves 25 or more people, and/or 15 connections for at least 30 days out of the year. (Includes restaurants, campgrounds, summer camps, motels, etc.)

Active public water systems in Alfred are listed in Table 6-1

Table 6-1. Classification of Alfred Public Water Systems

<u>Establishment</u>	<u>People served</u>	<u>Classification</u>
Alfred Water District	700	CWS
Keywood Manor Mobile Home Park	272	CWS
Walnut Grove Campground	235	NCWS
Central Maine Power Company	90	CWS

Alfred Water District

The Alfred Water Company, which for many years had been a privately owned community water system, changed its form of ownership in the year 2000. The previous owners, in essence, gave the company to the Town of Alfred. The town appointed a committee to study the options as how best to operate the Company. It was determined that the best way for the town would be to operate the company as a Water District. The water district would be eligible for many tax benefits as well as being able to borrow money at reduced rates. A Board of Trustees elected by residents within the Water District would govern it. The remainder of the community would have no control over its operation. The District would generate its own financial needs and not be a part of the town's budget system.

On October 10, 2000, voters of the Alfred Water Company voted to create the Alfred Water District. On the same date, three Trustees were voted in to manage the new Water District. On February 25, 2001, the 119th Legislature created the Alfred Water District, and on June 5, 2001 the Public Utilities Commission approved the Alfred Water District as a Quasi-Municipal Entity. Since then, the Trustees have secured a one million-dollar loan to do specific system improvements, which should be complete in the fall of 2002.

The future goals of the Trustees are to continue system wide improvements, which would be undertaken within the next ten years. Some of these improvements might be new water lines, new hydrants, new storage tank, develop new production wells, upgrade services to customers, extend water source protection, and extend the territory of water service.

The Alfred Water Company was a privately owned Community Water System that began operating in 1911. The storage tank, or standpipe, was installed on Brackett Hill, above the village during that same year.

The District currently supplies water to 237 families, or approximately 700 people. The District also provides water to several public facilities. They include: the County Jail, the County Court House, the Alfred Elementary School, the Town Hall, and the Library. It also serves commercial large-volume users such as George Roberts Concrete Products, Leedy's Restaurant, Hazel Dell Apartments, Woodsedge Apartments, and the Colonial Mobile Home Park.

A dug well, located near Round Pond, supplies all of the Company's water. The well has the Alfred Comprehensive Plan, Volume 2: Data Inventory

capability of producing 150,000 gallons per day (GPD). The company currently supplies approximately 80,000 GPD. The distribution system has ample capacity and the water is of good quality. The only treatment required is to chlorinate.

The Water District supplies water to 33 public hydrants and four private ones. The volume capacity of the hydrants is approximately 500 gallons per minute (GPM). The Town of Alfred presently pays an annual rental fee of \$445 for each hydrant.

In 1983, the Alfred Comprehensive Plan stated that the U.S. Army Corps of Engineers projected that the demand on the water system would increase to 53,000 GPD by the year 2000, and to 87,000 GPD by the year 2030, and that the well's capacity was projected to be adequate for future demands. If new sources of water are required due to deterioration of quality, ample new sources are available. There are good alluvial deposits to the north of the existing well.

The "Federal Safe Drinking Water Act" was amended in 1986 requiring each state to submit to the U.S. Environmental Protection Agency a Wellhead Protection Program designed to protect drinking water quality by carefully controlling the area surrounding any wellhead supplying public drinking water.

In 1986, the governor formed a Ground Water Standing Committee. The committees, consisting of representatives from the State Planning Office and the DHS Bureau of Health Engineering, have developed the "Maine Wellhead Protection Program". It was scheduled to go before the State Legislature in the 1991 session. The last reclassification resulted in changes enacted in 1999.

The Water District participates in the Maine Department of Human Services' voluntary Wellhead Protection Program. Participation in this program allows a public system to be eligible for water quality testing waivers. This consists of a wellhead self-evaluation that allows the system owner to identify potential sources of contamination within the recharge area for the system source well. The Water District's self-evaluation identified a number of potential contamination sources within a 2,500-foot radius of the well. The 1995 Alfred Zoning Ordinance established a watershed protection district around Round Pond and the well.

Sewerage

Alfred does not have a public sewer system. Residents rely upon individual subsurface wastewater disposal systems. These are predominantly single-residence septic tank and leach field systems. However, two residences in the Keywood Manor Mobile Home Park are being served by a single septic system.

Solid Waste

Alfred had a solid waste transfer station. The residents, Alfred businesses, town and county

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facilities, and private waste-collection businesses brought solid waste to the transfer station. Waste disposal permits were required. The town no longer operated a brush dump. The transfer station rested on a one acre covered landfill area located on Route 4 and is still monitored for potential groundwater contamination. Twice a year the town brought in a chipper for brush and woody debris.

The town owns the old transfer site land. The concrete utility building, plus a "Rubb" building, which housed the recyclable materials, has been removed. The town leased the containers and the hydraulic compactor from Waste Management Inc. of New Hampshire. Waste Management Company trucked the combustible portion of the solid waste to Maine Energy Recovery Company (MERC) in Biddeford. Construction debris is trucked to Waste Management's landfill facility in Rochester, New Hampshire.

The old transfer facility is scheduled to be decommissioned in 2002 and a new modern transfer site will come online at that time.

Table 6-2 is a summary of the solid waste disposal and recycling of the town for the last 9 years.

Table 6-2. Solid Waste Disposal & Recycling (tons)

Year	MERC	Landfill	Non-bulk Recycled	Bulk Recycled	Total	Recyclerate
1993	1,026	96.07	43.44	61.29	1,226.8	8.54%
1994	1,198	190	68.09	52.81	1,508.9	8.01%
1995	1,027	195	114.92	73.82	1,410.74	13.38%
1996	978	267.01	117.54	427.06	1,789.61	30.43%
1997	938	159.22	129.34	251.47	1,478.03	25.76%
1998	1,026	156.71	139.09	320.93	1,642.73	28.00%
1999	1,004	114.24	539.31	289.86	1,947.41	42.58%
2000	1,293	210	539	332	2374	36.69%
2001	1,324	266.46	171.18	322.67	2,084.31	23.69%
Totals	9,814	1,654.71	1861.91	2131.91	15,462.53	
Average	1,090.44	183.86	206.88	236.88	1,718.06	24%

In August 1989, the Alfred Conservation Commission started a voluntary recycling program. The project succeeded in removing approximately one ton of glass each week from the waste stream. The program, presently run by the town Solid Waste Committee, collects plastics, newsprint, office paper, cardboard, glass, steel and aluminum cans.

The town is growing close to meeting the limits of its contract for disposal of waste MERC. If waste generation exceeds the limit, the excess may need to be shipped to the landfill in Rochester, New Hampshire. The cost of disposal at that facility is more than 50% of the cost of disposal at MERC.

In the year 2000, the town purchased a 35-acre parcel of land on Route 202 adjacent to the Alfred Elementary School. This property was proposed to be the future transfer station site. Engineering studies and site construction plans are complete, necessary permits have been approved, and contractor bids were submitted, a contractor was selected, and the town voted in the affirmative. The construction project is presently underway and should be operational in late September 2002.

PUBLIC SAFETY

Alfred Fire Department

Alfred has a 30 member volunteer fire department. There is one full-time fireman who receives a town-supported salary. Each member is paid per call attended. The department is responsible for fire suppression, fire safety, and fire safety inspections. The town's public safety building was built in 1994 on the Kennebunk Road site of the former elementary school.

The Alfred Fire Department engages in mutual aid arrangements with Acton, Goodwin’s Mills, Kennebunk, Newfield, Ross Corner, Sanford, Shapleigh, Waterboro, and Wells. For an annual fee, York County dispatch provides services for emergency calls. Up to 200 calls per year are received for such emergencies as structure fires, oil burner problems, carbon monoxide investigations, vehicle fires, brush and grass fires, gasoline wash-downs, and leaking propane tanks. Table 6-3 shows the number of emergency calls over the last ten-year period.

Table 6-3. Alfred Fire Department Emergency Calls

Year	Non-Structure	
	Fires and Other Calls	Structure Fires
1991	158	9
1992	98	20
1993	123	16
1994	190	24
1995	192	11
1996	176	13
1997	151	12
1998	210	6
1999	178	13
2000	224	15

Department members update their skills by participating in continuing training courses, which provide instruction in current firefighter standards and practices. In 1999, the members participated in 27 training courses, totaling 981 hours of training.

Alfred contributes financial support to the Ross Corner Fire Department located just beyond the town line on the Gore road in northern Alfred, serving as protection to the northern portion of Alfred as well as to Shapleigh and Waterboro.

Table 6-4 shows the Fire Department's major equipment and indicates when it can be expected to need to be replaced.

Table 6-4. Fire Department Major Equipment

Item	Year	Condition	Use	Last Improvements	Expected Life Remaining
Safety Building	1994	Good	Heavy		
Freightliner Engine 1,250 gpm pump, 1000 gal tank	1995	Good	Heavy		
Ford Engine 1,000 gpm pump, 500 gal tank	1977	Good	Heavy	1997 Rust repaired 2000 Rust repaired	Replace soon
International Tanker 750 gpm pump, 1,800 gal tank	1965	Good	Heavy	1995 Engine & converted to tanker	Replace by 2003
International Forestry 350 gpm pump, 500 gal tank	1972	Good	Moderate		
GMC Utility	1975	Fair	Moderate		Replace soon

Source: Alfred Fire Department

On July 11, 2000, the town voted to purchase a new Ferrara Fire Truck. This has replaced two existing vehicles: the 1975 GMC Utility, and the 1977 Ford Engine.

Alfred Rescue Department

The Alfred Rescue Squad was a private corporation and was voted to become a town department at the 2002 town meeting. The Alfred Rescue Department provides emergency medical service and transportation to medical facilities. It shares facilities and some volunteers with the fire department. They average 290 calls annually. Surrounding communities provide mutual aid to the Town of Alfred upon request. Alfred Rescue provides assistance for a wide variety of calls ranging from public assists to cardiac arrests. The Rescue volunteers also participate in ongoing mandatory training per State and Federal regulations. The service is dispatched through the York County Communications, located in the County Court House Annex. Since 1998, it has been a combination paid/volunteer service. The service is supported through ambulance billing, tax revenue, and through voluntary contributions from town residents.

The service equipment consists of a 1998 Ford PL Custom Ambulance in excellent condition, and has not needed improvement. The ambulance expected life remaining is 8-10 years.

Alfred does not have a hospital: there are no clinics or other medical-dental facilities in the Town of Alfred. Table 6-5 lists the hospitals for emergency medical service.

Table 6-5. Hospitals Servicing Alfred

Hospital	Location	Travel Distance	Travel Time
Goodall Hospital	Sanford	5 Miles	5 Minutes
Maine Medical Center	Portland	35 Miles	40 Minutes
Southern Maine Medical Center	Biddeford	12 Miles	15 Minutes

Police Protection

The town of Alfred has no Police Department. York County Sheriff’s Department and the Maine State Police provide police protection. Residents calling 911 are responded to by the York County Communications, a dispatch service supported by county taxes and participating towns. Table 6-6 is a brief review of available crime reports.

Table 6-6. Alfred Crime Reports

Call Item	1996	1997	1998	1999	2000	2001
Arrests	43			31	50	73
Motor Vehicle Accidents	127			33	118	129
Traffic Safety Enforcement	293			417	672	738
Domestic Disturbances	40			14	28	18
Simple Assault	20			23	31	55
Burglary	18			22	18	7
Criminal Mischief	40			41	58	31

Source: York County Sheriff’s Reports

The York County Sheriff’s Department offers a “Contract Deputy Program”. This service offers each community special contracts with the County for direct police services.

Emergency Management

The role of emergency management in the town of Alfred is to safeguard the well being of the citizens and protect their property in times of disaster, whether of natural or technological cause.

The Emergency Management Director is appointed by, and works under the direction of the Board of Selectmen. The Director is responsible for the design and implementation of a plan of action. This plan of action will be periodically reviewed as changes in the town's profile, methods of mitigation, or resources dictate. The Emergency Management Director will make educational materials available to the citizens of the town to help prevent and to lessen the ill effects of any disasters, as well as to promote a rapid return to normalcy. Working out of the Public Safety building, the director will be accessible to the townspeople who require assistance.

Library

Built in Greek Revival Style of granite in 1903, The Parsons Memorial Library is in the Center Village District. The National Register of Historical Places includes the library in the Alfred Historic District. (Appendix D). The Library has 2,687 registered users, with the 1999 circulation being 12,132 items. As of March 2000, the library has 16,229 books. The Magnuson addition, which was constructed in 1993, brought the total floor space in the library to 2600 square feet. At present the library is open 20 hours a week. A computer allows the public Internet access.

Town Government

All town government activities are centered in Alfred Town Hall. Built in the early 1900s, the Town Hall is listed on the National Register of Historic Places (see Appendix D). In 1983 the building was renovated to centralize the town government activities, some of which were formerly carried out in town officials' homes. This resulted in improved efficiency, better working conditions, and improved accessibility for residents. The Town Hall is now open Monday through Thursday, 8:00 to 5:00 and Friday 8:00 to noon, with several officers having evening hours. The large public room upstairs is used for meetings, hearings, and community cultural activities. The Alfred Elementary School is used for larger public meetings. It is felt that the offices are meeting the current demand, and expansions/changes will only be needed if the town continues to grow, and the demands placed on the Town Hall increase.

Alfred's town government is run by a combination of elected and appointed officials and volunteer citizen committees or boards. The elected officials are the three Selectmen, Town Clerk, Treasurer, Tax Collector, Board of Assessors, School Board and Library Directors. The following municipal officials are appointed by the Selectmen: Plumbing Inspector, Animal Control Officer, Health Officer, Registrar of Voters, and Code Enforcement Officer. Standing boards and committees, made up of interested citizens, are the Planning Board, Zoning Board of Appeals, Park and Recreation Committee, Solid Waste Committee, Conservation Commission and Budget Committee. The Selectmen, on as-needed basis, appoint other committees such as the Comprehensive Planning Alfred Comprehensive Plan, Volume 2: Data Inventory

Committee.

Communication

Communications facilities serving the Alfred area are:

US Postal Service	Alfred
Verizon	Alfred
Cable Television of the Kennebunk's	Kennebunk
Public Television	(Regional)
Network Television	(Regional)
WSME, AM radio	Sanford
WCDQ, FM radio	Sanford
WIDE, AM Radio	Biddeford
WYJY, FM Radio	Biddeford
Selectmen's Newsletter	Alfred
Sanford News, weekly newspaper	Sanford
County Coast Star, weekly newspaper	Kennebunk
Smart Shopper, regional weekly	Waterboro
Journal Tribune, daily newspaper	Biddeford
Portland Press Herald, daily newspaper	Portland

Education

Alfred is part of School Administrative District (SAD) 57. The other towns in the District are Lyman, Newfield, Limerick, Shapleigh, and Waterboro. The District schools serving Alfred are the Alfred Elementary School, Massabesic Junior High School, and the Massabesic High School.

The Alfred Elementary School, built in 1987, is in excellent condition. Serving grades kindergarten through grade 6, it has a student capacity of 300. Recreational facilities include a playground and baseball field.

Massabesic Junior High School serves grades 7 and 8 for all the towns in the district. Built in 1973, its capacity is 400 students. Though the school is in good condition, it is overcrowded, and now has several portable classrooms. School facilities include several ball fields. SAD 57 is presently seeking funding for a new Junior High School as well as a suitable location.

Massabesic High School serves grades 9 - 12 for all district towns. It was built in 1968 and an addition was built in 1986. It has a capacity of 925. The building is in excellent condition with facilities including a gymnasium, an auditorium, fields for football, baseball, soccer, and field hockey, and tennis courts.

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Table 6-7 shows enrollments for Alfred students by grade from 1990 to 2001 the total school enrollment is also included.

