

# INVENTORY OF FIRE PROTECTION AND EMERGENCY MEDICAL SERVICES FOR WESTERN RACINE COUNTY

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NUMBER 129

**INVENTORY OF FIRE PROTECTION AND EMERGENCY  
MEDICAL SERVICES FOR WESTERN RACINE COUNTY**

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# **INVENTORY OF FIRE PROTECTION AND EMERGENCY MEDICAL SERVICES FOR WESTERN RACINE COUNTY**

## **INTRODUCTION**

Fire protection and emergency medical services (EMS) are among the most important services which local units of government provide. They can be provided through a number of different functional and institutional arrangements. The challenge facing local units of government is to provide a high level of fire protection and emergency medical services in a cost-effective manner. Periodic review of existing service arrangements can help local units of government meet this challenge.

In Spring 1998, the local units of government in western Racine County, in conjunction with the Racine County Department of Planning and Development, requested the assistance of the Regional Planning Commission in the conduct of a study of fire protection and emergency medical services in that portion of Racine County located west of IH 94. The study was conceived as an "inventory", or data collection and reporting effort, and was intended to provide uniform, up-to-date information for each fire and rescue department serving the area, including information regarding department service areas, station locations, personnel, apparatus, level of activity, mutual aid agreements, fee structures, and expenditures and revenues. The study findings would be made available to the local units of government and fire and rescue departments in western Racine County for use as they see fit. The information collected under the study could, for example, be used by local units of government and fire departments in local efforts to review current service arrangements; to help assess existing and future needs; and, potentially, to identify ways in which services might be improved or made more efficient.

The Regional Planning Commission staff undertook the necessary data collection work during Summer 1998. Most of the data were obtained directly from the respective fire and rescue departments through a survey questionnaire completed by each department and follow-up personal interviews and telephone contacts. Additional information was obtained from the offices of municipal clerks. This memorandum report summarizes the findings of the data collection effort.

## **Study Area**

The study area is defined as the area of Racine County located west of IH 94. It is bounded by IH 94 on the east, Milwaukee and Waukesha Counties on the north, Walworth County on the west, and Kenosha County on the south. The study area includes eleven general purpose units of government: the City of Burlington; the Villages of Rochester, Union Grove, and Waterford; and the Towns of Burlington, Dover, Norway, Raymond, Rochester, Waterford, and Yorkville.

The study area encompasses about 240 square miles, or about 70 percent of the total area of Racine County. Urban land uses--consisting of urban-density residential, commercial, industrial, governmental and institutional, intensive recreational, and transportation, communication, and utilities--encompassed 27 square miles, or 11 percent of the study area, in 1990. Much of the existing urban development is concentrated in and around the incorporated places--the City of Burlington and the Villages of Rochester, Union Grove, and Waterford--and around major lakes--particularly, Bohners Lake, Browns Lake, Eagle Lake, Tichigan Lake, Waubeesee Lake, and Wind Lake. In addition to these areas of concentrated urban development, scattered

isolated urban enclaves, consisting for the most part of unsewered residential development, also exist. Despite widespread urban development, a substantial portion of the study area--213 square miles, or 89 percent--remained in agricultural and other nonurban use in 1990.

The population of western Racine County increased from 28,400 in 1960 to 37,200 in 1970, to 40,600 in 1980, and to 43,100 in 1990--a total increase of 14,700 persons, or 52 percent, over those three decades. Based upon Wisconsin Department of Administration estimates, the study area population stood at 48,400 persons in 1997--about 5,300 persons, or 12 percent, greater than the 1990 census population.

While the study focused on western Racine County, this report does identify areas of adjacent counties that are served by western Racine County fire and rescue departments.

## **INVENTORY FINDINGS**

### **Existing Departments**

Fire protection and emergency medical services in western Racine County are provided through six public departments and four private companies. The existing departments and companies are listed in Table 1.

Public fire and rescue departments are created and operate as departments of individual city, village, or town governments or may be created and operate as joint departments of two or more units of government. In western Racine County, the six public departments include the City of Burlington Fire Department, the Town of Burlington Fire Department, the Kansasville Fire Department, the Town of Raymond Fire and Rescue Department, the Union Grove-Yorkville Fire and Rescue Department, and the Village of Waterford Fire and Rescue Department. The Union Grove-Yorkville Fire and Rescue Department is the only joint public department, having been created by the Village of Union Grove and the Town of Yorkville.

The four private fire and rescue companies in western Racine County are nonprofit corporations. The private companies include the Burlington Rescue Squad, Inc; the Rochester Volunteer Fire Company, Inc.; the Tichigan Volunteer Fire Company; and the Wind Lake Volunteer Fire Company, Inc. For convenience, the private companies will also be referred to as "departments" in the balance of this report.

The departments in western Racine County may be distinguished based upon whether they provide fire suppression and other fire protection services, emergency medical services as State-licensed ambulance operators, or both. As indicated in Table 1, five departments provide both fire protection and ambulance services. Four departments provide fire protection services but do not provide ambulance services. One department--the Burlington Rescue Squad--provides ambulance and other rescue services but not fire protection services. As further indicated in Table 1, two departments, the Kansasville Fire Department and the Tichigan Volunteer Fire Company, provide first-responder emergency medical service through emergency medical



technicians who are licensed under neighboring ambulance departments.

**Table 1**  
**FIRE AND RESCUE DEPARTMENTS IN WESTERN RACINE COUNTY**

Department	Type of Department	Major Service Category		
		Fire Protection	Emergency Medical Services <sup>a</sup> (ambulance)	First Responder Service (no ambulance)
City of Burlington Fire Department	Public Department	X	--	--
Town of Burlington Fire Department	Public Department	X	--	--
Burlington Rescue Squad, Inc.	Private Company	--	X	--
Kansasville Fire Department	Public Department	X	--	X
Town of Raymond Fire and Rescue Department	Public Department	X	X	--
Rochester Volunteer Fire Company, Inc.	Private Company	X	X	--
Tichigan Volunteer Fire Company	Private Company	X	--	X
Union Grove-Yorkville Fire and Rescue Department	Public Department	X	X	--
Village of Waterford Fire and Rescue Department	Public Department	X	X	--
Wind Lake Volunteer Fire Company, Inc.	Private Company	X	X	--

<sup>a</sup>Provides emergency medical services as State-licensed ambulance provider.