Table 6-7. Alfred Student Enrollment Figures, 1990 to 2001

Year	Grades													Spec	Total
	K	1	2	3	4	5	6	7	8	9	10	11	12		
1990	38	33	34	28	32	34	29	30	19	20	25	17	25	22	386
1991	43	38	31	30	29	28	31	26	33	26	21	18	22	26	402
1992	33	50	36	35	28	40	30	30	33	28	32	16	15	29	435
1993	34	53	36	38	30	38	32	29	29	30	31	16	13	19	428
1994	31	33	46	34	34	31	35	27	34	33	27	23	16	15	419
1995	21	29	35	47	34	34	30	32	27	38	26	21	21	12	407
1996	29	25	35	37	51	41	35	33	32	31	32	17	21	7	426
1997	27	33	25	38	39	52	36	36	36	34	25	25	21	13	440
1998	22	27	31	24	34	41	48	38	36	41	22	21	29	7	421
1999	22	22	24	31	25	33	42	46	37	39	29	22	20	10	402
2000	24	25	22	29	30	24	31	34	51	43	26	25	22	9	395
2001	28	27	29	23	31	31	24	33	35	65	27	26	28	5	412

Current capital improvements in the district include: work on the bus maintenance facility at the Massabesic High School/Junior High School Complex in Waterboro, and a new Junior High School facility is currently in the planning stages.

Human Services

The town appropriates approximately \$10,000 annually for general assistance. In 1990, the town overspent the appropriation for general assistance by \$9,799.50. State services are available through the State Department of Human Services. Alfred appropriates tax-revenues for the following services: Visiting Nurses Services of Southern Maine, Inc., York County Home Care, York County Community Action Corporation, Southern Maine Area on Aging, The Children’s Center, Inc., York County Child Abuse and Neglect Council, York County Counseling Services, Caring Unlimited, the York County Center Against Domestic Violence, and Day One.

Summary

1. In the year 2000, the Water Company changed ownership by converting to a Water District. This is a quasi-municipal form of operation.
2. Solid Waste is an ongoing problem in Alfred. The tonnage increase in the 90's was not as dramatic as that of the 80's. Recycling by the residents has increased substantially during the past decade. This

has helped reduce the cost of waste disposal.

3. Alfred continues to have a volunteer fire department. It does however have one full-time fireman.

CHAPTER 7: RECREATION

Alfred’s recreational facilities and programs consist of the athletic field, school facilities, private facilities, and assorted programs. The volunteer Parks and Recreation Committee administer the programs. In the future, if there is public access, Alfred’s surface waters and extensive undeveloped land will support expanded recreational activities.

The Parks and Recreation Committee

The Parks and Recreation Committee is a town committee consisting of volunteers appointed by selectmen, with a minimum of five members who serve three-year terms. The committee meets on the first Tuesday of the month and at other times when necessary. There is a chairperson appointed by the committee.

The committee is responsible for organizing and providing a variety of activities and programs for the citizens of Alfred. The committee is also responsible for the maintenance of the ten-acre park on Kennebunk Road and School Street. It is studying this property to create a vision of how best to utilize this space based on the needs of the users.

Programs

The Parks and Recreation Committee offers the following activities/programs:

Program	Participants
Youth Basketball	136
Soccer (through Massabesic United Soccer League)	75
Indoor Soccer	75
Youth Tennis Lessons	8*
Adult Tennis Lessons	8*
Skiing	10
Skating	220

Winter Carnival had a variety of activities including a fishing derby, family game night, horse drawn wagon rides, snow sculpture and a Portland Pirates game. Hundreds of people participated.

*There was a waiting list for both youth and adult tennis lessons. The program could accommodate only sixteen people for these individual lessons.

All programs are organized and supported by volunteers. Financial support for these programs comes from town appropriation and participation fees.

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Facilities

Groups utilize both private and public facilities for their recreation programs. The town owns and maintains the 10-acre recreational area that is in the Village District on Kennebunk Road and School Street. This lot was deeded to the town with the restriction that it must be used for athletic activities. The area contains: a playground area, 2 ball fields, a basketball court, 2 tennis courts, a concession stand, a picnic table and grille, portable toilets and bleachers at one of the ball fields. The committee is preparing a skateboard park and installing donated playground equipment here. Recent improvements include installation of fencing and railroad ties that delineate parking spaces.

The Alfred Elementary School has a gymnasium used for basketball, a ball field, a playground and a storage shed built specifically for the Parks and Recreation Committee's use.

The Brothers of Christian Instruction on Shaker Hill Road, maintain a skating rink, playing fields, swimming area and meeting facilities which are available to the public for a fee.

Town Hall has an auditorium and stage.

Massabesic Experimental Forest (MEF)

The U.S. Forest Service purchased this research forest in the early 1930's. The largest blocks of land were obtained from Bates College, which in turn had received the land from the estate of Benjamin C. Jordan, an Alfred lumberman about 1900.

This parcel which is nearly 1,800 acres, is now part of the National Forest system, and is the only federally owned research forest that provides study opportunities in New England in the eastern white pine-northern red oak type. The mission of the MEF is to provide a location where long-term research and demonstrations on forest ecosystems can be carried out.

In 1998 and 1999, the U.S. Forest Service conducted an ecological inventory plan at the MEF. This is a necessary first step toward managing an experimental forest to protect vulnerable features and prioritize effectively. Several volunteers from the Town of Alfred helped in conducting this inventory. New populations of rare plants were discovered including the small Whorled Pogonia (federally threatened) and Upright Lind Weed (state threatened). Also documented was a four-toed salamander, gray tree frogs and many other reptiles and amphibians.

The Alfred Conservation Commission has helped establish several walking trails in the MEF

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that are open to the general public. The forest is also open to hunting and snowmobiling.

Regional Recreational Resources

There are local swimming, picnicking, and camping facilities in Alfred, at Bunganut Lake in Lyman and on the Sanford side of Estes Lake. Sanford offers a golf course, indoor recreation facilities including bowling and the YMCA swimming pool, tennis courts, and town parks.

Seashore recreation is available within twenty miles. The nearby lakes and mountains offer a wide range of outdoor recreational opportunities including: camping, hiking, skiing, snowmobiling, hunting and fishing - all within easy driving distance.

Summary

1. The Parks and Recreation Committee is committed to developing new activities and programs that will encourage participation from a greater percentage of Alfred residents. It is actively pursuing such varied programs as bus trips for shopping and/or ball games, swim lessons, volleyball, golf and in-line skating.
2. The committee will oversee the completion of the skateboard park and continue to improve that area.
3. After studying the park and designing a plan of the most effective use of the area., the committee will install the donated playground equipment, continue with plans for a covered picnic area and create a walking path/nature trail. Long range plans include providing additional parking and creating multi-purpose athletic fields.

CHAPTER 8: WATER RESOURCES

Alfred's water resources include the following: a lake, ponds, rivers, streams, brooks, wetlands, sand and gravel aquifers, bedrock aquifers, and groundwater. These resources provide the town with drinking water; they sustain agricultural and forest resources; they create fisheries and wildlife habitat; they provide recreation; and they augment the scenic qualities of the community.

Alfred Lake and Ponds

Alfred has three great ponds and one other pond that is not large enough to be considered a great pond but is of local importance. See Volume 1 Appendix B Map 1, Base Map.

Estes Lake is approximately 353 acres in area, and is 215 feet above sea level. A dam impounding the Mousam River and its Alfred tributaries creates the lake. It is 1.6 miles long to the point of narrowing above Goodwin's Bridge. It lies along the southwest border of the town. The boundary between Alfred and Sanford is the midline of the lake. See volume 1 Appendix B, Map 4, Town Of Alfred Important Natural Areas.

The uses of Estes Lake are both recreational and commercial. There are year round and seasonal homes on each side. The lake is used for boating and fishing. The fishery supports warm water species. There is public access to Estes Lake on a foot trail through the Massabesic Experimental Forest. The commercial uses include a private hydroelectric company at the dam and the Lavalley Lumber Company that uses the water for a biomass boiler where the Mousam River enters the lake. A point source discharge from the Sanford wastewater treatment plant enters the Mousam River approximately 4 miles upstream from the Lake.

Middle Branch Pond, 49 acres in size, is located in the northernmost part of town. It is 419 feet above sea level, 0.4 miles long and 0.2 miles wide. It is on the town's northeast border, where the Alfred-Waterboro town line divides the pond in half. Fishing and recreation are the principal uses. Seasonal homes occupy the Waterboro shore. There is no public access from Alfred. The pond is the source of the Middle Branch River.

Shaker Pond, in central Alfred, is on the West Side of Route 202. The old railroad bed runs between the shore and Route 202. The pond is 230 feet above sea level, 0.7 miles long, 0.3 miles wide, and its surface area is 86 acres. It has two main inlets: Shaker Brook, flowing into it from Waterboro and the wetlands on the north side of the lake, and the brook that drains Bunganut Lake in Lyman. Shaker Pond is the source of the Littlefield River. The pond has several seasonal and year round homes on its shores. It provides swimming, boating, and fishing principally warm water species. Winter recreation includes ice fishing, skating, and snowmobiling. Because the lake does not have public access, the uses mentioned above are not easily available to residents. Around the pond, there are

pastoral scenic vistas that enhance the town's rural character. In the mid-1990s a cranberry bog was proposed near the wetlands on the north shore, but it appears these plans have been abandoned.

Round Pond, only 8.6 acres in size, is 215 feet above sea level. It is vitally important because it is close to the well that supplies water to the Alfred Water District which supplies water to 700 year round residents and leases hydrants to the town for fire protection. The pond is a little less than a mile south of the village center, just east of Route 4. Because of its proximity to the Alfred Water District, it has no recreational or other uses.

The Maine Department of Environmental Protection gives a "GPA" rating to all four of these ponds. This rating means that the Department aims to maintain the water quality as suitable for drinking water (after disinfecting), recreation, industrial processes and cooling water supply, hydroelectric power generation, navigation, and fisheries and other aquatic life.

These bodies of water, like all lakes and ponds in Maine, are vulnerable to pollution. Growth, development, and agricultural practices in their watersheds may affect the capacity of the water bodies to cleanse themselves naturally of polluting materials.

Table 8-1. Alfred Water bodies

Name	Surface Area, Acres	Drainage Area, Square Miles	Maximum Depth, Feet
Estes Lake	353	18.23	30
Middle Branch Pond	49	0.34	26
Shaker Pond	86	2.76	22
Round Pond	8.6	0.10	-

Source: Dept of Environmental Protection

The Lake Phosphorus Control Program, D.E.P.

The Lakes Division of the Maine Department of Environmental Protection has developed a program to evaluate the cumulative impact of and to control the effects upon lake water quality of development and agricultural practices in watersheds.

The program is based on the premise that phosphorus is one of the most important elements that threaten to pollute lakes. The natural lack of phosphorus, an important nutrient needed for plant growth, is the limiting the factor in the growth of algae in lakes. The addition of phosphorus allows accelerated algae growth and threatens water clarity, dissolved oxygen content and fisheries habitat. The

methodology used in Tables 8-2 and 8-3 is from *Phosphorus Control in Lake Watersheds: a Technical Guide to Evaluating New Development*, by the Maine Department of Environmental Protection.

Using this methodology, communities can protect their surface waters by determining just how many pounds of phosphorus per acre in the watershed should be permitted to enter the pond before water quality is threatened. The calculation for the amount of phosphorus permitted per acre is described below.

Determination of the per acre allocation of phosphorus involves the following two steps:

1. Establish an acceptable phosphorus (P) increase for each lake or pond. (Table 8-2)
2. Determine the per acre allocation for each watershed. (Table 8-3)

Table 8-2. Acceptable Phosphorus Increase for Each Lake or Pond

Lake Name	D.A./Town ¹ (Acres)	Percent D.A., Town	Lbs. P = Change Of 1ppb ²	Water Quality Categ. ³	Level Of Protection (H,M,L,)	Acceptable Phosphorus Increase
Estes Lake	11,150	72%	72.490	Mod/Sens	Medium	72.490
Estes Lake	519	9%	4.422	Mod/Sens	Medium	4.422
Middle Branch	217	42%	2.156	Mod/Sens	Medium	2.156
Shaker Pond	1,764	17%	12.606	Mod/Sens	High	9.555
Round Pond	62	100%	0.616	Mod/Sens	High	0.462

Table 8-3. Determination of Per Acre Allocation of Phosphorus for Each Watershed

Name	Direct D.A. Town (Acres)	Acreage Suitable/ Available For Development ⁴	Future Area Of Development ⁵	Per Acre Allocation Of Phosphorus ⁶
Estes Lake	11,150	9,707	1,456 (15%)	.050
Estes Lake	519	473	118 (25%)	.037
Middle Branch	217	154	39 (25%)	.055
Shaker Pond	1,764	1,428	286 (20%)	.033
Round Pond	62	56	14 (25%)	.033

Footnotes to Tables 8-2 and 8-3:

1. D.A./Town is the direct drainage area (watershed) of the lake in the Town of Alfred.
2. Figure from D.E.P., pounds of phosphorus that, if added to the lake, would increase the level of dissolved P by 1ppm.
3. Moderate/Sensitive - Lakes with an average Secchi Disk reading between 10 and 20 feet. Algae levels are moderate (chlorophyll A 4 to 7 ug/l). Phosphorus 10-20 ppb. These waters have a high potential for developing algae blooms because of significant summertime depletion of dissolved oxygen in the metalimnion and/or large seasonal fluctuations in algae and nutrient levels. Many lakes are in this category because of their vulnerability to small increases in phosphorus concentrations. This is also the default category when water quality data are not available.
4. Total acres of direct drainage, minus steep slopes, wetlands, undevelopable land, and land already developed.
5. Estimated acreage that may be developed in the next fifty years.
6. Acceptable phosphorus increase divided by the acres of potential development in fifty years. This is the maximum amount of phosphorus in pounds per year that can be exported from each acre in the watershed without causing a significant change in the water quality of the lake over the next fifty years.

Alfred Rivers and Streams

Map 4, Town Of Alfred Important Natural Areas, shows Alfred's rivers and streams. The longest river is the Middle Branch, originating at Middle Branch Pond. It runs the length of the town, in a southward direction. It is joined by two tributaries: the Littlefield River, which drains Shaker Pond, and Hay Brook, which forms the southwestern town boundary from Mountain Road, at the Sanford line, to the point where the brook joins the Middle Branch River, near the Stone Road Bridge. The Middle Branch has scenic areas, a picturesque area being its swift water at Yeaton Bridge, on Brackett Road. There the river opens into a large pool surrounded by wetland and forest cover. Historically, the Middle Branch River provided power for saw mills. Today the principal uses are fishing, and, in its southern segment, boating and fishing.

The Littlefield River meanders south from Shaker pond and is wide at some points until meeting the Dam at Littlefield Mills. It then flows into the Middle Branch River below Swett's Bridge. The 1983 Comprehensive Plan mentioned the possible use of the Littlefield Mills Dam for hydroelectric

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power. There are scenic vistas from the Route 111 bridge looking to the south, and another one looking upriver from the dam. The mills dam itself provides a pleasant vista from the bridge. Today, the principal uses of the Littlefield River are fishing and waterfowl hunting. Along the course of the river between Shaker Pond and the Littlefield Mills Dam, the Maine Department of Inland Fisheries and Wildlife has identified three wetland areas as waterfowl and wading bird habitat. Two of the wetland areas are "high value" habitats and one is "moderate in value." (See Chapter 9, "Critical Natural Resources.")

Hay Brook forms the southwest boundary of the town to the point where it opens up to a wider meandering course from the Stone Road bridge to the junction with the Middle Branch a half mile below the bridge. This is an area of pastoral beauty. Well-kept fields slope down to the winding open water of the widening brook, against a backdrop of woodland. There is a high value wetland on the brook, just east of route 4. Principal uses of Hay Brook are fishing, and boating below Stone Road Bridge.

The Maine Department of Environmental Protection has rated these waterways, except Hay Brook, as "Class B." This classification means water quality will be maintained as suitable for drinking water (after treatment), fishing, recreation, industrial process and cooling water supply, hydroelectric power generation, navigation, and as a habitat for fish and other aquatic life. This habitat is characterized as unimpaired. Class B is the third highest rating.

Alfred Watersheds

A watershed is the area of direct drainage surrounding a watercourse or a body of water. It is bounded peripherally by a line beyond which water drains to other waterbodies. There are ten watersheds that are either completely or partially within Alfred's borders. See Volume 1 Appendix B Map 5, Town of Alfred Hydrologic Features and Topographic Lines.

According to the Maine Department of Environmental protection, the combined total number of square miles in the direct drainage areas of Estes Lake, Middle Branch Pond, Shaker Pond and Round pond is 26.26 square miles, or 74% of the town's total 29.06 square miles. (See Table 8-1) Round Pond is "landlocked." Its watershed, 0.10 square miles, drains solely into Round Pond. The Middle Branch and Shaker Pond watersheds ultimately drain, via their outlets, into Estes Lake. Thus, three quarters of the town's land area ultimately drains into Estes Lake. The other quarter of the town's land surface area drains into water bodies outside Alfred.

Regional Watershed Impacts

The Shaker Pond watershed includes the center of Waterboro, via Shaker Brook, and extends northward to within a half mile of Little Ossipee Pond. Nearly the entire developed area of south

Waterboro lies within the Shaker Pond Watershed. Shaker Pond also ultimately receives the drainage from Bunganut Lake in Lyman. Most of the western and southwestern margin of the town receives Sanford drainage into Hay Brook, the Middle Branch River, and into Estes Lake.

Along the southeastern town line, drainage from Alfred, principally in the Massabesic Experimental Forest, flows into Lyman and the Kennebunk River Watershed.

All the watersheds draining into Estes Lake ultimately affect the quality of the Mousam River as it flows through Kennebunk to the Atlantic. Thus, Alfred's contribution to the Mousam River via Estes Lake combines impacts not only of Alfred but also of Waterboro, Lyman, and Sanford.

Aquifers

Subsurface water that fills the spaces between particles of rock and soil is called ground water. Approximately 90% of the rural population in Maine obtains its water from wells. In Alfred almost all households use ground water, either from individual private wells or from the wells of the Alfred Water District.

An aquifer is a subsurface water supply that yields useful quantities of ground water to wells and springs. There are two types of aquifers in Maine: (1) surficial materials (Sand and Gravel Aquifers), and (2) fractured bedrock. Coarse-grained surficial materials such as sand and gravel can transmit large quantities of ground water, and are generally the most productive water resources. In a bedrock aquifer, ground water is stored in fractures in the rock. Areas with many fractures may contain large amounts of water. Where coarse-grained surficial deposits are thin or absent, wells drilled into bedrock aquifers provide the only choice domestic water supplies.

Alfred's Sand and Gravel Aquifers

Volume 1, Appendix B, Map 6, Town of Alfred Wet Soils (Hydric), Steep Slopes and Farm Soils, shows the location of sand and gravel aquifers in Alfred. Moderate yield aquifers have 10-50 gallons per minute and the high yield aquifers are 50 or more gallons per minute.

There are two high yield aquifers. The largest one is in the central southwestern part of town, from Hay Brook north to the intersection of Routes 4, 202 and 111, and extends east from Bennett Road almost to Kennebunk Road. Round Pond and the Alfred Water District well are over this aquifer. The Alfred Transfer Station, located on a closed landfill, abuts the lot where the public water system well is located. The Water Company well yields 150,000 gallons per day, or 104 gallons per minute. Within this aquifer area, the depth from the surface to the water table is 15 to 35 feet. The minimum thickness of sand and gravel varies from 7 to 38 feet, with most borings showing 20 to 30 feet.

The Alfred portion of the second high yield aquifer is smaller than the one near the village. It occupies all the southern tip of town, extending from the town line at the southern tip northward for 1.1 miles. This aquifer also lies under the adjacent areas of Lyman and Kennebunk. The depth from the surface to the water table is 6 to 11 feet, with one well being 15 feet. The depth of sand and gravel is 27 to 32 feet. This aquifer can yield 120 gallons per minute.

Two moderate yield aquifers (less than 50 gpm) are in Alfred. One, a narrow strip, follows the Middle Branch River from North Alfred southward along Gebung Road almost to the first Sanford town line.

The second moderate yield aquifer is much larger, extending from the Waterboro town line at Shaker Brook and becoming wider in central Alfred. It underlies the entire Village and Center Village Districts and it continues southward through Littlefield mills and along the shore of Estes Lake until it meets the southern high yield aquifer. This aquifer also underlies Waterboro to the north and a large part of Sanford to the south.

Alfred's Bedrock Aquifers

The most recent data relating to bedrock aquifers in York County are the *Groundwater Resource Maps, 1975*, published by the Division of Hydrology, Maine Geological Survey, Department of Conservation. This is being updated by Maine Geological Survey (MGS) and the Maine Department of Environmental Protection (MDEP). More information is available on the Maine Department Of Conservation's website.

The total depth of "overburden" (the layer of surficial deposits over the bedrock) in Alfred varies from 20 to 50 or more feet. The bedrock wells in Alfred are generally 100 to 300 feet deep. Some bedrock wells near Littlefield Mills are under 100' feet deep. Of Alfred's 13 bedrock wells reported on the 1975 Groundwater Resource Maps, nine had yields below 10 gpm, two yielded 10 gpm, and two yielded greater than 10 gpm. Water from many of Alfred's bedrock wells has high iron concentrations.

Point Source Discharges

Point source discharges are generally direct discharges into water bodies, usually by way of pipes. They are usually licensed. Examples are discharges from sewage treatment plants and from manufacturing industries.

Alfred has no licensed point source discharges; however any regional point source discharges into waters draining into Alfred's watersheds would obviously impact the water quality of Alfred's water resources.

Non-Point Sources Of Groundwater Pollution

Using town records, Department of Environmental Protection sources, and by conducting a town-wide "windshield survey," the committee inventoried potential threats to the quality of Alfred's groundwater. The lots identified as potential sources of groundwater pollution are listed in a database available in the town office.

Documentation of proven contamination has not been made for the lots that were identified. The inventory uses the categories of pollution defined by the Maine State Department of Environmental Protection. Planning agencies have recommended that the categories be used for inventories of groundwater resources. The lots identified are included in the list because they have a land use category designated by the State Department of Environmental Protection as having *possible sources* of ground water pollution.

Table 8-5 summarizes the number of identified sites by the type of potential groundwater contamination. Some lots were listed more than once, because those lots had multiple uses associated with more than one potential source of contamination of groundwater.

Table 8-5. Potential Non-Point Sources of Pollution, With Number of Parcels by Pollution Category

Abandoned Wells	1
Agricultural Spreading, Machinery, Filling, Cleaning	6
Auto Repair, Rust proofing, Body Shops	10
Electrical Generation, Service Facilities	3
Electrical Shops	2
Large Septic Systems operating at or Near Capacity	4
Agricultural Activities, Fertilized Fields	17
High Density Residential Shorefront Land Use	66
Furniture Makers, Strippers, Finishers, Painters	3
Service Stations, Garages	4
Graveyards, Currently Used, and Old	47
Junk and Salvage Yards	4
Landfills, Dumps, Transfer Stations	2
Large Consumers of Groundwater	11
Feedlots, Manure Piles	22
Metal Platers, Welding	2
Miscellaneous	8
Pesticide & Herbicide Use, Storage	6
Salt and Sand Piles	2
Septage Disposal Site, Old or Current	1
Small Engine Repair Shops	1
Underground Storage Tanks (Number Registered=68)	46
<u>Class V Injection Wells</u>	<u>6</u>
Total Parcels with Potential Groundwater Pollution:	298

Source: D.E.P., town records, and committee survey, 1990

Existing Measures To Protect Water Resources

Current Land Use Ordinances provide for protection of shoreland and riparian areas by regulating land uses in the Shoreland District and the Resource Protection District. The ordinances are now in conformity with the most recent Shoreland Zoning laws.

Plumbing codes meet state standards.

The Planning Board reviews all applications, and requires review by the Department of Environmental Protection when appropriate.

Summary

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1. Alfred has one lake on its border with Sanford, and three ponds. These waters are rated "GPA": they are highly vulnerable to phosphorus loading. Estes Lake is projected to have an increase of 1 ppb of Phosphorus in the next ten years, and is classified as "extremely vulnerable." Only 0.7% of the total surface area of Maine's Lakes is "extremely vulnerable."
2. Alfred's rivers and streams, except Hay Brook are classified as "B" water quality. (The third highest rating)
3. Seventy five percent of Alfred's land area drains into Estes Lake.
4. Watersheds extending into Waterboro, Lyman and Sanford impact Alfred's water bodies.
5. Alfred has two high yield sand and gravel aquifers.
6. The high yield sand and gravel aquifer supplying the Alfred Water Company abuts the Transfer Station and the abandoned Alfred Landfill.
7. Approximately 1,800 Alfred residents use groundwater supplied by private wells and approximately 700 people are served by the Alfred Water Company. (See Chapter 6, "Public Facilities and Services.")
8. Alfred has no licensed point source discharges.
9. In 1990, there were 298 sites with potential non-point source pollution in Alfred.

CHAPTER 9: CRITICAL NATURAL RESOURCES

Critical Natural Resources include the following: identified wetlands, significant wildlife and fisheries habitats, significant or endangered plant communities, identified unique natural areas, and scenic areas. This chapter inventories these resources, and discusses identified and potential threats to their existence, physical integrity or quality. The chapter includes existing measures that protect or preserve the identified critical natural resources.

The most recent data on critical wildlife and plant habitats was surveyed in September 2001 in the Beginning With Habitat Project coordinated by the Department of Inland Fisheries and Wildlife.

Wetlands

The collective term, "wetlands," means marshes, swamps, bogs, and similar areas that often develop between dry land and open water.

DEFINITION: "Wetlands are lands transitional between terrestrial and aquatic systems, where the water table is usually at or near the surface, or the land is covered by shallow water. For the purposes of this classification, wetlands must have all three of the following attributes:

1. At least periodically the land supports hydrophytes (wetland vegetation).
2. The substrate is predominantly undrained (waterlogged) soil.
3. The substrate is nonsoil, and is saturated with water, or covered by shallow water at some time during the growing season of each year."

(U.S. Fish and Wildlife Service. Cowardin, et al. 1979)

With increased understanding of their ecology, wetlands are no longer regarded as wastelands; now they are valued as precious natural resources. They help to improve water quality, reduce flood and storm damage, provide important habitat for fish and wildlife, support rare plant and animal species, and they provide recreational opportunities including hunting, fishing, bird watching, and nature walks.

Location Of Wetlands, Deer Wintering Areas, And Fisheries

The Maine Department of Inland Fisheries and Wildlife has mapped, and rated the value of 26 wetlands in Alfred. There are two identified deer wintering areas, and there are nine identified fisheries. The rating methodologies, used by the Department of Inland Fisheries and Wildlife, for wetlands, deer wintering areas, and fisheries are in Volume 1, Appendix B, Map 4, Town Of Alfred Important Natural Areas. The map shows the locations for each critical natural resource.

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Table 9-1 shows the identified wetlands and the rated value of each wetland.

State officials, wildlife experts, botanists, and conservationists have recommended that a 300 foot buffer zone, around the border of high value wetlands, should be required to protect wildlife habitat, rare plant life, and to prevent degradation of groundwater.

Deer Wintering Areas

There are two identified deer wintering areas: (1) a large area occupying most of the land on the east side of the length of Ida Jim Road and extending to the Lyman Town Line, and (2) a smaller one northeast of North Alfred, South of Avery Road, extending to the Waterboro Town Line. Both were rated "High Value." The Dept. of IF&W rating system is in Volume 2 Appendix A, and the locations of the deer yards are designated "D3" on Volume 1, Appendix B, Map 4, Town Of Alfred Important Natural Areas.

"New development is generally not compatible with the maintenance of suitable conditions in deer wintering areas, and should be very closely regulated. In most cases, development should not be permitted in high (D3) or moderate value (D2) value deeryards. Prior to any development in a low (D1) value deer yard, or areas of unknown (D5) value, MDIFW should be consulted about appropriate land uses to prevent fragmentation or loss of deer wintering habitat."

(The Maine Department of Inland Fisheries and Wildlife, in *Significant Fish and Wildlife Resources of Coastal York County, Maine, January 1989.*)

Officials in MDIFW further recommend that a specific amount of timber harvesting in deeryards should be allowed because it is an essential component of deer wintering area management. Fifty percent of a deeryard area should be maintained as mature softwoods. The total timber harvest over a fifteen-year period should not exceed 20% of the total timber volume. Single openings in the forest canopy created during timber harvesting should not exceed 14,000 square feet, and openings larger than 10,000 square feet should be no closer than 150 feet to one another. Only temporary light use roads are recommended for timber harvesting purposes. Consultation with MDIFW is recommended before approving a deer wintering area management plan.

Recently, a clear-cutting lumber operation destroyed much of the habitat in the smaller deeryard in North Alfred. The clear cutting altered the habitat of about 100 acres.

Table 9-1. Alfred Wetlands Rated for their Significance as Habitat for Waterfowl and Wading Birds

Location	High	Mod.	Low	Unknown
Littlefield R. South - Just N. of Littlefield Mills	H			
Shaker Pond Outlet - Southeast of Shaker Pond	H			
Littlefield River (North) - Northeast Alfred Center		M		
Shaker Pond - East of Yeaton Hill	H			
Middle Branch Pond - Northern Corner of Alfred			L	
Middle Branch River - 2.25 Miles West of Yeaton Hill			L	
Middle Branch River - Just East of Gebung Road			L	
Middle Branch River - .25 Miles South of North Alfred			L	
Middle Branch River - South of Littlefield Mills			L	
Conant Brook North - Extreme Northern Tip of Alfred			L	
Estes Lake - South of Massabesic Experimental Forest			L	
Hay Brook - Stone Road Bridge	H			
Conant Brook South – NW of Middle Branch Pond				?
Middle Branch Pond Outlet – S of Middle Branch Pond			L	
Middle Branch River - Both Sides Mid-Gebung Road	L			
Shaker Brook - North of Shaker Pond				?
Beaver Hill Pond Outlet-Gebung Rd, SE Beaver Hill Pond				?
Trafton Brook North - West of Brackett Hill				?
Trafton Brook South - Southwest of Brackett Hill				?
Middle Branch River - South of Yeaton Hill				?
Littlefield Mills - 0.5 Miles East of Littlefield Mills				?
2.1 Miles South of Littlefield Mills - 0.1 Mi. S. Jct. Mouse Lane and Ida Jim Rd.				?
Massabesic Experimental Forest - Eastern Border				?
Massabesic Experimental Forest - Southeast Corner				?
1 Mile Northeast of Estes Lake - NE of the Jct. of Whichers Mills & Pooles Crossing.				?
Old Falls Pond			L	

Source: Maine Department of Inland Fisheries and Wildlife

Fisheries Habitat

There are nine watercourses or waterbodies in Alfred that were inventoried by the Maine Department of Inland Fisheries and Wildlife. The habitats were rated on their value as fisheries. The locations and the ratings of these habitats are listed in Table 9-2.

Table 9-2. Alfred Fisheries Value Ratings

Location	High Value	Moderate Value	Low Value
Carlisle Brook	High		
Hay Brook			Low
Littlefield Brook			Low
Shaker Brook			Low
Middle Branch River			Low
Trafton Brook			Low
Round Pond		Moderate	
Shaker Pond		Moderate	
Estes Lake		Moderate	

Source: Maine Department of Inland Fisheries and Wildlife

The MDIFW recommends that the first 100 feet of riparian habitat of *high* and *moderate* value fisheries should remain unaltered.

The existing riparian habitat within 250 feet of *high* and *moderate* value fisheries should be protected from development and habitat modifications other than MDIFW approved practices.

The protected buffer for *low* value fisheries habitat should be 100 feet.