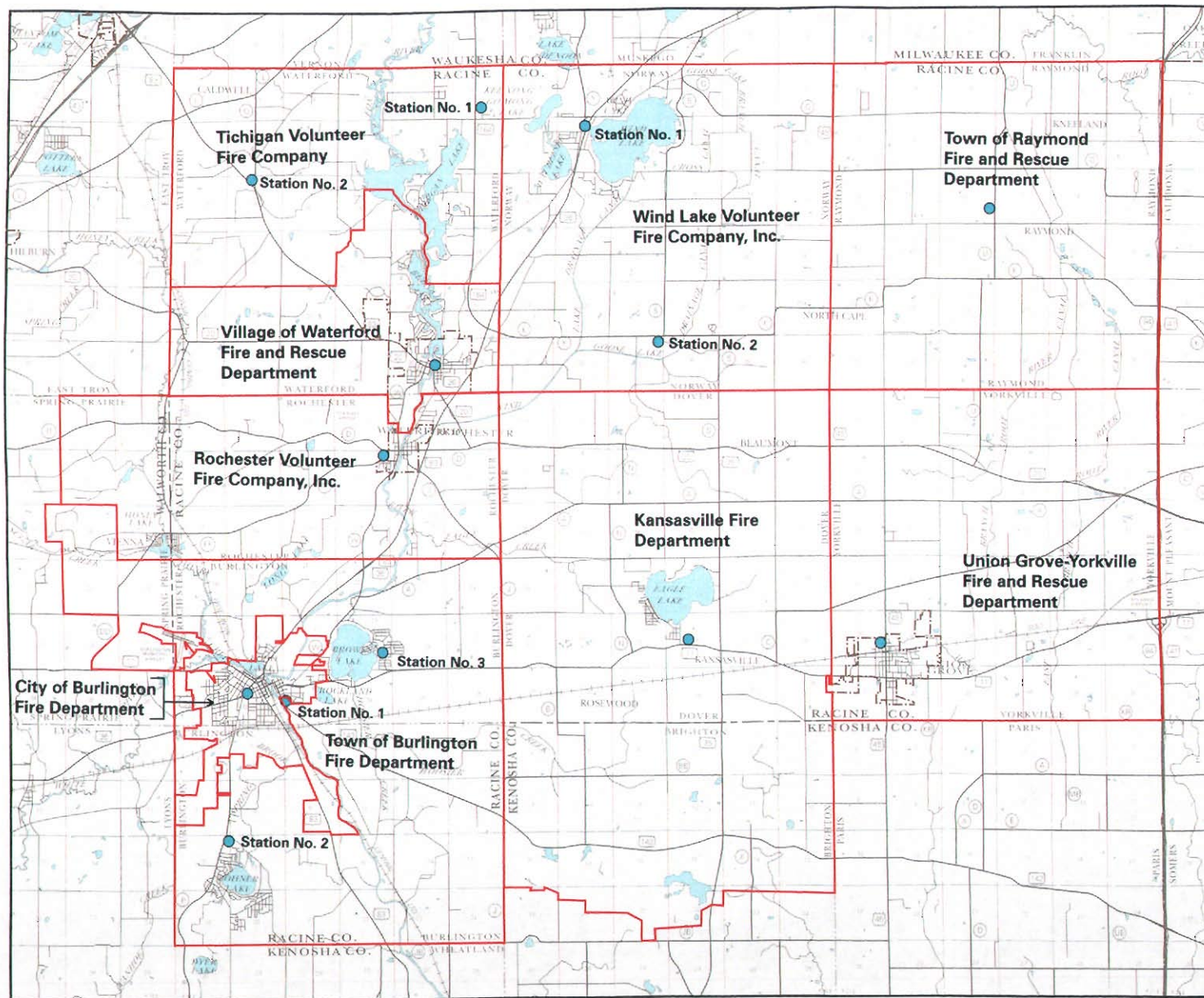
Source: Western Racine County Fire and Rescue Departments and SEWRPC.

### Existing Service Areas

Some communities in western Racine County have arranged for the provision of fire protection and emergency medical services through a single public or private department, while others rely on more than one department for these services. In the Town of Raymond, for example, fire protection and emergency medical services are provided by a single municipal department--the Town of Raymond Fire and Rescue Department. Conversely, in the Town of Waterford, fire protection service is provided through the Village of Waterford Fire and Rescue Department and the Tichigan Volunteer Fire Company, while emergency medical (ambulance) service is provided by the Village of Waterford Fire and Rescue Department and the Wind Lake Volunteer Fire Company, supplemented by first responders from the Tichigan Volunteer Fire Company. Existing fire service areas and emergency medical service areas in western Racine County are described separately below.

### Fire Service Areas

Existing fire department service areas are shown on Map 1. Fire protection service in western Racine County is provided by nine departments. Three of these departments serve areas in adjacent counties. The Kansasville Fire Department serves part of the Town of Brighton in Kenosha County, while the Rochester Volunteer Fire Company and the Town of Burlington Fire Department serve parts of the Town of Spring Prairie in Walworth County. Along the east side of the study area, the Town of Raymond Fire and Rescue Department and the Union Grove-Yorkville Fire and Rescue Department are responsible for emergency calls--both fire and EMS--along abutting segments of northbound and southbound IH 94 and along the westerly frontage road of IH 94.



Source: Western Racine County Fire and Rescue Departments and SEWRPC.

The fire departments in western Racine County support each other through a mutual aid system. That system, which enables each department to obtain personnel, apparatus, and equipment from other departments on request, is described later in this report. Beyond that mutual aid system, automatic joint response arrangements for fighting fires have been established in certain areas of western Racine County. Existing automatic joint response agreements for fighting fires include the following:

- An agreement between the Rochester Volunteer Fire Company, the Tichigan Volunteer Fire Company, and the Village of Waterford Fire and Rescue Department which provides for an automatic joint response to structure fires by all three departments throughout the fire service areas of the three departments.
- An agreement between the Union Grove-Yorkville Fire and Rescue Department and the Kansasville Fire Department which provides for automatic joint response to all fires on weekdays and structure fires at any time.<sup>1</sup>
- An agreement between the Town of Burlington Fire Department and City of Burlington Fire Department whereby the Town department jointly responds with the City department to fires at the Burlington Municipal Airport.

### ***Emergency Medical Service Areas***

The service areas of the six State-licensed ambulance operators which are responsible for the provision of emergency medical services in western Racine County are shown on Map 2.<sup>2</sup> Two of the six departments also serve areas in adjacent counties. Specifically, the Burlington Rescue Squad serves a portion of the Town of Brighton in Kenosha County and a portion of the Town of Spring Prairie in Walworth County. The Rochester Volunteer Fire Company also serves a portion of the Town of Spring Prairie. As noted above, the Town of Raymond Fire and Rescue Department and the Union Grove-Yorkville Fire and Rescue Department are responsible for emergency calls--both fire and EMS--along abutting segments of northbound and southbound IH 94 and along the westerly frontage road of IH 94.

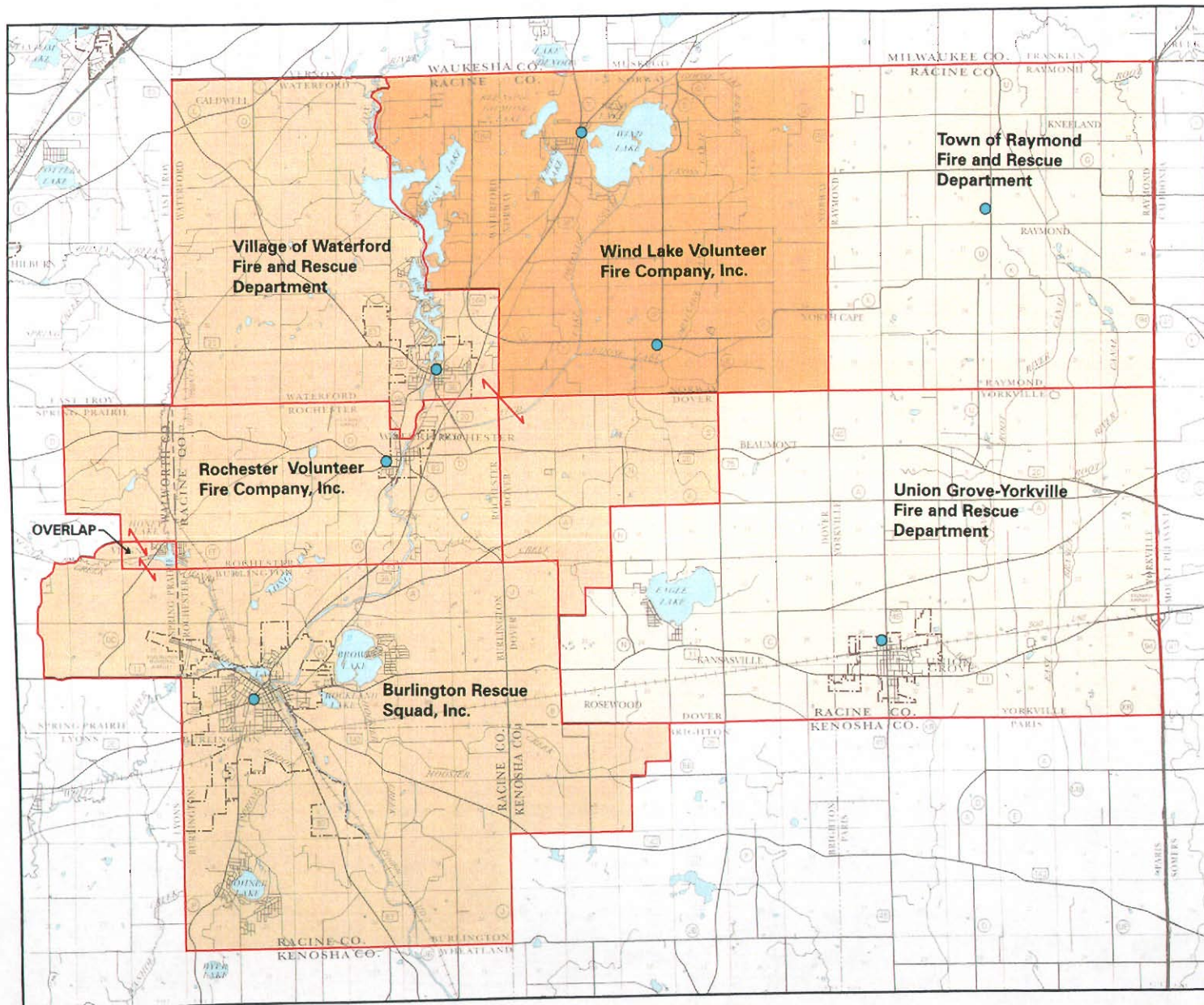
Each of the six ambulance operators is licensed and authorized by the State to provide a prescribed level of emergency medical