Endangered Plant Species

The Maine Natural Heritage Program maintains a database on endangered plants and animals. The data for endangered plants in Alfred are listed in Table 9-3 and the locations are shown on Volume 1, Appendix B, Map 4, Town of Alfred Important Natural Areas. There are no data available for endangered animals in Alfred.

Table 9-3. Endangered Plants in Alfred

Site	Scientific Name	Common Name	MNHP Rank	State Status
6	Baptisia Tinctoria	False Indigo	S1	E
1	Chamaecyparis Thyoides	Atlantic White Cedar	S2	T
*	Clethra Alnifolia	Sweet Pepper Bush	S1	T
5 ¹	Emydoidea Blandingii	Blanding's Turtle	S2	T
*	Lespedeza Hirta	Hairy Bush-Clover	SH	SCPE
*	Lespedeza X Nuttallii	Hybrid	SH	SCPE
*	Lindera Benzoin	Spicebush	S2	SC
2 ¹	Peltandra Virginica	Green Arrow-Arum	S2	SC
3	Peltandra Virginica	Green Arrow-Arum	S2	SC
4	Peltandra Virginica	Green Arrow-Arum	S2	SC
*	Quercus Coccinea	Scarlet Oak	SH	SCPE
4	Southern New England Level Bog	Kettlehole Bog	S3	-
*	Utricularia Resupinata	Small Purple Bladderwort	S1	T
	* Exact location not known			
	¹ site accurate within a mile radius			

(See Appendix A for MNHP and STATE STATUS ranking systems.)

Source: Maine Natural Heritage Data System.

Identified Unique Natural Areas

Alfred does not have any identified "Unique Natural Areas."

Scenic Areas and Scenic Views

The Comprehensive Planning Committee has identified ten areas in Alfred that have scenic importance. The locations are shown in Volume 1, Plan Summary. Table 9-4 lists the locations and descriptions of the scenic areas.

Threats To Identified Critical Natural Resources

Identified Threats

There have been no specific threats to identified critical natural resources in Alfred.

Potential Threats

Growth and development are obvious threats to the town's critical natural resources. The identified sites of potential non-point pollution are threats to wetlands, fisheries, and groundwater. (See Chapter 8, "Water Resources.")

Existing Measures To Protect Critical Natural Resources

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The Resource Protection District and the Shoreland District, with the new state regulations, afford some protection to riparian habitat. There are no ordinances in the Rural Residential District that explicitly protect scenic areas, deer wintering areas, or small wetlands (less than 10 acres).

Table 9-4. Scenic Areas And Scenic Views, Location, Description, Significance

Location Of Scenic Area	Description, Value, Significance
View to Little Ossipee Mt.	Pastoral view of distant hills, fields
View of Shaker Pond And Hill, From Gore Rd.	Tranquil view of pond, fields, hill.
View of Brothers, Shaker Hill. Shaker Pond From Federal Street	Pastoral view of livestock in field, Upper Shaker Pond, Wetlands. Hill and buildings in the background
View of Littlefield River From Route 111 Bridge	Meandering water, vegetation and woodland in background
View of Hay Brook, Fields, Woodland	Pastoral scene, well tended fields, winding stream, forested backdrop
View of Old Arched Bridge Over Middle Branch River From Sanford Road	High value view for photography, historic bridge over rapids
Views From Yeaton Bridge Of Middle Branch River	Picturesque scenes of rapidly moving water flowing into serene pool. Hilly and wooded backdrop.
View above Littlefield Mills Dam	High value for tranquillity, slow winding water, wooded backdrop
View from Littlefield Bridge of Dam and Falls	Historic dam is picturesque with moving water below and tranquil open water above it
View toward Fort Ridge from Gebung and Gore Roads	Pastoral scene with well kept open space, farm ponds, and highest elevation in Alfred in the background with old farm buildings on the ridge.

Source: Comprehensive Planning Committee

Summary:

1. Alfred has 26 identified wetlands, designated as "significant habitat for wildlife." Four are rated "high value," one is "moderate value," ten are of "Low Value," and eleven have an "Undetermined Value."
2. Alfred has two "high value" deer wintering areas.

3. An inventory of fisheries habitat revealed that of nine sites, 1 was "high value," 3 were "moderate value," and 5 were "low value."
4. Alfred has 13 different species of endangered plants.
5. Ten areas in town have been identified as having scenic value.
6. Growth and development threaten Alfred's critical natural resources.
7. Local Zoning Ordinances protect habitat in the Shoreland and Resource Protection Districts.

CHAPTER 10: AGRICULTURAL AND FOREST RESOURCES

Alfred Agricultural Land

Alfred has land areas with prime agricultural soils. These areas consist of individual pockets varying in size from 40 acres to 300 acres. See Volume 1, Appendix B, Map 6, Town of Alfred Wet Soils (Hydric), Steep Slopes and Farm Soils and Map 7, Town Of Alfred Existing Use Map

The highest concentrations of the prime agricultural soils occupy a strip along Alfred's southwest edge and extend eastward from Estes Lake. The strip is 0.8 miles wide, and is 3.5 miles in length.

A second concentration of prime agricultural soils extends northwestward from the south side of Route 111, along the Waterboro town line in a 1 x 5 mile strip. This strip starts on Shaker Hill at the Brothers of Christian Instruction, includes the Brock and Brothers' orchards, and extends northwest to end at John Cook's property on Gore Road. The prime soils are less concentrated here than in the southwestern area. There are dense concentrations around the triangle formed by Gile Road, Gore Road and Federal Street. There are orchards and livestock using the land in and around this triangle.

Most prime agricultural soils are not being used for commercial agriculture. Table 10-1 shows agricultural businesses, principal products, and acreage in commercial use.

Table 10-1. Alfred Commercial Agriculture

Activity	Products	Total Acreage in Commercial Agriculture	
		1990	2000
Orchards	Apples	135	100
Livestock, Animal Husbandry	Beef Cattle, Sheep, Wool	270	150
Haying for Commercial Purposes	Hay & Silage	455	400
Truck Farming	Vegetable & Fruit Produce	50	25

Source: Town Records

Agriculture-Dependent Land Uses and Facilities

Gile's Family Farm, located on Route 202 at Gore Road, is an agriculture-dependent land use. The store and warehouse are used for retail sales of a variety of agricultural products, the principal one being apples and apple products. The store also sells local produce, maple syrup, processed fruits, vegetables, plants, trees, and ornamental products.

A local grower, John Brock, on Shaker Hill Road in Alfred also maintains an orchard.

Hussey's Produce Stand, on Route 202 in the village, sells fruits & vegetables, seedlings, plants, and flowers.

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Downeast Florist, on Sanford Road, Memory Gardens on Route 202 and Old Sheep Meadow Nursery on Federal Street are retail businesses selling flowers, plants and floral products.

Other homeowners operate activities including livestock, haying, and truck gardening.

Commercial Forest Land

Alfred has land areas with prime soils and slope characteristics that are suitable for forestry land uses. See Volume 1, Appendix B, Map 6, Town of Alfred Wet Soils (Hydric), Steep Slopes and Farm Soils.

The prime forestry soils are distributed uniformly throughout the town, except small areas in both the extreme northern and southern ends of town. There is a large area in central Alfred around Brackett and Yeaton Hills where 15-80 degree slopes and prevalent Lyman Rock Outcrop Soils make the land unsuitable for forestry uses.

In 2000, there were 4,748 acres of land in the Tree Growth Tax Law Program, which defines the land use as commercial forestry.

For many years Lavalley Lumber has owned a significant amount of forested land in Alfred. Recently, the Lavalley family divested itself of the retail operation and all of its real estate holdings. Consequently, 1500 acres of Alfred's woodland was sold to a logging company. While much of it will continue to be maintained as a commercial forest, there is an unknown amount of forestland that will be cut-off and sold for residential development. Because of the size of some of these woodland parcels, the resulting residential development could be substantial. Although the town cannot prohibit this growth, it is important to plan for its orderly development, i.e. at a pace that does not have a severe impact on Alfred's municipal services, real estate tax structure and traffic flow patterns nor drastically alter the village environment.

Forestry-Dependent Land Uses and Facilities

Historically, Alfred had a thriving lumber industry. Today there are no commercial sawmills or retail lumber businesses.

John Sylvester, located on Waterboro Road opposite the Gile's Family Farm, operates a logging and firewood business. His facility is used for log storage, and for the cutting, splitting, and sale of firewood. Arthur Hussey also operates a firewood business on Route 111.

Maine State Farm and Open Space Law Taxation Program

The 2000 State Valuation, based upon the Town Assessment of Land and Buildings for 1998, stated that there were 12 parcels, with a total of 662 "Classified Farm Land Acres." The municipal assessment valuation of the land was \$491,362, and the State Valuation of the land was \$94,500.

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Per the 2000 State Valuation, there was no land in Alfred identified in the "Classified Open Space" category.

Maine State Tree Growth Tax Law Program

The 2000 State Valuation, based upon the 1998 Town Assessment of Land and Buildings, stated that there were 70 parcels with a total of 4748 "Classified Tree Growth Acres." The municipal assessment of the land was \$2,292,384 and the State Valuation of the land was \$475,616.

Threats To Farmland and Forests

Continued growth and development obviously pose threats to Alfred's agricultural resources, whether these lands are in actual agricultural land use or they are undeveloped prime agricultural land. Also, growth and development threaten Alfred's undeveloped forest and the Rural Residential District.

Existing Measures To Protect Agricultural and Forest Resources

The Tree Growth Tax Law Program is used for 4,748 acres - 26% of the town's total acreage. The program effectively protects these forested acres as long as these acres stay in the Tree Growth Program.

The Massabesic Experimental Forest, operated by the U.S. Forest Service, is 1,754 acres in size. This is approximately 10% of Alfred's total acreage. Federal management protects this forest resource.

The Farm Land Tax Law Program is being used for 662 acres, nearly 4% of the town's total acreage.

No land is in the Open Space Tax Law Program.

Alfred has a cluster-housing ordinance that helps to preserve a portion of the prime agricultural and forestry land included in a development.

Summary

1. There are concentrations of soils suitable for agriculture in southeastern Alfred and in a 1x5 mile strip from the Brothers, along the northeast town line with Alfred up through John Cook's property.
2. There are two commercial orchard businesses in Alfred. There are some smaller businesses in livestock, haying operations, and truck gardening.
3. There are two businesses that are dependent upon forestry resources.
4. Maine State Farm Land Tax Law acres in 1998 were nearly 4% of the town's total acres.

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5. In 1998, there were no acres identified in the State Open Space Tax Law Program.
6. There were 4,748 acres in the Tree Growth Tax Law Program. This accounted for better than 26% of Alfred's total acreage.
7. Growth and development are potential threats to Alfred's agriculture and forest resources.
8. The Massabesic Experimental Forest is a forest resource protected by federal management and regulations. It comprises approximately 10% of Alfred's total acreage.
9. State Tax Law programs offer protection to agriculture and forest resources.

CHAPTER 11: HISTORIC AND ARCHAEOLOGICAL RESOURCES

Historic and archaeological resources are a part of a community's heritage. They contribute to each town's unique character. The purpose of this section is to inventory these resources to help formulate goals and policies for protecting the town's heritage.

Alfred's History: Events, Development and Character

Alfred's history from its first settlement in 1864 to the present is summarized in Chapter 2, "Community Profile," of Volume 1, Plan Summary. There is a more complete history in Chapter 1, "Introduction," of this document, Volume 2, Data Inventory and Analysis.

Historic Resources

Historic resources include historic buildings, structures and objects above the ground. Besides the Alfred Historic District, described below, the Alfred Historical Committee has identified an additional 45 buildings outside the District as being of historical importance. Many, possibly all, of these buildings may be eligible for nomination to The National Register of Historic Places. Further study will be needed for sufficient documentation.

The National Register Of Historic Places

The National Register of Historic Places, administered by the National Park Service, is a listing of buildings, districts, structures, objects, and sites deemed worthy of preservation for their historical, cultural, or archaeological importance.

There are some benefits in having a site listed in the National Register of Historic Places: the prestige of possessing the property, buildings may qualify for a 25% investment tax credit, and buildings on the register are also given a limited amount of protection from alteration or demolition resulting from a federal project. To qualify for the tax credit the buildings must be income producing, depreciable, and "certified" historic structures.

The Alfred Historic District

On April 28, 1983, the Alfred Historic District was entered upon the National Register of Historic Places. The District is in the center of the village, located southwest to northeast on Route 202 and 4 (Oak Street) and along Kennebunk Road and Saco Road. See Volume 1, Appendix B, Map 8, Alfred Historic District. The village and buildings within the district have changed little in the last one
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hundred years. See Volume 1, Appendix B, Map 9, "Alfred Village, 1872." The National Historic Register lists 48 homes in the district. Numbers on Map 8 identifies these homes. The key to the map, with a description of the buildings, is in Volume 2, Appendix D.

"Statement Of Significance," Historic District, (Excerpted)

The following seven paragraphs are quoted from the application for inclusion of the Historic District in the National Register of Historic Places. (Appendix D) The numbers in parenthesis following the names of the buildings refer to the locations of the buildings on Map 8.

The historic district is located in the center of Alfred Village, which was incorporated February 4, 1794. The Conant and Knight families settled here in the 1760's, and they and their descendants built many of the homes and shops around the village green. John Knight built a barn and ell (#36), where he entertained early travelers, earning himself the nickname "Barn Knight." During the revolutionary period, meetings to examine articles on the new form of government took place in Knight's Barn. Here, early church meetings were held, which were apparently somewhat disrupted by the 'Merry Dancers', a group of early celebrants whose activities seem to have shocked the more staid inhabitants of the community. Across the street from the barn is the oldest residential home in the village center, now called 'The Beehive' (#26).

It is actually three buildings joined together with construction evolving over three centuries. John Knight began the first and oldest portion, the middle, c. 1770, in the colonial style. Although this is the most altered portion of the Beehive, many original features remain, such as the raised paneling in the front room. In 1801, Joshua Conant, an early Alfred entrepreneur, purchased the 100-acre Knight holdings in the village center which he sold, one month later, to Dr. Abiel Hall, Sr. Dr. Hall lived in the Beehive, adding the north section in the Federal Style. Finally, the third and last section was built, facing south, c. 1915, by Alonzo Roberts, in the homestead style. Once, the Beehive housed multiple families, hence the name.

Alfred's best-known citizen, John Holmes, arrived in 1799. He was a young lawyer who became an expert in real estate law. Titles to Alfred land were in an unsettled state, with squatters making improvements on land they did not own. Holmes was employed to secure good title in these cases. An example is the tract of land in Alfred Village for the jail. Thomas Hutchinson, of Devon, England, deeded two acres to York County for the jail, through John Holmes. The site of the original jail (#22) is located next to John Holmes dwelling (#24). Called the 'Bow and Arrow House', the Federal house of John Holmes was originally a Cape which he raised to its present profile. Known for his gregariousness, Holmes designed with a flair reminiscent of the 'Southern Hospitality' he must have experienced in Washington where he was one of Maine's first two senators. Notable are the

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two story columns and the roof balustrade, with bows and arrows pointing downward, a sign of friendliness toward the Indians, as well as tall Palladian windows centering the second story.

John Holmes provided the impetus for locating the York County Court House here. Presence of the Court House significantly affected the character and ensured the growth of the village center. Completed in 1807, fireproof wings were added in 1854. Fire destroyed the original center section, which was rebuilt in 1933. Berry Tavern (#41), facing the Alfred Green, provided meals and lodging during court sessions, in the mid 19th century. The tavern was originally built for Daniel Holmes. It was here that Holmes developed one of the several local early 19th century potteries producing the much admired and collected Alfred redware. The home retains original 12/12 and 12/8 windows, Indian shutters, and stands almost touching the Porter Lambert house (#42). Both have the low profile hip roof and high double end chimneys typical of a large and stately Federal home.

Stylistic change provides visible evidence of changes in attitude and growth spurts experienced in the village. During the pivotal year of 1829, Dr. Abiel Hall, Sr. died, and his land holdings in the village were divided. After this time, a profusion of Greek Revival homes, storefronts, and churches suggest the labor of local carpenters constructing on a less opulent scale, with demands of living and intended use, forcing adaptations in design to accommodate a more popular perspective.

Construction after 1860 assumes the Victorian sensibility reflected in an increased sense of scale and proportion. Notable is the Victorian house built by J.N. Stinson (#11) next to the Town Hall (#12) which was constructed in the same year in the Greek Revival Style. Both were built on sites of buildings burned in 1860. It is easy to understand this allure of the Italianate style in this country village. Porches and increased window size achieve an integration of interior and exterior space. Victorian infatuation with Italian architectural detail such as corner quoins, bay windows, rows of roof-line brackets, and ornamental cupola provide a setting for living and entertaining enhanced to elegant sophistication. Many homes in the village reveal the changing fashion. Italianate porches abound on earlier buildings (Daniel Goodenow House (#5), Abiel Hall House (#35), etc. The corner quoins and other embellishments on the distinctive 'Brick Ends' house (#44) bespeak of neighborly influence from across the street, coupled with an effervescent individualistic application of the current stylistic trend.

The village continues to maintain its 19th century flavor despite the area's rapid growth. Although there is a diversity of architectural style within the village, there is also a sense of continuity and pride in the past.

Other Historic Buildings

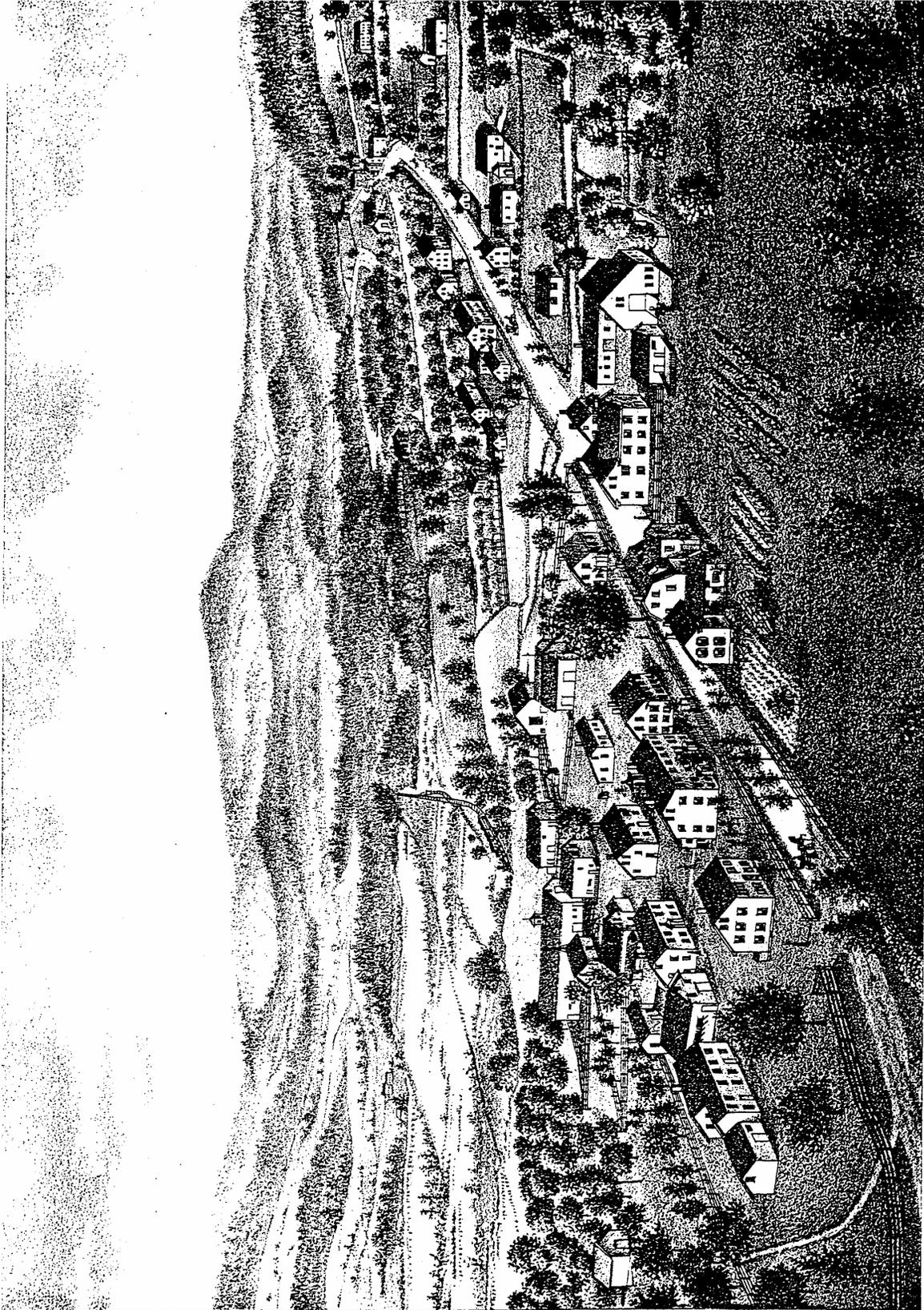
As noted above, there are other historic homes in Alfred that are outside the Historic District. See Appendix D for a list of the buildings.

Volume 1, Appendix B, Map 9, Town of Alfred, 1872, shows the original homes dispersed evenly along the town roads. Housing density was greatest in Alfred Village, North Alfred, and Alfred Mills (Littlefield Mills). The 45 homes identified by the Historical Committee may be found on the map, but there are no map key numbers to their locations.

By 1880, the Shakers had created a large village on what is now named Shaker Hill. Once, the Shakers had more than fifty buildings. Today, the Brothers of Christian Instruction own the property. Eight of the old buildings survive in good condition. These buildings are also possible candidates for nomination to the National Register of Historic Places. Plate 11-1 shows a sketch drawn by Phares F. Goist, of Biddeford in 1880. It shows forty-four buildings. Plate 11-2 lists building descriptions and gives key numbers to the sketch. The plates were reproduced by courtesy of Harland H. Eastman, who published the sketches in his 1986 book, *Alfred, Maine. The Shakers and The Village*.

The Alfred Shaker Historic District was listed in the National Register on April 11, 2001.

The Lord-Dane house on Federal Street was listed in the National Register on December 17, 1992.



SHAKER VILLAGE, ALFRED, MAINE.

This view was drawn by Phares F. Goist of Biddeford who visited the village on January 29, 1880. A key to the buildings appears on the opposite page. These key numbers are also included in the captions in parentheses to assist the reader in locating the buildings on the above plan.

Church Family

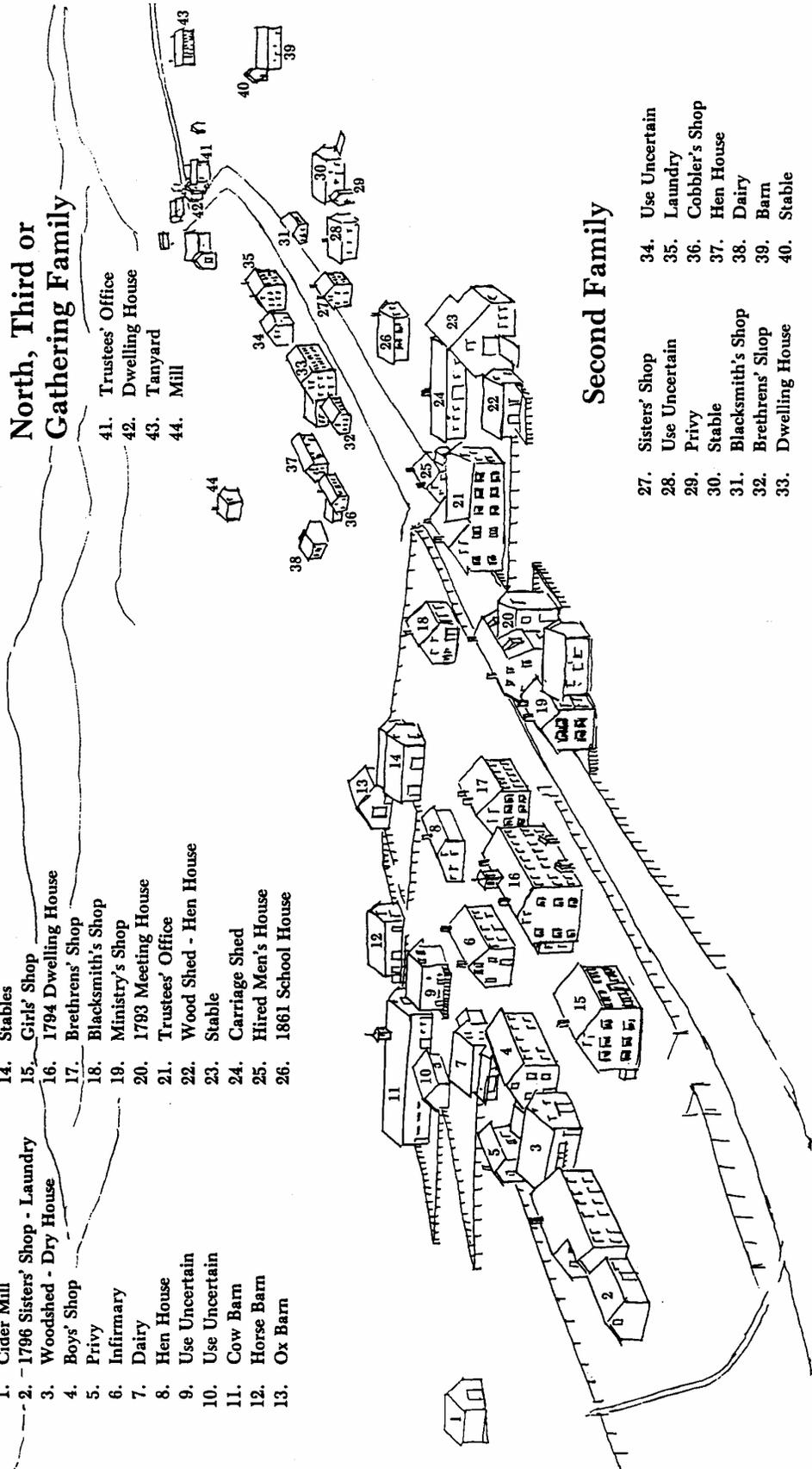
- 1. Cider Mill
- 2. 1796 Sisters' Shop - Laundry
- 3. Woodshed - Dry House
- 4. Boys' Shop
- 5. Privy
- 6. Infirmary
- 7. Dairy
- 8. Hen House
- 9. Use Uncertain
- 10. Use Uncertain
- 11. Cow Barn
- 12. Horse Barn
- 13. Ox Barn
- 14. Stables
- 15. Girls' Shop
- 16. 1794 Dwelling House
- 17. Brethrens' Shop
- 18. Blacksmith's Shop
- 19. Ministry's Shop
- 20. 1793 Meeting House
- 21. Trustees' Office
- 22. Wood Shed - Hen House
- 23. Stable
- 24. Carriage Shed
- 25. Hired Men's House
- 26. 1861 School House

North, Third or Gathering Family

- 41. Trustees' Office
- 42. Dwelling House
- 43. Tanyard
- 44. Mill

Second Family

- 27. Sisters' Shop
- 28. Use Uncertain
- 29. Privy
- 30. Stable
- 31. Blacksmith's Shop
- 32. Brethrens' Shop
- 33. Dwelling House
- 34. Use Uncertain
- 35. Laundry
- 36. Cobbler's Shop
- 37. Hen House
- 38. Dairy
- 39. Barn
- 40. Stable



Alfred Cemeteries

The cemeteries reflect Alfred's history and are part of the town's heritage. They were extensively researched and mapped by John Cook who identified 53 in the town. The locations are in Appendix D.

Prehistoric and Historic Archaeological Sites In Alfred

Archaeological resources include sites with evidence of the prior presence of human beings: including structures, artifacts, terrain features, graphics or remains of plants or animals associated with human habitation.

By definition, archaeological resources are those below ground. There are two types of archaeological resources: prehistoric and historic. Prehistoric archaeological places are those associated with Indian archaeology, before the 1600s and European settlement. Historic archaeological places are those associated with the earliest European settlers.

The Maine Historic Preservation Commission has identified no prehistoric archaeological sites in Alfred. It has identified three historic archaeological sites:

ME 006-01: Holmes Pottery Site (ca. 1811-1815)

ME 006-02: Lambert Pottery Site (ca. 1817 - ca 1834)

ME 006-03: Webber Pottery Site (ca.1820 - ca. 1890)

In Alfred, no professional prehistoric or historic archaeological surveys have been conducted, and no archaeological data exist for the above sites. Future fieldwork could focus on these sites and ones relating to the early settlement of the town.

Alfred historical district is an archeological sensitive area; therefore every proposed change or modification needs to be monitored.

The Alfred Historical Committee has furnished the list of known sites and possible sites listed in map and lot order included in Appendix D.

The Alfred Quarry

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The Alfred Quarry, formerly called the Bennett Quarry is a historic site of local importance. It dates to the end of the nineteenth century. It is on the south side of Route 202 and is approximately 1,000 feet west of Bennett Road.

Granite from the quarry was used to build the Parsons Memorial Library in 1903. Some was also shipped to Washington, D.C. for the construction of government buildings.

Today, the quarry is owned by the Genest Concrete Company and is no longer in use. The company allowed it to be opened temporarily for obtaining granite used for the War Memorial on the Alfred Town Green. The memorial was dedicated in 1986.

Threats To Historic and Archaeological Resources

Growth and development, increasing traffic volume, and the lack of specific ordinances to protect the Historic District threaten Alfred's historic resources.

Existing Measures To Protect Historic Resources

Alfred zoning ordinances give some protection to the Village and Center Village District Historic Resources.

On June 24, 1987 the townspeople rejected a design review ordinance that would have regulated building and improvements in the Historic District.

Summary

1. The Alfred Historic District contains 48 homes and buildings that were included in the National Register of Historic Places on April 28, 1983.
2. There are 45 homes in Alfred outside the Historic District that, with further research might qualify for nomination the National Register of Historic Places.
3. There are 53 cemeteries that were identified by John Cook.
4. Alfred has no identified prehistoric archaeological places.
5. The Maine Historic Preservation Commission has identified three historic archaeological places: all pottery sites.
6. Growth and development, increasing traffic volume, and a lack of specific ordinances to protect the integrity of the Historic District, threaten the town's historic resources.

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CHAPTER 12: LAND USE

An inventory of current land use helps identify past trends, areas of incompatible land uses, and areas where future growth is most likely to occur. The inventory provides information on existing land use ordinances and is a basis for the goals and policies that will govern future land use ordinances.

This section includes the land use data necessary for developing a land use plan that will promote orderly growth while preserving rural character. The information is useful in planning for the efficient use of public facilities and services and ensuring the compatibility of adjacent land uses.

Alfred covers an area of 18,000 acres (29 square miles). The town is slightly more than 13 miles long, from its southeastern tip in the coastal plain to the northwest tip where the inland hilly section begins. It is 4 miles wide in the middle.

The topography, terrain features, elevations, and geological characteristics are discussed in Chapter 1, "Physical Setting." Hydrology, aquifers and wetlands are discussed in Chapter 8, "Water Resources" and Chapter 9 "Critical Natural Resources." Soils are covered in Chapter 10 "Agricultural and Forest Resources."

The primary type of land use in Alfred is single-family housing. Homes are distributed evenly over the town; denser concentrations occur in the village, Littlefield Mills, and several scattered subdivisions. Commercial uses are located almost exclusively along arterial highways: Routes 4, 4A, 111 and 202.

The undeveloped portion of the town is forest, open space, and agricultural acreage. The land supports several orchards and other agricultural and forestry uses. It also has open spaces and the scenic vistas that contribute to Alfred's rural character. The scenic areas are discussed in Chapter 9, "Critical Natural Resources."