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<sup>1</sup>The automatic aid agreement between the Union Grove-Yorkville Fire and Rescue Department and the Kansasville Fire Department is not a written agreement. The Union Grove-Yorkville Fire Chief characterized the agreement as covering the same area of the Town of Dover as his department's EMS contract area (see Map 2), noting that his department would respond to fires in other areas of Dover as requested under mutual aid. The Kansasville Fire Chief characterized the automatic aid agreement as covering the entire Town of Dover.

<sup>2</sup>The emergency medical service area of the Burlington Rescue Squad within the Town of Dover as shown on Map 2 is the service area reported by that Squad. A map identifying emergency medical service areas on file at the Racine County Sheriff Department Dispatch Office identified a somewhat larger service area for the Burlington Rescue Squad in the Town of Dover, identifying the northern boundary of the Squad's service area in the Town as CTH A, from the westerly border of the Town eastward to CTH N.





Map 2

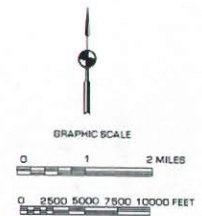
EMERGENCY MEDICAL SERVICE AREAS IN  
WESTERN RACINE COUNTY AND ENVIRONS: 1998

## LEGEND

- SERVICE AREA BOUNDARY
- EMS (AMBULANCE) STATION

## LEVEL OF EMS SERVICE

- BASIC
- INTERMEDIATE
- ENHANCED INTERMEDIATE



Source: Western Racine County Fire and  
Rescue Departments and SEWRPC.

service. The Wisconsin Statutes and Administrative Code establish three levels of service: basic, intermediate, and paramedic. Basic emergency medical service is provided through emergency medical technicians (EMTs-basic) having a minimum of 120 hours of training. Intermediate service is provided through emergency medical technicians (EMTs-intermediate) having an additional 100 hours of training. Paramedic service is provided through emergency medical technicians (EMTs-paramedic) having at least 750 hours of training beyond the basic level. In addition, "enhanced" intermediate service is currently provided under a pilot program by a limited number of departments in Wisconsin; under the pilot program, emergency medical technicians receive about 265 hours of training beyond the intermediate level.

Two departments--the Town of Raymond Fire and Rescue Department and the Union Grove-Yorkville Fire and Rescue Department--are authorized to provide basic life support service. Three departments--the Burlington Rescue Squad, the Rochester Volunteer Fire Company, and the Village of Waterford Fire and Rescue Department--are authorized to provide intermediate life support service. The Wind Lake Volunteer Fire Company is authorized to provide enhanced-intermediate service under the aforementioned pilot program. None of the departments in western Racine County is authorized to provide paramedic life support service.

Special arrangements for the provision of advanced life support services exist between the Wind Lake Volunteer Fire Company and three neighboring departments--the Town of Raymond Fire and Rescue Department, the Rochester Volunteer Fire Company, and the Village of Waterford Fire and Rescue Department. Under its state-approved operational plan, the Wind Lake Volunteer Fire Company sends an EMT-Enhanced Intermediate to assist the Raymond Fire and Rescue Department, which is authorized to provide basic life support, in cases where advanced life support skills are needed. Also under its state-approved operational plan, the Wind Lake Volunteer Fire Company sends an EMT-Enhanced Intermediate to assist the Rochester Volunteer Fire Company and the Village of Waterford Fire and Rescue Department--both of which are licensed at the intermediate level--in cases where the additional skills of an EMT-Enhanced Intermediate may be needed.

In addition to the six departments which serve western Racine County as licensed ambulance operators, two departments, the Tichigan Volunteer Fire Company and the Kansasville Fire Department, operate first responder emergency medical service programs. Members of these departments who are trained as emergency medical technicians report to the scene of emergency medical events and begin treatment prior to arrival of an ambulance.

Significant changes occurred in emergency medical service areas in 1998. The portion of the Town of Waterford currently served by the Wind Lake Volunteer Fire Company was served by the Village of Waterford Fire and Rescue Department prior to June 1, 1998. The Village of Rochester, the Town of Rochester, and a portion of the Town of Spring Prairie--all of which currently receive emergency medical services through the Rochester Volunteer Fire Company--were served by the Village of Waterford Fire and Rescue Department until January 1, 1998. Map 2 presents emergency medical service areas as they existed in July 1998 and thus reflects these recent changes.

## Other Service Area Considerations

Maps 1 and 2 identify responsibilities for primary responses to fire and EMS calls for the fire and rescue departments in western Racine County. For some emergency events, both a fire engine or other fire apparatus and an ambulance must be sent to the scene. For a personal injury vehicle accident, for example, in addition to an ambulance, a fire engine is usually sent to the scene, with the engine crew available in case of fire and for assistance in controlling the scene. Conversely, in the case of a structure fire, in addition to fire apparatus, an ambulance is usually sent to the scene for the safety and security of the firefighters. Where there are overlapping fire and EMS service areas, two or more departments may be involved in the response, one providing the fire engine and the other the ambulance.<sup>3</sup> In these situations, the supporting fire engine or ambulance would usually be sent by the departments in accordance with the service areas shown on Maps 1 and 2, although the primary responding department has discretion as to which department they request support from.

Still another service area consideration pertains to the provision of powered extrication equipment--epitomized by "jaws of life"--which is most commonly used for freeing victims from vehicle wrecks. Six departments in western Racine County have such equipment: the Burlington Rescue Squad, the Town of Raymond Fire and Rescue Department, the Rochester Volunteer Fire Company, the Tichigan Volunteer Fire Company, the Union Grove-Yorkville Fire and Rescue Department, and the Wind Lake Volunteer Fire Company. Areas within which these departments normally provide extrication equipment--either as part of their regular service arrangements or as mutual aid--are shown on Map 3.