Historical Perspective

According to *The History of Alfred*, by Dr. Usher Parsons, published in 1876, the existing Indian trails in the mid-18th century provided the early framework for the town's road system. The waterways influenced where the earliest settlements occurred. The lumber industry was the earliest commercial activity and it continued into the 20th century. Many saw mills were built along the rivers and streams. The clearing of the land made it available for settlement and farming. The Shaker Community owned 1,000 acres that, for 150 years, were used for agriculture.

Farming continued to be an important land use throughout most of Alfred's history. Over the past twenty years, commercial agriculture, including apple orchards, has gradually declined in importance.

Alfred's designation as York County Seat in 1806 strongly influenced land use patterns in the village area. During the 19th century, lawyers and professionals built homes in the village, where they could live near the seat of county government. This stimulated commerce and land uses needed for providing goods and services to the professional community.

The railroad came to Alfred in 1864. This influenced the pattern of residential land use in the village. The pattern has changed very little over the last 150 years, and is the basis for the Alfred Historic District.

The growth of the past two decades has caused an increase in single-family residential land uses. The new homes are distributed along most of the town's roads. Acreage suitable for agricultural land uses have been subdivided for these single-family homes. During the past decade, increasing numbers of homeowners have been applying for home-occupation conditional use permits.

The first Zoning Ordinance was introduced in 1973. Later, the 1983 Zoning Ordinance and its subsequent revisions provided a basis for maintaining the goals and policies of the 1983 Comprehensive Plan. The ordinance has been revised and amended several times. The last major revision was the 1999 Alfred Zoning Ordinance. Table 12-1 shows the seven zoning districts defined in the 1999 ordinance.

Table 12-1. Alfred Zoning Districts:

1. Center Village District
2. Village District
3. Commercial District
4. Rural Residential District
5. Round Pond Watershed Protection District
6. Resource Protection District
7. Shoreland District

Existing Land Uses

Table 12-2 shows the types of land use in 2002 and the number of acres used for each category. According to the 1990 Bureau of Taxation and the State Data Almanac, the total acres in Alfred are 18,600. As better mapping and data gathering methods have improved, the total acreage is closer to 18,100 acres.

Table 12-2. Land Use by Acreage and by Number of Lots, with Percentage Distribution

Type of Land Use	1990 Number of Acres	2002 Number of Acres	1990 % of Total Acres	2002 % of Total Acres	1990 Number of Parcels	2002 Number of Parcels	1990 % of Total Parcels	2002 % of Total Parcels
Residential	6,013.81	6,215.38	32.75%	34.40%	763	909	60.75%	69.55%
Commercial	636.52	633.87	3.47%	3.51%	58	50	4.62%	3.83%
Institutional	32.02	137.581	0.17%	0.76%	24	27	1.91%	2.07%
Parks/Recreation	10.79	8.72	0.06%	0.05%	3	3	0.24%	0.23%
Extractive	389.6	336.285	2.12%	1.86%	5	2	0.40%	0.15%
Undeveloped	10,492.23	9,930.36	57.14%	54.96%	403	316	32.09%	24.18%
State & Town Roads*	292	310.91	1.59%	1.72%	-	-	-	-
Surface Waters*	496.6	496.6	2.70%	2.75%	-	-	-	-
Totals:*	18,363.57	18,069.70			1,256	1,307		

*Estimates From Town Records

NOTE: Calculated acreage for each type of land use is based on residential use. For example, there were 18 properties (1,181.83 acres) that were primarily residential but most of the land was listed in tree growth; however, the entire acreage was included in the residential total. Table 12-3 shows 2002 land uses in Alfred by percentage of the total 2002 Town Valuation.

Table 12-3. Distribution of Land Uses, By Percentage of State Valuation

Type Of Land Use	% Of State Valuation	
	1990	2002
Residential	67.10%	76.75%
Undeveloped Land	21.28%	7.03%
Commercial	7.01%	7.40%
Electric Utilities	3.02%	3.03%
Tree Growth Tax Law	1.51%	4.52%
Farm Land, Open Space Tax Law	1.10%	1.28%

Source: Town Tax Records

A review of the land use database that was derived from a 2002 analysis of town property records revealed that there were 1,307 parcels.

Residential parcels increased by 146 or 19%. The parcels of 10 acres or more decreased from 123 to 118, which was a 4% decline. The parcels of land supporting mobile homes increased from 279 to 293 resulting in 5% increase. There was an increase from 33% to 34.42% of Alfred's total acreage used for residences and a decrease from 57% to 54.99% of the undeveloped land.

A comparison of Table 12-2 (Land Use by Acres and Number of Lots) with Table 12-3 (Distribution of Land Uses by Percentage of State Valuation), shows that residential land use accounts for one third of the town's acreage but three quarters of the town's total State Valuation. Undeveloped land accounts for over half the town's acreage, but has now fallen from one fifth to less than one tenth of the town's valuation. Commercial land use has remained the same 1:2 ratio of acreage to valuation as residential land use.

Trends In Residential Land Use

Between 1980 and 1989, the numbers of residential building permits issued in Alfred ranged from a high of 45 in 1981 to a low in 1989. The years in between remained fairly constant reflecting the recession in the real estate market during those years. Between 1996 and 2001 mobile homes became the most popular type of housing. Mobile home permits either exceeded standard/modular home building permits or matched standard/modular home permits issued in any given year.

Table 12-4 shows the twenty one-year trends in new residential building.

Table 12-4. Historical Building Permits

Year	Number of Permits	Year	Number of Permits
1980	13	1991	7
1981	45	1992	10
1982	25	1993	8
1983	21	1994	10
1984	27	1995	16
1985	25	1996	23
1986	24	1997	36
1987	38	1998	39
1988	18	1999	36
1989	11	2000	38
1990	7	2001	46

Source: Town Records

Tax-Exempt Land Uses

As the County Seat, Alfred has a relatively large percentage of land uses that are tax exempt. There was an increase from 11.4% to 11.8% of the town's total area. Most of this tax-exempt land (82.5%) is the federally owned Massabesic Experimental Forest. When the Brothers of Christian Instruction property became taxable, 270 acres of farmland was reclassified from the tax-exempt taxable property. This loss was made up by increases in the town's acreage and county acreage. The assessed value of this tax-exempt land and buildings is \$15,558,810.00, which is 12.1% of the town's

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total assessed valuation. With construction of the new county correctional facility in 2001, York County government became the second largest tax-exempt entity. Table 12-5 shows tax-exempt acreage by the type of land use.

Table 12-5. Land Uses By Tax Exempt Status

Category Of Land Use	1989 Acres	2002 Acres	Change Acres
U.S. Forestry Service	1,753.75	1,753.75	0.00
State of Maine	8.13	13.13	5.00
Town of Alfred	13.16	85.811	72.65
Town Acquired Property	38.25	105.31	67.06
School (Sad #57)	27	25	-2.00
Churches	5.36	7.61	2.25
Brothers of Christian Instruction	270	0	-270.00
York County	11.48	124.38	112.90
Alfred Water District	0	28.11	28.11
Miscellaneous Organizations	0.25	0.25	0.00
Total:	2,126.38	2,143.35	16.97

Source: Town Records

Summary

1. The predominant type of land use in Alfred is single family home.
2. In 1989, undeveloped land accounted for 10,492 acres - 57% of the town's total land area whereas in 2002 it decreased to 9,930.36 - 54.99% a loss of 2.01%
3. The land use patterns in Alfred 150 years ago are very similar to the land use patterns in 1990, especially in the Center Village District.
4. There was a net increase of 17 acres of tax-exempt land in Alfred. This raises the total tax-exempt acreage to 11.8% of the town's total area.
5. The total commercial/industrial land use in 2002 was 3.5% (633.87 acres) of Alfred's total area and it has remained fairly constant.
6. Most of Alfred's commercial land uses are located along Routes 4, 111 and 202.

CHAPTER 13: FISCAL CAPACITY

The fiscal capacity of a community is a key factor in its ability to accommodate growth while providing the facilities and services needed by the community. This section examines the current financial condition of Alfred and its ability to meet new growth.

Valuation

Both the Town and the State calculate a community's property valuation annually. By State law, a revaluation needs to be conducted when a community's valuation drops below 70% of the State's valuation, which is typically adjusted to reflect market value. Due to a lack of in-house capabilities for market analyses, annual adjustments are not made on a town basis to property assessments to reflect true market values. As indicated in Table 13-1, Alfred's valuation has consistently been higher than that of the State's since 1993, the year Alfred last conducted a revaluation.

Table 13-1. State Valuation vs. Town Valuation

Year	State Valuation	Town Valuation	70% of State Valuation
1991	97,850,000	73,993,564	68,495,000
1992	104,100,000	74,543,991	72,870,000
1993	103,650,000	107,458,426	72,555,000
1994	97,150,000	108,113,418	68,005,000
1995	95,950,000	109,718,206	67,165,000
1996	97,600,000	111,824,038	68,320,000
1997	98,350,000	114,686,943	68,845,000
1998	102,050,000	113,872,060	71,435,000
1999	99,450,000	117,358,562	69,615,000
2000	107,700,000	121,290,376	75,390,000
2001	112,000,000	128,193,398	78,400,000
Change	+14%	+73%	

Source: Maine State Bureau of Taxation and Town of Alfred records

Tax Rate

At the beginning of the decade, Alfred's tax rate was 16.50 per thousand. Eleven years later, it had dropped to 12.50. Leading to this drop was the revaluation in 1993, which resulted in an assessed valuation increase of 44%. From 1993 to 2001, the assessed valuation rose to over \$128 million, an 11% increase. Increased construction that Alfred shares with the rest of York County accounted for the majority of the increase. The natural increase of the assessed valuation during the last half of the decade helped hold as well as lower the annual tax rate. Table 13-2 shows the history of Alfred's assessed valuation and the tax rate from 1990 through 2001.

Table 13-2. Historic Tax Rate 1990-2001

Year	Valuation	% Change	Tax Rate	% Change
1990	71,535,187		16.50	
1991	73,993,564	3.4%	16.50	0.0%
1992	74,543,991	0.7%	16.50	0.0%
1993	107,458,426	44.2%	12.40	-24.8%
1994	108,113,418	0.6%	12.65	2.0%
1995	109,718,206	1.5%	13.50	6.7%
1996	111,824,038	1.9%	13.50	0.0%
1997	114,686,943	2.6%	13.50	0.0%
1998	113,872,060	-0.7%	13.50	0.0%
1999	117,358,562	3.1%	13.00	-3.7%
2000	121,290,376	3.4%	12.50	-3.8%
2001	128,193,398	5.7%	12.50	0.0%

Source: Town of Alfred records

Equalized Tax Rate

Table 13-3. Equalized Tax Rate Trends, 1990-2000

Tax Commitment Year	Tax Commitment	Equalized Tax Rate	Population	Equalized Tax Rate/Capita
1990	1,180,331	15.95	2,238	.00713
1991	1,220,894	16.38	2,245	.00730
1992	1,229,976	11.45	2,258	.00507
1993	1,332,484	12.32	2,262	.00545
1994	1,367,635	12.46	2,273	.00548
1995	1,481,196	13.25	2,295	.00577
1996	1,509,625	13.16	2,319	.00568
1997	1,548,274	13.60	2,350	.00579
1998	1,537,273	13.10	2,387	.00549
1999	1,525,661	12.58	2,428	.00518
2000	1,516,130	11.83	2,497	.00474

Source: Town of Alfred records, US Census

Expenditures

Table 13-4 shows the town's expenditures, by category, from 1991 to 2000. To illustrate the data in terms of constant dollars, the totals are adjusted for inflation using 2000 dollars.

Table 13-4. Municipal Government Expenditures

	1991	1992	1993	1994	1995
General Operations	188,365	168,130	172,225	185,879	210,149
Public Safety	65,751	75,003	81,198	82,226	99,606
Fire Trucks				62,374	99,877
Ambulance					
Public Safety Building				198,742	
Public Works	240,206	225,771	246,638	233,965	289,374
Health & Sanitation	105,294	106,543	115,377	126,282	132,462
Brush Dump Closure				123,625	1,375
Welfare	48,910	33,969	22,812	9,559	10,987
Community Service	12,600	9,733	9,733	9,708	11,732
Library	9,000	9,000	12,000	13,383	19,081
Parks & Recreation	12,089	8,186	7,613	28,179	9,605
Schools	830,779	850,945	875,352	953,611	981,701
County Taxes	33,462	35,306	42,356	37,773	38,106
Debts & Interest	25,695	1,896	1,854	15,000	73,445
Other	8,188	68,006	93,288	59,337	45,292
Total	1,580,339	1,592,488	1,680,446	2,139,643	2,022,792
Adjusted to 2000 dollars	2,008,103	1,941,977	1,989,552	2,459,432	2,266,196
	1996	1997	1998	1999	2000
General Operations	213,571	236,184	250,763	266,610	274,461
Public Safety	75,892	80,402	97,404	94,261	110,019
Fire Trucks					
Ambulance			95,600		
Public Safety Building					
Public Works	311,922	307,326	310,612	332,540	352,134
Health & Sanitation	180,004	132,723	113,841	125,013	138,799
Brush Dump Closure					
Welfare	8,712	12,130	11,677	14,820	17,317
Community Service	12,920	14,270	13,500	13,200	13,000
Library	19,814	25,955	24,615	31,953	33,544
Parks & Recreation	13,893	20,811	22,656	25,704	37,983
Schools	1,007,322	1,073,627	1,131,064	1,123,620	1,088,343
County Taxes	42,268	42,755	48,110	45,775	46,892
Debts & Interest	77,826	122,076	43,756	64,336	24,640
Other	34,193		22,698	1,331	291,038
Total	1,998,337	2,068,259	2,186,296	2,139,163	2,428,170
Adjusted to 2000 dollars	2,184,193	2,194,775	2,281,251	2,196,920	2,428,170

Source: Town Annual Reports, Town Audits

Table 13-5 shows trends in expenditures from 1991 to 2000 ranked from the category with the greatest percentage increase to the one with the least. The values for 1991 have been adjusted to 2000 dollars. The three categories showing the greatest percentage increase in expenditures were the categories Other; Library; and Parks & Recreation. The three lowest categories, whose expenditures actually decreased, were Welfare; Debts & Interest; and Community Service.

Table 13-5. Percent Change In Expenditures, by Category, 1991-2000 Adjusted to 2000 Dollars

Category	1991	2000	% Change
Other	10,404	291,038	2697.4%
Library	11,436	33,544	193.3%
Parks & Recreation	15,361	37,983	147.3%
Public Safety	83,548	110,019	31.7%
Public Works	305,225	352,134	15.4%
General Operations	239,351	274,461	14.7%
County Taxes	42,519	46,892	10.3%
Health & Sanitation	133,795	138,799	3.7%
Schools	1,055,653	1,088,343	3.1%
Community Service	16,011	13,000	-18.8%
Debts & Interest	32,650	24,640	-24.5%
Welfare	62,149	17,317	-72.1%

REVENUES

Table 13-6 illustrates the distribution of revenue from various revenue sources in 2000. Alfred receives revenue primarily from real estate and personal property taxes assessed to property owners, governmental funding, and excise taxes paid by owners of motor vehicles.

Table 13-6. Municipal Revenue Sources, 2000

Item	Actual Revenues*	% Of Total
Property Taxes	1,554,001	65.5%
Excise Taxes	347,270	14.6%
Town Fees/Miscellaneous	57,575	2.4%
Governmental Sources	309,744	13.0%
Interest Earned	103,426	4.4%
Other Sources	1,723	0.1%
Total	2,373,739	100%

*Does not include Tax Anticipation Loan or Performance Bond

Source: Town Treasurer

As indicated in Table 13-7, the total adjusted annual revenues from all sources, not including Tax Anticipation loans (TAN), increased from \$1,842,438 in 1991 to \$2,373,739 in 2000 – a 29% increase. This is an average annual increase of 3.2%.