## Mutual Aid

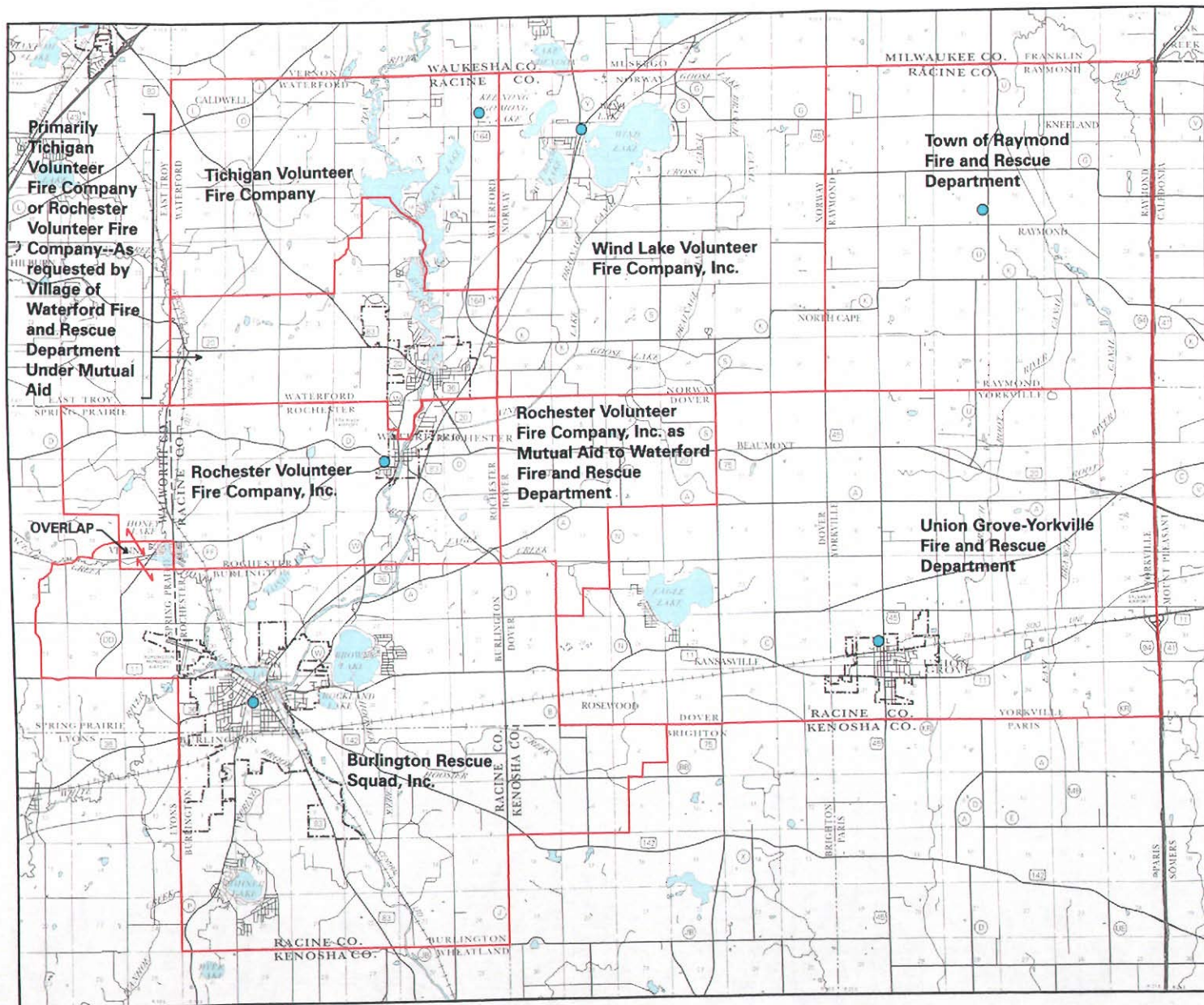
All of the fire and rescue departments in Racine County with the exception of the City of Racine Fire Department participate in a county mutual aid agreement. This agreement enables each department to render assistance to, and receive assistance from, other departments in the County as needed to respond to fire and rescue emergencies. Under the agreement, departments render assistance without charge to the extent of available resources not required for the protection of their own service areas. This agreement enables individual departments to significantly supplement their own personnel, apparatus, and equipment with that from other departments in responding to emergencies. Importantly, the agreement allows individual departments to access equipment--such as tankers, aerial trucks, and extrication equipment--which they themselves do not possess and which they may only need infrequently.

In addition to the county mutual aid agreement, each department has a reciprocal mutual aid agreement with one or more neighboring departments located outside Racine County. Some of these are formal, written agreements; others are unwritten. Table 2 indicates the mutual aid agreements between departments in western Racine County and departments outside Racine County as reported in the survey of fire and rescue departments. Many departments commented that they would respond to any request for mutual aid, whether or not there is a mutual aid agreement, provided that they are able to do so without jeopardizing their own service areas.

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<sup>3</sup>*This is in addition to mutual aid situations where two or more departments respond to the same event.*



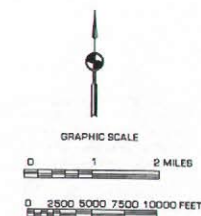


Map 3

RESPONSE AREAS FOR THE PROVISION OF  
EXTRICATION EQUIPMENT IN WESTERN  
RACINE COUNTY AND ENVIRONS: 1998

LEGEND

- RESPONSE AREA BOUNDARY
- STATION HOUSING EXTRICATION EQUIPMENT



Source: Western Racine County Fire and  
Rescue Departments and SEWRPC.

Table 2

**MUTUAL AID AGREEMENTS BETWEEN FIRE AND RESCUE DEPARTMENTS IN WESTERN  
RACINE COUNTY AND FIRE AND RESCUE DEPARTMENTS IN ADJACENT COUNTIES**

Department	Mutual Aid Department	Nature of Agreement		
		Fire	EMS	Written/Unwritten Agreement
City of Burlington Fire Department	Lyons Volunteer Fire Department	X		Written
	Lake Geneva Volunteer Fire Department and Rescue Squad	X		Written
Town of Burlington Fire Department	Lyons Volunteer Fire Department	X		Written
Burlington Rescue Squad, Inc.	Lyons Volunteer Fire Department		X	Unwritten
	Salem Rescue		X	Unwritten
	Silver Lake Rescue Squad		X	Unwritten
	Twin Lakes Fire and Rescue Squad		X	Unwritten
Kansasville Fire Department	Salem Volunteer Fire Department	X		Unwritten
Town of Raymond Fire and Rescue Department	Franklin Fire Department	X	X	Written
Rochester Volunteer Fire Company, Inc.	Lyons Volunteer Fire Department	X	X	Written
	East Troy Area Emergency Services	X	X	Written
Tichigan Volunteer Fire Company	Big Bend/Vernon Volunteer Fire Department	X		Written
	East Troy Area Emergency Services	X		Written
	Mukwonago Fire Department	X		Written
	Muskego Volunteer Fire Company	X		Written
	Tess Corners Volunteer Fire Department	X		Written
Union Grove-Yorkville Fire and Rescue Department	Paris Fire and Rescue Department	X	X	Unwritten
Village of Waterford Fire and Rescue Department	Mukwonago Fire Department	X	X	Unwritten
	East Troy Area Emergency Services	X	X	Unwritten
Wind Lake Volunteer Fire Company, Inc.	Big Bend/Vernon Volunteer Fire Department	X	X	Unwritten
	Muskego Volunteer Fire Company	X	X	Unwritten
	Tess Corners Volunteer Fire Department	X	X	Unwritten

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

### Stations, Apparatus, and Equipment

There are 13 fire stations in western Racine County (see Map 1). The Town of Burlington Fire Department has three fire stations; the Tichigan Volunteer Fire Company and the Wind Lake Volunteer Fire Company both have two stations; and the other fire departments have one station each.



Ambulance service is operated out of seven of the 13 fire stations (see Map 2). One of the seven fire stations is the City of Burlington Fire Department station which houses the City of Burlington Fire Department and the Burlington Rescue Squad.

An inventory of major apparatus and equipment of each fire and rescue department in western Racine County is presented in Table 3. The inventory indicates the following:

- Not including the Burlington Rescue Squad, each of the fire departments has at least two pumpers, or engines, which carry a water tank, pump, and hose and may carry other equipment.
- Two departments have aerial trucks: the Village of Waterford Fire and Rescue Department has a 75-foot aerial ladder and the City of Burlington Fire Department has an 85-foot aerial ladder and a 100-foot aerial platform--essentially an aerial ladder with a compartment capable of holding several firefighters at its tip.
- Seven departments have at least one tanker for hauling water to the scene of a fire.
- Six departments have at least one ambulance.
- Six departments have powered extrication equipment.
- One department, the City of Burlington Fire Department, has a training tower. The Department also has a natural gas fire training pit and a liquid propane fire tree for training purposes.

## **Personnel**

The number of firefighters and emergency medical technicians serving on the fire and rescue departments in western Racine County is indicated in Table 4. With the exception of certain full-time staff on the City of Burlington Fire Department, all are part-time personnel who serve without pay or who are paid on a per-call or similar basis.

The City of Burlington Fire Department retains three fire engineers as full-time firefighters. They staff the Burlington fire station around the clock, with relief for leave time provided by a full-time fire inspector, who is also a fire engineer. All other members of the City of Burlington Fire Department are part-time firefighters.

As indicated in Table 5, in five of the fire and rescue departments, the part-time firefighters and EMTs serve without pay. In the other five departments, the part-time firefighters and EMTs receive limited pay, with the payment system varying from department to department, but typically reflecting the number of calls responded to, training sessions attended, or other measures of involvement. In some of the departments, the chief--and, in some cases, other officers--receive an annual stipend for their services.

Table 3

## MAJOR APPARATUS AND EQUIPMENT OF FIRE AND RESCUE DEPARTMENTS IN WESTERN RACINE COUNTY: 1998

Department	Pumpers				Aerial Trucks					Tankers		Ambulance/Rescue Squads		Other Apparatus and Equipment				
	Tank Volume (gallons)	Pump Capacity (gallons per minute)	Year Built	Station Housed at (if more than one station)	Type of Aerial	Tank Volume (gallons)	Pump Capacity (gallons per minute)	Year Built	Station Housed at (if more than one station)	Tank Volume (gallons)	Station Housed at (if more than one station)	Transport Capability (number of patients)	Station Housed at (if more than one station)	Utility/ Equipment Truck (number)	Grass Fire Rig (number)	All-terrain Vehicle (number)	Powered Extrication Tools <sup>a</sup>	Special Training Facilities
City of Burlington Fire Department	750 500 750	1250 750 1500	1980 1997 1989	-- -- --	85 ft. aerial ladder 100 ft aerial platform	300 200	1000 1500	1974 1996	-- --					1			no	•training tower •natural gas fire pit •liquid propane fire tree
Town of Burlington Fire Department	1000 1000 1000 1000	1500 1000 750 1500	1996 1978 1971 1990	No. 1 No. 2 No. 2 No. 3						3250	1				2		no	
Burlington Rescue Squad, Inc.												3-4 3-4 0	-- -- --			1	yes	
Kansasville Fire Department	1000 800 750	1500 830 750	1993 1972 1960	-- -- --						3650	--				1		no	
Town of Raymond Fire and Rescue Department	1000 1000	1250 1000	1994 1978	-- --						2000 1800	-- --	2	--	1	2		yes	
Rochester Volunteer Fire Company, Inc.	1000 3000	1000 750	1981 1996	-- --						3000 2200	-- --	2	--	1	1		yes	
Tichigan Volunteer Fire Company	1000 1000	1250 1250	1997 1989	No. 1 No. 2						2250 4000	No. 1 No. 2			1	1	1	yes	
Union Grove-Yorkville Fire and Rescue Department	2000 900 500	1500 1000 750	1995 1974 1989	-- -- --						3,600	--	2 2 2	-- -- --				yes	
Village of Waterford Fire and Rescue Department	1000 1000	1500 1000	1990 1973	-- --	75 ft aerial ladder	500	1500	1997	--			2 2	-- --	1			no <sup>a</sup>	
Wind Lake Volunteer Fire Company, Inc.	1000 1100 1000 1800	1250 750 1000 750	1998 1978 1983 1978	No. 1 No. 1 No. 2 No. 2						3000	No. 1	2 2	No. 1 No. 2	1			Yes	

<sup>a</sup>The Village of Waterford Fire and Rescue Department has high capacity air bags, but no jaws-of-life.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

Table 4

**NUMBER OF FIREFIGHTERS AND EMTs SERVING IN FIRE AND  
RESCUE DEPARTMENTS IN WESTERN RACINE COUNTY: 1998**

Department	Firefighter only	EMT only	Firefighter and EMT	Total
City of Burlington Fire Department	55	--	--	55
Town of Burlington Fire Department	41	--	--	41
Burlington Rescue Squad, Inc.	--	20	--	20
Kansasville Fire Department	26	2 <sup>a</sup>	2 <sup>a</sup>	30
Town of Raymond Fire and Rescue Department	4	6	18	28
Rochester Volunteer Fire Company, Inc.	15	11	10	36
Tichigan Volunteer Fire Company	21	6 <sup>a</sup>	9 <sup>a</sup>	36
Union Grove-Yorkville Fire and Rescue Department	9	9	19	37
Village of Waterford Fire and Rescue Department	16	14	12	42
Wind Lake Volunteer Fire Company, Inc.	8	5	17	30

<sup>a</sup>EMTs function as first responders.

## NOTES:

The staff levels above indicate the number of firefighters and EMTs as they function on the respective departments. For example, some of the firefighters on the City of Burlington Fire Department and the Town of Burlington Fire Department are also licensed EMTs who serve on the Burlington Rescue Squad; these individuals are reported as firefighters on the City of Burlington Fire Department and the Town of Burlington Fire Department, as appropriate, and as EMTs on the Burlington Rescue Squad.

The staff levels exclude personnel identified as trainees, auxiliaries, junior firefighters, and secretaries.

With the exception of certain staff on the City of Burlington Fire Department, all firefighters and EMTs are part-time personnel who serve without pay or who are paid on a per-call or similar basis. The City of Burlington Fire Department reported 55 firefighters, including 3 full-time fire engineers, one full-time fire inspector who is also a fire engineer, and 51 part-time firefighters.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

Table 5

**PAY ARRANGEMENTS FOR PART-TIME FIREFIGHTERS AND EMTs OF FIRE AND  
RESCUE DEPARTMENTS IN WESTERN RACINE COUNTY: 1998**

Department	Pay Arrangement for Part-time Firefighters and EMTs
City of Burlington Fire Department	No Pay <sup>a</sup>
Town of Burlington Fire Department	Paid based upon formula which reflects number of calls and training sessions
Burlington Rescue Squad, Inc.	No Pay
Kansasville Fire Department	Paid based upon a point system which reflects number of training sessions, meetings, and vehicle inspections
Town of Raymond Fire and Rescue Department	Paid on an hourly basis for fire calls and for training. Paid on a per-call basis for EMS calls
Rochester Volunteer Fire Company, Inc.	No Pay
Tichigan Volunteer Fire Company	No Pay
Union Grove-Yorkville Fire and Rescue Department	Paid based upon a point system which reflects meetings, training, and vehicle inspections
Village of Waterford Fire and Rescue Department	Paid on an hourly basis for calls and training.
Wind Lake Volunteer Fire Company, Inc.	No Pay

<sup>a</sup>City of Burlington Fire Department part-time personnel serve without pay. The Department retains four paid full-time personnel.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

## Activity Levels

As part of the fire and rescue survey, departments were asked to report the number of fire calls and the number of EMS calls responded to in 1997. Fire calls generally include a range of calls including, in addition to calls to actual fires, responses to automatic fire alarms whether or not there is a fire, carbon monoxide alarms, reports of smoke, natural gas leaks, and others. EMS calls generally include calls to personal injury accidents and other medical emergencies. The departments were further asked to distinguish between calls made to their basic service areas and mutual aid and automatic aid calls outside their basic service areas.