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Table 13-7. Municipal Revenue Trends 1990-2000

	1991	1992	1993	1994	1995
Property	1,193,230	1,258,991	1,341,842	1,347,247	1,494,542
Excise	160,621	156,926	163,672	199,537	207,040
Town Fees/Misc.	7,470	13,834	26,506	42,656	45,410
Intergovernmental	217,925	207,842	182,675	185,357	178,888
Interest Earned	82,532	23,077	25,737	38,773	47,605
Other Sources	30,660	35,435	63,296	36,268	37,744
Grants	150,000				
TOTAL without TAN	1,842,438	1,696,105	1,803,728	1,849,838	2,011,229
Tax Anticipation Loans	500,000	200,000	200,000		
Property	1,479,905	1,569,944	1,570,398	1,569,535	1,554,001
Excise	221,368	249,228	261,048	293,933	347,270
Town Fees/Misc	50,357	37,441	55,599	50,492	57,575
InterGovernmental	217,941	304,454	301,033	306,830	309,744
Interest Earned	42,762	47,776	54,408	49,907	103,426
Other Sources	6,698		3,967	1,380	1,723
Grants					
TOTAL without TAN	2,019,031	2,208,843	2,246,453	2,272,077	2,373,739
Tax Anticipation Loans					

Source: Town Annual Reports, Town Audits

MUNICIPAL DEBT

Bills for property taxes are sent to town residents once a year. To pay for town services, tax anticipation loans have been necessary. The loan proceeds are placed in an interest bearing cash management account. In 1991, 1992, and 1993, Alfred took out Tax Anticipation Loans. In 1991, the loan amount was \$500,000. In 1992 and 1993, the loan amounts were \$200,000 each year.

In 2000, the debt and interest expense was \$24,640. In 1991, the debt and interest expense was \$25,695. When the 1991 expenditure is adjusted for inflation and expressed in terms of 2000 dollars, the cost to the town of debt and interest decreased by 24%.

Table 13-8 indicates the current outstanding balance of debt owed.

Table 13-8. Bonds and Loans – 2001

	Maturity Date	Balance as of 12/31/01
2000 Fire Truck Bond	December 11, 2003	66,666.00
1998 Ambulance Bond	2001	0.00

Source: 2001 Annual Report, Treasurer's Report

Alfred has a Standard & Poors Bond Rating of A- as of 2002.

The Maine Municipal Bond Bank uses a number of indicators to evaluate a community's credit. These are informal guidelines, not policy.

- A community's outstanding principal should not exceed 15% of the State's valuation for that community. In 2001, Alfred's State Valuation of taxable land, buildings and personal property was \$112 million. At 15%, Alfred's debt limit in 2001 would be \$16.8 million.
- The per capita debt of a community should not exceed \$400 - \$500. The US Census in 2000 counted 2,497 people in Alfred. With only \$66,666 of outstanding principle, the per capita debt is less than \$27.
- The town should be experiencing growth in assessed valuation, which Alfred has.

Capital Improvement Program

Alfred has a capital investment plan, see Volume 3.

Summary

1. Alfred's Tax Rate has remained fairly stable over the past ten years. In 1993, it dropped 24% as the result of the revaluation.
2. The last town valuation was in 1993. In 1993, a "Factor Year," assessed valuation increased by 44.2%.
3. The town does not have an ordinance limiting the annual percentage increase in the tax rate.
4. The town does have a Capital Investment Plan. There are reserve funds for capital improvements.
5. The town does not have in-house capabilities to do market analyses to determine the current market value at which property is assessed. Annual adjustments are not made to keep assessed values current with market values.

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6. The percentage increase in expenditures between 1990 through 2000 was greatest for Other, Library and Parks & Recreation.
7. From 1990 to 2000, adjusted expenditures increased 21% while adjusted revenues increased by 29%.
8. In 2001, residential property accounted for 73% of Alfred's State Valuation. The amount of residential property, as a percentage of the State Valuation, has increased annually from 14% in 1991 to 73% in 2001.
9. Alfred has 2,143 acres of Tax Exempt Land, which is 11.7% of the town's 18,350 acres. The assessed value of this tax-exempt land and buildings is \$15,558,810.00, which is 12.1% of the town's total assessed valuation. Completion of the new county facilities will further increase this percentage. (See Chapter 12, "Land Use.")
10. In 2000, Alfred had no Tax Anticipation Notes. (A "TAN" is a short-term note to pay for town operations while awaiting payment of property taxes.) TANs have not been used since the early 1990's.
11. Alfred has a A- bond rating.
12. Alfred bills for property taxes once a year and offers a Tax Club to tax payers who wish to pay taxes monthly.

CHAPTER 14: THE SUMMARY AND ANALYSIS

This chapter summarizes the major findings of the inventory and analysis volume of the plan. It includes background information on Alfred's population, economy, housing, land use and development, public facilities and services, recreation, roads and transportation, fiscal capacity, and natural and cultural resources -- as well as an assessment of related issues and the planning implications of this information.

Population

Summary of Inventory and Analysis

1. Alfred's population has doubled in the last three decades. From 1970 to 2000, the town's population grew more than it had in the century prior to 1970.
2. The greatest numerical and greatest rate of growth occurred between 1970 and 1980.
3. In the 1990s, growth is due to *net in-migration* as there have been more deaths than births resulting in a *natural decrease*.
4. Except for Sanford, Alfred's growth rate was lower than all of its immediate neighbors.
5. From 1970 to 2000, census figures indicate an increase in the median age for Alfred residents. In 1990, people over 65 represented 15% of the population, up from 10% in 1980. Projections through 2010 indicate an increase in the median age.
6. A seasonal population fluctuation of approximately 18% due to summer residents is less than that of surrounding towns.
7. Using projections based on the SMRPC 1998 Population Estimate and growth trends of the 1990s, Alfred's population is projected to increase 9% by 2005 and 13% by 2015, substantially slower growth than projected by the 1991 Comprehensive Plan.
8. In 1990 the average household size in Alfred was 2.61 persons. By the year 2000 the average household size had decreased to 2.26 persons reflecting a ten-year decline of 13%.

9. The data in the population chapter relies on the latest numbers available and from 2000 U.S. Census. Estimates and projections are based on historical trends of the U.S. Census figures up to the year 2000.

Planning Implications and Other Issues

1. The most obvious implication of Alfred's growing population during the planning period will be an increased demand for housing, services and facilities and increased impacts on roads and traffic, natural resources and the town's overall fiscal situation.
2. The growing number of senior residents will increase demand for more elderly services and for alternatives to large single-family housing.
3. The continued reduction in the average household size will also step up the demand for smaller housing types thereby increasing the need for more housing units to accommodate the same population.

Economy

Summary of Inventory and Analysis

1. The size of Alfred's work force increased 8% from 1992 to 2002 while unemployment dropped slightly.
2. The percentage of people in the work force will continue to increase at a modest pace. As Alfred's senior population grows there should be a slower reduction in the workforce because they will continue to work.
3. Alfred's local economy is relatively diverse, with of a number of smaller firms that are primarily retail and service-oriented. There is no one major employer.
4. In 1990, there were 76 businesses in Alfred. In 2002, the number of businesses increased by 9.5 % to 84.
5. The town's only real heavy industry is concrete products. There are also a number of paving contractors, sand and gravel extraction operations, and small metal fabrication shops.
6. Just over 11.5% of the town's 2002 State valuation are commercial land and buildings, and only 3.5% of the town's land are used for commercial uses.
7. Alfred's residents' economic growth is closely tied to the regional economy, with a substantial part of the workforce employed outside the town.
8. The county facilities located in Alfred make it a major regional employer. The county

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correctional facilities were outgrown and a new facility is being constructed. Construction should be completed in the fall of 2003.

9. Most residents continue to work in manufacturing, professional and service jobs. From 1990 to 2000, there were declines in the farming / fishing / forestry and construction sectors while positions in service / sales/ office environments increased. Management, professionals and service positions are now the largest single job category.
10. Alfred's per capita income has kept pace with the subregion. The per capita income increased 34% from 1989 to 2000. However, the percentage of households below the poverty level has increased in Alfred, but declined in York County. The 2000 median household income for rural York County increased 26% but Alfred's only increased 22%.
11. Alfred's unemployment rate is slightly higher than most towns in subregion (5.2%).
12. The importance of agriculture and forestry, as a part of the town's economy, has diminished since World War II. Apple orchards remain the most important resource-based enterprise, but their importance will decline in the future.

Planning Implications and Other Issues

1. Alfred's economic condition during the 2000s will be largely determined by the economic health of the region, particularly towns within a 30-mile radius of Alfred.
2. Resource-based enterprises in Alfred will probably continue to decline in the 2000s until they are non-existent. Regional and national economic trends shift will have to change drastically to prevent this.
3. Beside agricultural and forestry activities, survey respondents were most supportive of small industry in Alfred. Eighty four percent (84%) opposed large industry and they didn't want an industrial park.
4. Existing commercial uses provide only a small percentage of local tax revenues, but this is typical of neighboring towns, except Sanford.
5. The aging of the baby boom population could increase the demand for services without adding to economic growth of the town. For example, our survey showed people wanted more seniors housing but were not in favor of low-income housing.

Housing

Summary of Inventory and Analysis

1. Most of Alfred's housing is comprised of stick-built, single-family homes, which in 1999
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amounted to 71% of the total.

2. Mobile homes, as a percentage of total housing stock, rose from 23% in 1989 to 27% in 1999. The numerical increase in mobile homes during this planning period was from 213 to 299. The anticipated completion of the expansion of Keywood Manor will significantly increase the number of mobile homes in Alfred. The proposed completion date is in 2002.
3. Between 1989 and 1999, the number of multi-family structures decreased 79%. The number of multi-family homes went from 89 in 1989 to 19 in 1999. During the ten-year period, the percentage of multifamily structures decreased to 6% of the total housing stock.
4. In 2000, the total numbers of housing units in Alfred were as follows: year round units – 996, seasonal units – 75, vacant units - 32 for a total of 1,103 housing units. Of these 173 were renter occupied.
5. Alfred has a lower percentage of seasonal units than its neighbors.
6. Homes in Alfred are generally well cared for. In a field survey done in 1990, it was indicated that less than 1% of the housing in town was considered substandard.
7. During the early 1990's, housing prices declined as the national recession took its toll on the local economy. In the past few years, housing prices have again started to climb dramatically.
8. Alfred's present inventory exceeds its fair share of the 10% state goal of all new housing being "affordable".
9. Encourage the location of new mobile home parks to the new proposed expansion area of the Village District or the present Village District, since mobile home parks are an intense residential use unsuitable for a rural area.

Planning Implication and Other Issues

1. Using a population estimate of 3,287 for the year 2010, a total of 1,453 housing units would be needed -- an additional 350 units over the current 2000 census.
2. Current sales of new homes indicated that the median sales price of a home in Alfred is \$98,500 and the median sales price of a home in Alfred is \$104,000. At this level, neither low income nor moderate income residents can afford homes presently being sold in Alfred. Using the Federal Department of Housing and Urban Developments' published 1998 median family income of \$42,200, a family earning 80% of median (\$33,760) can afford a \$75,000 home. A family earning 150% of the median income (\$63,300) can afford a \$175,000 home.
3. During the past 10 years, only 19 multi-family dwelling units were constructed in Alfred. As the current trend in housing affordability continues, the need for other types of affordable housing

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will need to be addressed.

4. Alfred's existing zoning standards, which generally require multi-family units to meet minimum lot size requirements for each unit proposed, make development of this housing type extremely difficult.
5. Accessory apartments, a viable housing option for aging relatives, are allowed by the existing zoning provisions.
6. A large number of new manufactured housing units have been constructed in the Keywood Manor mobile home park in the past five years. Though price data is publicly not available for these units, it is generally assumed that these units are "affordable." Because these units are available only to senior residents 55 years old and older, they do not create a strain on municipal services (e.g.: schools)

Land Use And Development

Summary of Inventory and Analysis

1. Alfred covers an area of 18,000 acres or about 29 square miles.
2. Alfred's land has a considerable number of environmental constraints, particularly poor soils and slopes, thus making development difficult or impossible in large areas of town.
3. The two largest uses of land in Alfred are residential uses (single-family dwellings) and vacant land.
4. In 2002, undeveloped land declined 5.4% to 9,930 acres, which is just over 55% of the town's total land area.
5. Residential use continues to comprise 76% of the developed land.
6. The total parcels in town devoted to commercial or industrial uses dropped from 5% to 4.6%.
7. A relatively dense concentration of residential, commercial and institutional uses occurs in the village; otherwise residential and commercial uses are scattered throughout the town, along town and state roads.
8. From 1991 to 2001, building permits have fluctuated between 7 to 46 permits per year. In the last five years (1997 to 2001) the town averaged 39 permits a year. This has exceeded any previous 5-year rolling average by 15 permits a year.
9. Almost all development during the past 10 years occurred outside the village along existing roads. No significant development of new town roads has occurred, however, private roads have

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increased.

10. Recent commercial growth has occurred along the Route 4, 202 and 111 corridors and is mostly service-oriented businesses.
11. Home occupations have been stable in the town during 1990 to 2000.
12. Agriculture and forestry-related activities are declining. Lavalley Lumber has sold its large tracts of land in the town, which are currently being harvested and developed. Commercial apple production is diminished. The amount of land devoted to other agricultural uses is changing.
13. The town's existing zoning ordinance now designates seven districts instead of five. A Commercial District and Round Pond Watershed Protection District were added. The General Purpose district was changed to Rural Residential District. The Center Village, Village, Resource Protection and Shoreland Districts remain the same. The Rural Residential District now encompasses much of the town's rural areas, and is the largest district. This district requires 3-acre lots, 360-foot road frontages and allows most types of land uses as either permitted or conditional uses.

Planning Implication and Other Issues

1. Most recent development is occurring in a scattered pattern throughout town, along existing roadways. With the availability of new forest and agricultural lands for development, adjustments need to be made in the town's land use provisions or this pattern will probably continue.
2. Continued loss of open space and the effects of sprawl in the rural area will eventually lead to loss of the town's rural character. 58% of the survey respondents indicated that the town's rural or small town atmosphere was a major reason why they chose to live in Alfred. Besides eroding the town's rural character, sprawl development will be costly to Alfred.
3. Until existing roads are "stripped out" with lots every few hundred feet, there are no incentives for the construction of new internal roads in the Center Village and Village areas.
4. The loss of agricultural and forestland should encourage the town to pursue policies that keep remaining resource-based activities viable. These uses keep large amounts of land open and often require little in the way of municipal services.
5. Promoting selected well-designed and buffered developments on the village periphery would help keep new housing near good roads and existing services and help preserve rural areas of town.
6. Some commercial "strip" development has occurred along arterial roads, and this development pattern is likely to continue in the future, unless the town adopts measures to discourage it.

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Public Facilities

Summary of Inventory and Analysis

1. The town built a public safety building in 1994, located on Kennebunk Road, which adequately houses the Fire Department and the Rescue Department vehicles and equipment as well as provides room for future expansion.
2. In addition to the central fire station, Shapleigh's Ross Corner Fire Company provides fire protection to the town's most northern section. Alfred provides financial support to the Ross Corner Fire Company and has mutual aid arrangements with area towns.
3. The purchase of a fire truck (replacing two vehicles) resulted in the need to replace only one of the three remaining fire safety vehicles.
4. A combination of paid full-time department personnel and volunteers provide rescue service to accommodate the town's population increases, new county facilities, and the ability to adequately respond to rescue calls.
5. The York County Sheriff's department and the State Police provide law enforcement services.
6. The town's solid waste disposal continues to moderately increase in volume as the population increases.
7. A new transfer station is presently under construction and will be operational in September 2002. This new 35-acre site should be adequate for future storage of scrap metal, white goods, demolition debris, clean wood, brush, tires and recycling.
8. The town's voluntary recycling program continues to improve, however, the proper disposal of "hazardous waste" is critical issue for the community to address.
9. The Alfred Water Company is now operating as a Water District of the town and serves 273 households. The trustees of the water district have initiated improvements to the water system, which should be completed in 2002.
10. Alfred does not have a public sewerage disposal system. Residents rely on individual subsurface wastewater disposal systems.
11. Alfred is part of School Administrative District (SAD) 57. The District schools serving Alfred are the Alfred Elementary School, Massabesic Junior High School, and the Massabesic High School.
12. Due to overcrowded conditions at the Massabesic Junior High School, SAD 57 is presently

seeking funding and a suitable location for a new Junior High School.