The number of calls responded to as reported by the respective fire and rescue departments is presented in Table 6. In reviewing Table 6, the following should be noted:

- Departments which operate strictly as fire departments reported all calls as fire calls—including cases where the department sent a fire engine to a personal injury accident. Conversely, the Burlington Rescue Squad, which operates strictly as an emergency medical service-rescue department, reported all of its calls as EMS calls, including those calls which involve sending a supporting ambulance to the scene of a fire.
- Because of overlapping fire and EMS service areas, the same event may be reported as a call by more than one department. For example, the Burlington Rescue Squad would report sending an ambulance to a personal injury vehicle accident in the Town of Burlington as an EMS call. For the purpose of the survey, the Burlington Fire Department, which routinely sends a fire engine to the scene of a personal injury vehicle accident in the Town of Burlington, would have reported the same call as a fire call.
- The call data pertain to each department's service areas as they existed in 1997. As already indicated, significant changes in emergency medical service areas occurred on the west side of the study area in the first half of 1998. As a result, the EMS call data for the Village of Waterford Fire and Rescue Department for 1997 include calls to the Town of Rochester, the Village of Rochester, and the portion of the Town of Spring Prairie now served by the Rochester Volunteer Fire Company, along with calls to the portion of the Town of Waterford now served by the Wind Lake Volunteer Fire Company.

Table 6

## CALLS RESPONDED TO BY FIRE AND RESCUE DEPARTMENTS IN WESTERN RACINE COUNTY: 1997

Department	Category of Call	Fire Calls	EMS Calls
City of Burlington Fire Department	Calls to Basic Service Area	106	NA
	Mutual Aid and automatic Aid Calls	11	NA
	Total	117	NA
Town of Burlington Fire Department	Calls to Basic Service Area	123	NA
	Mutual Aid and automatic Aid Calls	17	NA
	Total	140	NA
Burlington Rescue Squad, Inc.	Calls to Basic Service Area	NA	NR
	Mutual Aid and automatic Aid Calls	NA	NR
	Total	NA	760
Kansasville Fire Department	Calls to Basic Service Area	70	NA
	Mutual Aid and automatic Aid Calls	55	NA
	Total	125	NA
Town of Raymond Fire and Rescue Department	Calls to Basic Service Area	85	204
	Mutual Aid and automatic Aid Calls	6	3
	Total	91	207
Rochester Volunteer Fire Company, Inc.	Calls to Basic Service Area	61	NA
	Mutual Aid and automatic Aid Calls	46	NA
	Total	107	NA
Tichigan Volunteer Fire Company	Calls to Basic Service Area	48	NA
	Mutual Aid and automatic Aid Calls	35 <sup>a</sup>	NA
	Total	83	NA
Union Grove-Yorkville Fire and Rescue Department	Calls to Basic Service Area	100	541
	Mutual Aid and automatic Aid Calls	21	5
	Total	121	546
Village of Waterford Fire and Rescue Department <sup>b</sup>	Calls to Basic Service Area	65	444
	Mutual Aid and automatic Aid Calls	22	16
	Total	87	460
Wind Lake Volunteer Fire Company, Inc.	Calls to Basic Service Area	58	193
	Mutual Aid and automatic Aid Calls	6	48
	Total	64	241

NA: Not applicable

NR: Not reported

<sup>a</sup>Department estimate

<sup>b</sup>EMS calls for the Village of Waterford Fire and Rescue Department include calls involving ambulance transports only. In providing the call data, the Department reported a call to a personal injury vehicle accident as both a fire call and EMS call in cases where the Department sent a fire engine and an ambulance to the scene.

## Notes:

"Fire" calls generally include a range of calls including, in addition to calls to actual fires, responses to automatic fire alarms whether or not there is a fire, carbon monoxide alarms, reports of smoke, natural gas leaks, and others. "EMS" calls generally include calls to personal injury accidents and other medical emergencies. Departments which operate strictly as fire departments reported all calls as fire calls--including cases where the departments sent an engine to a personal injury accident. The Burlington Rescue Squad reported all of its calls as EMS calls, including those calls which involved sending a supporting ambulance to the scene of a fire.

Where there are overlapping fire and emergency medical service areas, the same event may be reported by more than one department, with the EMS department reporting the event as a EMS call and the fire department reporting the event as a fire call.

The above call data pertain to each department's service areas as they existed in 1997. The EMS call data for the Village of Waterford Fire and Rescue Department for 1997 include calls to the following areas to which the Department no longer provides ambulance service: the Town of Rochester, the Village of Rochester, and a portion of the Town of Spring Prairie--all served by the Rochester Volunteer Fire Company since January 1, 1998--along with the portion of the Town of Waterford served by the Wind Lake Volunteer Fire Company since June 1, 1998.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

As part of the survey, fire and rescue departments were also asked to report response times to fire calls and to EMS calls in 1997, grouping the calls into response time ranges. Response time was defined as the amount of time between the time of dispatch and the time the fire engine or ambulance arrives on the scene. Four departments provided response time data for fire calls in accordance with this definition; the reported fire call response times are set forth in Table 7.<sup>4</sup> Due to insufficient reporting by the departments, no information regarding EMS call response times is presented herein.

**Table 7**  
**RESPONSE TIME FOR FIRE CALLS FOR REPORTING FIRE**  
**DEPARTMENTS IN WESTERN RACINE COUNTY: 1997**

Department	Fire Calls by Response Time (minutes/seconds)					
	Less than 3:00	3:00 to 5:59	6:00 to 8:59	9:00 to 11:59	12:00 or more	Total
City of Burlington Fire Department <sup>a</sup>	106	0	0	0	0	106
Town of Burlington Fire Department <sup>a</sup>	0	80	25	17	1	123
Town of Raymond Fire and Rescue Department <sup>b</sup>	0	10	54	27	0	91
Village of Waterford Fire and Rescue Department <sup>a</sup>	0	17	25	9	3	54

<sup>a</sup>Data pertain to fire calls made to primary service areas--as shown on Map 1--only.

<sup>b</sup>Data pertains to fire calls made to primary fire service area shown on Map 1 and mutual aid calls. The Town of Raymond Fire and Rescue Department reported 85 fire calls to its primary fire service area and 6 mutual aid fire calls in 1997.

Source: City of Burlington Fire Department, Town of Burlington Fire Department, Town of Raymond Fire and Rescue Department, Village of Waterford Fire and Rescue Department, and SEWRPC.

## Fee Structure

As part of the survey, fire and rescue departments were asked to report any fees charged to individuals for services provided. The reported fees are summarized on Tables 8 and 9.

As indicated in Table 8, five departments reported a charge to individuals for responses to vehicle incidents, such as vehicle accidents and vehicle fires, which occur on State trunk highways and, in some cases, other highways. Eight departments

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<sup>4</sup>As part of the survey, departments were asked to report response times to their primary service areas, excluding mutual aid and automatic aid calls. One of the departments--the Town of Raymond Fire and Rescue Department--included mutual aid calls in its response time data. This has minimal effect since the Town of Raymond Fire and Rescue Department reported only six mutual aid fire calls in 1997.