13. The Parsons Memorial Library continues its limited open hours. With private funds, it underwent an expansion in 1993 to and increasing the operating area to 2600 square feet.

Planning Implications and Other Issues

1. Growing population has already increased the demand for town services, particularly in emergency responses of the Alfred rescue to the southernmost part of Alfred. Fire protection is also a key concern in this area.
2. The location and nature of the town's future growth will also affect public facility and service needs. Continued residential development in outlying areas will mean the town will spend more to provide services than if development takes place closer to the village area.
3. Capital improvements need to be addressed during the planning period for replacement of some of the existing fire equipment.
4. Maintaining an adequate level of volunteerism will become even more of a challenge as training requirements and service calls increase during the planning period.
5. Fire and rescue needs during the planning period can be met if the town invests in needed capital improvements and if an adequate level of volunteerism can be maintained. A branch fire station may be required, but a more regional approach to fire and rescue needs such as mutually supported branch fire stations should be considered for the future.
6. The town's present law enforcement arrangement is felt to be adequate for the planning period. As population increases, a "Contract Deputy Program" should be considered in the future.
7. Solid waste issues that need to be addressed during the planning period; continued rising costs for the disposal of solid waste, illegal dumping, disposal of tires, white goods and especially disposal of household hazardous materials.
8. The possibility of extending the water and sewer lines from South Sanford to serve existing and proposed facilities should be considered.
9. Continued monitoring of large engineered septic systems by their owners is needed to ensure that these systems are not malfunctioning.
10. A number of potential threats exist to the town's public water supply, which could cause contamination. The Alfred Water District's wellhead, located beside Round Pond, is adjacent to an old landfill and taps into a high-yield aquifer over which significant development has occurred. The septic system for the County Jail is within the watershed of Round Pond.

11. The Alfred Water District will continue to face the issues of an aging distribution system and federal and state mandates regarding water quality protection.
12. School districting somewhat insulates the town from budgeting decisions; however, the town's growth policies will affect educational costs. Better coordination between the town's Capital Investment Plan and the school district's planning activities might help the town in anticipating major cost increases.
13. The growing population and the growing complexity of municipal affairs will put strains on Alfred's system of part-time government and administration. The town may need to evaluate the adequacy of governmental and administrative practices in providing sound management of the town.
14. The present Town Hall is felt to be inadequate to house town government and services during the planning period. It is interesting to note that there is no mention in Capital Investment Plan Volume 3 to rectify this problem.
15. The library appears to meet local demands, however, hours might be increased and additional public support could be solicited.

Recreation

Summary of Inventory and Analysis

1. Alfred's recreation opportunities are provided mainly by the town's 10-acre recreation area, the facilities of the Alfred Elementary School, the town's public library, a privately run campground, and undeveloped land that provides multiple outdoors uses.
2. Several recreational facilities are available through the Brothers of Christian Instruction on a lease basis.
3. There are 30 miles of snowmobile trails maintained by the Shaker Valley Snow Travelers Club. These trails are open to the public for snowmobiling and cross-country skiing.
4. The Massabesic Experimental Forest, owned and operated by the U.S. Forest Service, is used for a variety of outdoor activities, including hunting, snowmobiling and newly marked trails for hiking.
5. The privately run Walnut Grove campground has 93 campsites and offers a range of indoor and outdoor recreation.
6. Alfred has no public access to its principal surface waters for fishing, boating and swimming.
7. Alfred residents do take advantage of public access points on Bunganut Pond, other surface

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waters in the region and the seacoast.

8. The volunteers under the direction of the Parks and Recreation Committee manage Alfred's recreation programs.
9. Revenues for the Park and Recreation Committee come partially from town appropriations and the balance from user fees.

Planning Implications and Other Issues

1. As with other town services, a growing population will increase demand for recreational facilities and services. Alfred's population profile during this time period suggests that more recreational programs could be geared to a middle-aged population. After the year 2010, there will be a growing need for programs for older residents.
2. Future growth will also mean that more open space areas will be developed and/or posted, leading to loss of some traditional recreational opportunities.
3. The town spends relatively little on recreation. Recreation facilities and programs receive little support when it comes to paying for increased services.
4. The town's lack of public access to its ponds and lake is an issue that will grow more acute as population increases and land prices continue to rise.
5. Other than lack of public access to its ponds and lakes, Alfred's existing recreational facilities and opportunities appear adequate to meet the basic recreational needs of the population during the planning period.
6. If the town is to undertake a more ambitious recreation program that goes beyond meeting basic needs, it will need considerable volunteer support, possible part-time staffing, funding with user fees and increased tax support.
7. The Massabesic Experiment Forest is a valuable recreational asset that should not be taken for granted. The town should make sure that the National Forest Service continues its policy of allowing unrestricted public access.
8. By planning to secure and preserve public access to selected areas as development occurs, the town can help maintain traditional access to and use of undeveloped areas.

Transportation

Summary of Inventory and Analysis

1. Alfred's transportation system consists chiefly of its roads and bridges. While the town has no Alfred Comprehensive Plan, Volume 2: Data Inventory

mass transit program, York County Community Action Corporation (CCAC) provides limited transit services to all residents and additional specialized services to income-eligible individuals.

2. The town does not have any designated "park and ride" lots, but there are several locations in town where commuters meet to carpool.
3. The single abandoned railroad bed is now largely privately owned.
4. There is no sidewalk system in town and no public parking facilities, except those serving town and county administrative facilities.
5. There are 9.03 miles of state-maintained roads in town.
6. There are almost 41.6 miles of town-maintained road, of which 19.63 miles function as collector roads.
7. The state-maintained roads and bridges are in good to excellent condition.
8. Of the town-maintained roads, 10% have fair to poor pavement compared to 40% in 1991. (The Alfred Road Commissioner provided this information in 1998).
9. There are 14 publicly maintained bridges in Alfred. Of these, three are maintained solely by the town of Alfred, one jointly with the town of Sanford and the remaining ten by the MDOT.
10. Traffic counts and projections indicate that Alfred's arterial traffic volume will continue increase exponentially into the year 2010. Traffic volumes have increased by 14% between 1995 and 2000. One quarter of Alfred roadways are carrying more than their calculated capacity.
11. Studies of accident locations between the years of 1997 and 1999 indicate that there are two sections of roadway that have a high crash accident rating.

Planning Implications and Other Issues

Upon review of the transportation survey held at a public meeting in March 2002, the following important conclusions can be drawn.

1. Immediately improving all town roads to an acceptable standard is well beyond the financial capacity of the town. The town must assign priorities to road projects, according to their condition, their importance to the town's transportation network and the appropriateness of the surrounding area for future development.
2. Bridge and road reconstruction projects are well suited to a capital improvement planning process which prioritizes improvements, schedules the setting aside of capital reserves and identifies alternate funding sources.

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3. New driveway openings along major arterials reduce the ability of these roads to carry traffic. Discouraging new driveways on arterial roads and encouraging new driveways on internal roads helps to preserve the primary function of arterial roads.
4. As traffic volumes increase on Route 202 and 4 through the village, there will be increased pressure for road widening, which could severely undermine the attractiveness and viability of this area. In its planning efforts the town needs to stay abreast of this issue and be ready to offer alternatives to the Maine Department of Transportation.
5. A pavement management system would promote improved road maintenance and provide a valuable tool for the Capital Improvement Committee.
6. Alfred residents are not interested in sharing rides. They are unwilling to expend funds if the expense was placed on the town. Therefore "park & ride" areas are not a viable solution to reducing the traffic load on Route 111.
7. There seems to be a consensus that there should be a traffic control light at the intersection of Kennebunk road and Route 111. There is presently a blinking red light at this intersection.
8. A flashing light, increased signs and defined crosswalks on Routes 202, 111 and 4 in the center village would add to the safety of pedestrian traffic.
9. Residents are strongly in favor of developing a road improvement maintenance plan to be used as a basis for a reserve fund for capital improvements of town maintained roads and bridges.
10. Bike paths and sidewalks or walking paths should be included in all new road construction or road renovations.
11. Subdivision developers should continue to bear the cost of sidewalk or walkway improvements to public roads.
12. Encourage regional public transportation to Biddeford and Sanford. Expand transportation schedules and awareness for residents who are handicapped or elderly.

Fiscal Planning

Summary of Inventory and Analysis

1. Alfred's Tax Rate has remained fairly stable over the past ten years. In 1993, it dropped 24% as the result of the revaluation.
2. The last town valuation was in 1993. During this "Factor Year," assessed valuation increased by 44.2%.

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3. The town does not have an ordinance limiting the annual percentage increase in the tax rate.
4. The town has a Capital Investment Plan. There are reserve funds for capital improvements.
5. The town does not have in-house capabilities to do market analyses to determine the current market value at which property is assessed. Annual adjustments are not made to keep assessed values current with market values.
6. The percentage increase in expenditures between 1990 thru 2000 was greatest for Other, Library and Parks & Recreation.
7. From 1990 to 2000, adjusted expenditures increased 21% while adjusted revenues increased by 29%.
8. In 2001, residential property accounted for 73% of Alfred's State Valuation. The amount of residential property, as a percentage of the State Valuation, has increased annually from 14% in 1991 to 73% in 2001.
9. Alfred has 2,143 acres of Tax Exempt Land, which is 11.7% of the town's 18,350 acres. The assessed value of this tax-exempt land and buildings is \$15,558,810.00, which is 12.1% of the town's total assessed valuation. Completion of the New York County Jail will further increase this percentage. (See Chapter 12, "Land Use.")
10. In 2000, Alfred had no Tax Anticipation Notes. (A "TAN" is a short-term note to pay for town operations while awaiting payment of property taxes.) TANs have not been used since the early 1990's.
11. Alfred has a A- bond rating.
12. Alfred bills for property taxes once a year and offers a Tax Club to taxpayers who wish to pay taxes monthly.

Planning Implications and Other Issues

1. The overall fiscal condition of the town is good, solely based on its ability to fund immediate needs.
2. The town's fiscal condition weakens if one looks at the capital expenditure items that must be addressed during the next 10 years.
3. By planning for capital improvements and scheduling payments into reserve, the town can help avoid sudden increases in expenditures.
4. Even with capital improvement planning, it is unlikely that the town can fund all its capital

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improvement needs solely through local taxation. The town must look at alternate funding sources and toward long-term borrowing.

Natural Resources

Surface and Groundwater

Summary of Inventory and Analysis

1. Existing water quality of Alfred's lakes and ponds is generally good to excellent.
2. Under the Lake Vulnerability Index, Estes lake is rated as "extremely vulnerable," Shaker Pond, and Middle Branch Pond are rated as "highly vulnerable" to phosphorus pollution.
3. Discharges from the Sanford Wastewater treatment plant flow into Mousam River, which in turn, flows into Estes Lake.
4. The town's land area contributes to at least 10 watersheds. The watersheds of a number of lakes and ponds extend well outside the town's boundaries -- leaving Alfred with little control over development activities in these areas.
5. Alfred closed landfill and current transfer station, as well as the new County Jail abuts a high-yield aquifer and wellhead for Alfred Water Company.
6. The other high-yield aquifer at the southern edge of town extends into Lyman and Kennebunk and lies under Keywood Manor mobile home park.
7. A number of threats to Alfred's groundwater resources have been identified ranging from underground fuel storage tanks to high-density residential development. 298 potential threats have been identified.

Planning Implications and Other Issues

1. There is considerable potential for deterioration of lake and pond water quality as a result of phosphorus-laden runoff from development, forestry and agricultural activities within watersheds.
2. Lakeside septic systems also pose a threat to surface water quality, especially older systems that are located quite close to the high water mark.
3. Although the town has not had problems with groundwater quality to date, there is considerable potential for contamination of the town's two high-yield sand and gravel aquifer areas.

4. There are no specific local measures protecting groundwater high-yield sand and gravel aquifers, monitoring of potential groundwater threats, or providing specific protection for the wellhead of the Alfred Water District.

Other Natural Resources

Summary of Inventory and Analysis

1. Twenty-six wetlands in Alfred have been identified by the Maine Department of Inland Fisheries and Wildlife (IF&W).
2. Alfred has four wetlands rated as high-value by the Department of Inland Fisheries and Wildlife, three located in the Shaker Pond / Littlefield River areas and one on Hay Brook at the Stone Road bridge.
3. Alfred's two state-mapped deer wintering areas are rated as high-value. They are located within the Massabesic Experimental Forest and in north Alfred, south of Avery Road.
4. The IF&W rates Carlisle Brook as a high-value fishery; Estes Lake, Shaker Pond and Round Pond as moderate value.
5. Alfred's network of streams, wetlands and other water bodies provide wildlife habitat and travel corridors for the movement of deer, waterfowl, fish and other animals.
6. Eleven different species of endangered plants have been identified in Alfred. No information is available on endangered animal species.
7. No scenic areas of state or regional significance have been identified in Alfred. Ten scenic areas of local significance have been identified.

Planning Implications and Other Issues

1. Development activities can have a negative impact on adjacent wetlands, deer wintering areas, fisheries, other wildlife habitat, endangered species, and scenic views.
2. Agricultural and development activities in East Alfred and Waterboro could have a potentially negative impact on high-value wetlands in the Shaker Pond and Littlefield River areas.
3. High-density development in Sanford could have a potentially negative impact on a high-value wetland located on Hay Brook at Stone Road Bridge.
4. Existing ordinance provisions designate all inland wetlands one acre or larger as Resource Protection, and define buffer areas around wetlands as Shoreland Zones.

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5. Limited local ordinances exist to require protection of deer wintering areas, endangered species or scenic views.
6. Agricultural and forestry resources are vulnerable to residential development, although over 30% of Alfred's forestland are included either in tree growth or in the Massabesic Experimental Forest.
7. No local measures protect farm, forestlands or prime soils for agriculture and forestry. The town's 3-acre minimum lot size in the Rural Residential District does not protect undeveloped areas from sprawl development.
8. The local and regional economies do not favor the continuation of farming. 658 acres of the town's agricultural lands are registered under the Maine State Farm and Open Space Law.
9. The Town should adopt a regional approach with abutting towns to preserve entire natural resource areas in multi-jurisdiction areas.

Cultural Resources

Summary of Inventory and Analysis

1. The Alfred Historical Committee and Historical Society has been the main force behind historic preservation in town.
2. The Alfred Historic District is located in the center of the village and is on the National Register of Historic Places. It is comprised of 48 buildings and was designated in 1983.
3. The Alfred Historical Society has identified 45 additional buildings of historic or architectural significance throughout the town; most would be eligible for the National Register.
4. The National Register designation does not protect a building from alteration or destruction, unless Federal monies are involved.
5. The Shaker Village located on Shaker Hill has at least eight surviving buildings of historic merit.
6. At least 53 cemeteries have been identified in town.
7. Alfred has no identified prehistoric archeological sites (prior to 1600)
8. Three historic (after 1600) archeological sites have been identified in Alfred (all are pottery sites). No professional survey has been conducted on these sites.
9. The Alfred Quarry, west of Bennett Road, is a historic archeological site of local significance.

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10. The main threat to the Alfred Historic District is the increasing amount of traffic on Route 202 and Route 111 through the village. Any future widening of these roads to accommodate this traffic could significantly alter the character this district.
11. There are no local regulations protecting historic resources.

Planning Implications and Other Issues

1. While the town's historic resources are considerable and the public opinion indicates strong support for preserving the town's historic buildings, a proposed design review ordinance for the center village was voted down at Town Meeting. Historic preservation might be better focused on non-regulatory approaches and thorough site plan review of new uses locating within the center village.
2. The town must stay abreast of MDOT's plans for future road widening in the village area.
3. While the town cannot afford to conduct detailed professional surveys on archeological sites as they are uncovered, appropriate measures for the protection of these sites should be included in any future development