The Rochester Volunteer Fire Company and the Union Grove-Yorkville Fire and Rescue Department provided response time information for fire calls, defining response time as the amount of time from the time of dispatch to the time the fire engine leaves the station. Because that definition of response time excludes travel time to the scene, data for those departments were not included in Table 7.

reported that they would charge a fee to the responsible individuals in the event of a hazardous materials spill. These departments indicated that the amount of the hazardous material response fee would be in accordance with a fee schedule developed by the Racine County Fire Chiefs Association or similar fee structure (see Appendix A).

Each of the departments which provide ambulance service charges a fee for patient transports. The fees indicated in Table 9 are the transport fees charged by the department plus any additional amount charged by a municipality that may be responsible for collecting the fee. The fees pertain to basic transport fees only. There may be additional charges for mileage, supplies, advanced life support procedures, and other procedures. There may be charges for an EMS response not involving a patient transport.

**Table 8**

**FIRE DEPARTMENT CHARGES FOR RESPONSES TO HIGHWAY INCIDENTS AND  
HAZARDOUS MATERIAL SPILLS IN WESTERN RACINE COUNTY: 1998**

Department	Fees Charged for Fire Department Response to Highway Incidents Such as Vehicle Accidents and Vehicle Fires	Fees Charged for Response to Hazardous Material Spills
City of Burlington Fire Department	None	Use Fire Chiefs Association fee schedule <sup>a</sup>
Town of Burlington Fire Department	\$200 on State highways	Use Fire Chiefs Association fee schedule <sup>a</sup>
Burlington Rescue Squad, Inc.	Not Applicable	Not Applicable
Kansasville Fire Department	\$600 per hour on State and County highways	Use Fire Chiefs Association fee schedule <sup>a</sup>
Town of Raymond Fire and Rescue Department	\$300 for ½ hour and \$500 for more than ½ hour on State and County highways	Use a fee schedule similar to Fire Chiefs Association fee schedule <sup>a</sup>
Rochester Volunteer Fire Company, Inc	None	Use Fire Chiefs Association fee schedule <sup>a</sup>
Tichigan Volunteer Fire Company	None	Use Fire Chiefs Association fee schedule <sup>a</sup>
Union Grove-Yorkville Fire and Rescue Department	\$350 on all highways	Use Fire Chiefs Association fee schedule <sup>a</sup>
Village of Waterford Fire and Rescue Department	\$350 on State highways	Use Fire Chiefs Association fee schedule <sup>a</sup>
Wind Lake Volunteer Fire Company, Inc.	None	None

<sup>a</sup>A copy of the Racine County Fire Chiefs Association fee schedule is provided in Appendix A.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

Table 9

**EMS PATIENT TRANSPORT FEES IN WESTERN RACINE COUNTY: 1998**

Transporting Department	Patient Transport Fee (Includes the fee charged by the EMS department plus any additional amount charged by a municipality that may be responsible for collecting the fee)
Burlington Rescue Squad, Inc.	\$175 for residents and nonresidents
Town of Raymond Fire and Rescue Department	Residents--\$200 Nonresidents--\$300
Rochester Volunteer Fire Company, Inc.	Residents--\$225 Nonresidents--\$300
Union Grove-Yorkville Fire and Rescue Department	Resident of the Village of Union Grove or the Town of Yorkville--\$165 Resident of the Town of Dover--\$325 Others--\$365
Village of Waterford Fire and Rescue Department	Patient transport fee depends upon the location of the call: Village of Waterford--\$195 for residents and nonresidents Town of Waterford--\$225 for residents and nonresidents Town of Dover--\$325 for residents and nonresidents
Wind Lake Volunteer Fire Company, Inc.	Patient transport fee depends upon the location of the call: Town of Norway: Residents--\$100 Nonresidents--\$150 Town of Waterford--\$225 for residents and nonresidents

**Notes:**

This table reflects transport fee only. There may be additional charges for mileage, supplies, advanced life support procedures, and other specific procedures. There may be charges for an EMS response not involving a patient transport.

In some cases, different transport fees may apply for individuals covered by Medicare.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

**Miscellaneous Functions*****Dispatching***

The Racine County Sheriff's Department provides dispatching for all of western Racine County except for the City of Burlington. Within the City of Burlington, 911 calls are directed to the City police department, which dispatches the City of Burlington Fire Department and the Burlington Rescue Squad as appropriate. All direct emergency communications to the City of Burlington fire station (eg., telephone calls) are dispatched by the fire department staff on duty.

***Fire Investigation***

Under the Wisconsin Statutes, each fire department is responsible for the investigating the cause of fires. Should an incident exceed the investigative capabilities of a local department, the department may request assistance from the Racine County Fire Investigation Task Force. Created by the Racine County Arson Control Unit in 1995, the Task Force is comprised of members of the local fire and police departments in Racine County having training in fire investigation, the County Sheriff's Department, and the County District Attorney's Office. The task force supplements the investigative capabilities of local fire departments when aid is specifically requested.



The City of Burlington Fire Department reported that it requested assistance from the Racine County Fire Investigation Task Force twice in 1997. Four departments--the Rochester Volunteer Fire Company, the Union Grove-Yorkville Fire and Rescue Department, the Village of Waterford Fire and Rescue Department, and the Wind Lake Volunteer Fire Company--each reported that it requested assistance from the Fire Investigation Task Force once in 1997.

### ***Hazardous Materials Response***

Assistance in responding to emergency events involving the release of hazardous material is available in western Racine County from the City of Racine Fire Department as the State-designated regional emergency response team. Most firefighters in western Racine County have only a rudimentary level of training for dealing with hazardous material situations and the fire departments are generally not equipped to respond to serious hazardous material situations. All of the fire departments in western Racine County reported that they would rely upon the regional emergency response team for assistance in dealing with any significant hazardous materials situation. One department in western Racine County, the Town of Raymond Fire and Rescue Department, reported requesting assistance from the Racine emergency response team in 1997.

The Racine regional response team is part of a statewide network of response teams established under the Wisconsin Statutes. With State financial support for training and equipment, the City of Racine Fire Department serves as regional hazardous materials response team for Racine, Kenosha, and Walworth Counties and part of Jefferson County. The response team is available around the clock to provide assistance, ranging from technical advice to the provision of manpower and equipment, in responding to emergency events involving hazardous materials. The regional response team also provides training to local departments to increase their hazardous material response capabilities.

### ***Public Education***

All of the fire and rescue departments reported that they conduct public safety educational programs. Typically these include school presentations, department open houses, and use of mobile fire safety houses.

### ***Building Fire Safety Inspections***

Department responsibilities for the conduct of public building fire safety inspections are indicated in Table 10. Under the auspices of the respective departments, fire safety inspections are performed by department personnel, outside inspectors, or--in the case of the Village of Waterford Fire and Rescue Department--by a fire inspector hired by the Village of Waterford.

In some cases, department responsibilities for building fire safety inspections differ from the fire service areas shown on Map 1. The Tichigan Fire Company is responsible for building fire safety inspections throughout the entire Town of Waterford. The Town of Burlington Fire Department is responsible for fire inspections in the Town of Burlington, while the Kansasville Fire Department for fire inspections in the Town of Dover; these two departments are not responsible for fire inspections in the portions of their fire service areas which extend beyond Racine County.

Table 10

**DEPARTMENT RESPONSIBILITIES FOR BUILDING FIRE SAFETY  
INSPECTIONS IN WESTERN RACINE COUNTY**

Department	Area for which Department is Responsible for Building Fire Safety Inspections
City of Burlington Fire Department	City of Burlington
Town of Burlington Fire Department	Town of Burlington
Kansasville Fire Department	Town of Dover
Town of Raymond Fire and Rescue Department	Town of Raymond
Rochester Volunteer Fire Company, Inc.	Town of Rochester, Village of Rochester, and Rochester Volunteer Fire Company's service area in the Town of Spring Prairie
Tichigan Volunteer Fire Company	Town of Waterford
Union Grove-Yorkville Fire and Rescue Department	Town of Yorkville and Village of Union Grove
Village of Waterford Fire and Rescue Department	Village of Waterford <sup>a</sup>
Wind Lake Volunteer Fire Company, Inc.	Town of Norway

<sup>a</sup> Actual building fire safety inspections are conducted by a fire safety inspector retained by the Village of Waterford.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

### Department Expenditures and Revenues

As part of the survey, fire and rescue departments were asked to report expenditure and revenue levels for calendar year 1997. For public departments, where information was incomplete or otherwise unavailable from the departments themselves, an effort was made to obtain the expenditure-revenue information from the appropriate municipal clerk. The fire and rescue departments were asked to group expenditures and revenues by major category. Through extensive follow up contacts, an effort was made to ensure as much consistency as practicable in the reporting of expenditures and revenues. Two departments--the Tichigan Volunteer Fire Company and the Rochester Volunteer Fire Company--did not provide expenditure-revenue information. Both departments indicated that information regarding department expenditures and revenues could be made available as needed in future studies of fire and emergency medical services.

The resulting fire and rescue department expenditure and revenue information is presented in Table 11. In reviewing Table 11, the following should be noted:

- Hydrant rental or a similar hydrant-related charge is a major expenditure factor in hydranted areas. On Table 11, hydrant rental is reported as an expenditure for the City of Burlington Fire Department and Village of Waterford Fire and Rescue Department, accounting for 38 percent and 41 percent of the total expenditures, respectively. While hydrant rental is also a factor in the Union Grove-Yorkville area, hydrant rental is not included in the expenditures of the Union Grove-Yorkville Fire and Rescue Department since it is not considered a department expense. Rather, it is an expense of the Village of Union Grove--which paid hydrant rental of about \$93,200 to the Union Grove Water Utility in 1997--and of the property owners in the Town of Yorkville Water Utility District, who paid property taxes of about \$47,000 to that District in 1997 as a fire protection service charge. None of the other departments in western

Racine County reported a hydrant rental or related expenditure.

- One private department, the Burlington Rescue Squad, reported a depreciation expense--\$35,611 in 1997; the other private department which provided expenditure-revenue data, the Wind Lake Volunteer Fire Company, did not. None of the public departments reported a depreciation expense. In the interest of consistency, depreciation was not included in the expenditures for the Burlington Rescue Squad on Table 11.
- Donations and proceeds from fundraising events are not included in the revenues of the public departments since they are not part of the departments' budgets. To the extent that they occur, these revenues are included in the revenues for the two private companies which reported expenditure-revenue data--the Burlington Rescue Squad and the Wind Lake Volunteer Fire Company. Donations to these departments are included in the "other revenue" category on Table 11.<sup>5</sup> The Burlington Rescue Squad reported no revenue from fundraising events in 1997. The Wind Lake Volunteer Fire Company reported fundraising revenue of less than \$100 in 1997, that amount also being included in the "other revenue" category on Table 11.
- Where total revenues exceeded total expenditures (the Burlington Rescue Squad and the Union Grove-Yorkville Fire and Rescue Department), the excess revenue became available for subsequent years' expenses. Where total expenditures exceeded total revenues (the Wind Lake Volunteer Fire Company), the shortfall was covered by previous years' revenues.
- The expenditure-revenue data presented in Table 11 reflect service arrangements which existed in 1997. Significant changes in emergency medical service arrangements occurred on the west side of the study area in the first half of 1998. As a result, the expenditures and revenues indicated for the Village of Waterford Fire and Rescue Department include amounts associated with the provision of emergency medical services to the Town of Rochester, the Village of Rochester, and the portion of the Town of Spring Prairie now served by the Rochester Volunteer Fire Company, along with amounts associated with the provision of emergency medical services to the portion of the Town of Waterford now served by the Wind Lake Volunteer Fire Company.

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<sup>5</sup> Among the donations for the Burlington Rescue Squad are cash contributions from two municipalities--the Town of Burlington and the Town of Brighton. The Burlington Rescue Squad indicated that these are properly classified as donations rather than contractual revenues.

Table 11

## REVENUES AND EXPENDITURES OF EIGHT WESTERN RACINE COUNTY FIRE AND RESCUE DEPARTMENTS: 1997

Expenditures/Revenues Category	City of Burlington Fire Department		Town of Burlington Fire Department		Burlington Rescue Squad, Inc.		Kansasville Fire Department		Town of Raymond Fire and Rescue Department		Union Grove-Yorkville Fire and Rescue Department		Village of Waterford Fire and Rescue Department		Wind Lake Volunteer Fire Company, Inc.		Total for Eight Reporting Departments	
	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent	Dollars	Percent
<b>Expenditures</b>																		
Operating Expenses																		
Salaries, Wages, and Benefits .....	239,948	33.8	16,544	15.8	0	0.0	17,299	12.0	39,474	31.3	47,000	21.7	51,414 <sup>f</sup>	18.5	0	0.0	411,679	22.1
Hydrant Rental .....	272,000	38.2	0	0.0	0	0.0	0	0.0	0	0.0	— <sup>n</sup>	0.0	115,000	41.4	0	0.0	387,000	20.8
Other (Including maintenance, materials, supplies, and any other operating expenses) .....	43,160	6.1	50,542	48.1	49,591	100.0	68,680	47.8	54,849	43.4	107,694	49.7	50,661 <sup>f</sup>	18.2	48,988	21.2	474,165	25.5
Capital Outlay .....	16,923	2.4	37,823	36.1	0	0.0	0	0.0	0	0.0	26,547	12.2	0	0.0	182,561 <sup>u</sup>	78.8	263,854	14.2
Debt Service .....	72,963	10.3	0	0.0	0	0.0	57,689	40.2	31,920	25.3	35,680	16.4	36,000	12.9	0	0.0	234,252	12.6
Reserve .....	65,000	9.2	0	0.0	0	0.0	0	0.0	0	0.0	0	0.0	25,000	9.0	0	0.0	90,000	4.8
<b>Total Expenditures</b>	<b>709,994</b>	<b>100.0</b>	<b>104,909</b>	<b>100.0</b>	<b>49,591<sup>g</sup></b>	<b>100.0</b>	<b>143,668</b>	<b>100.0</b>	<b>126,243</b>	<b>100.0</b>	<b>216,921</b>	<b>100.0</b>	<b>278,075</b>	<b>100.0</b>	<b>231,549</b>	<b>100.0</b>	<b>1,860,950</b>	<b>100.0</b>
<b>Revenues</b>																		
Amount from City, Village, or Town General Fund (Municipal Departments Only) .....	690,131 <sup>c</sup>	97.2	83,605 <sup>d</sup>	79.7	0	0.0	97,758 <sup>i</sup>	68.0	80,191 <sup>m</sup>	63.5	144,200 <sup>o</sup>	48.8	179,468 <sup>s</sup>	64.5	0	0.0	1,275,353	64.7
Amount from Contract or Agreement with City, Village, or Town—Base Contract Amount .....	0	0.0	3,500 <sup>e</sup>	3.3	0	0.0	12,000 <sup>j</sup>	8.4	0	0.0	30,500 <sup>p</sup>	10.3	30,357 <sup>t</sup>	10.9	95,000 <sup>v</sup>	66.3	171,357	8.7
EMS Fees <sup>a</sup> .....	0	0.0	0	0.0	91,780	54.7	0	0.0	25,889	20.5	90,535	30.6	54,782	19.7	21,200	14.8	284,186	14.4
Other Fees <sup>b</sup> .....	0	0.0	760	0.7	0	0.0	9,931 <sup>k</sup>	6.9	9,500	7.5	12,793	4.3	4,900	1.8	0	0.0	37,884	1.9
Two-Percent Fire Insurance Premium Aid .....	15,119	2.1	12,044	11.5	0	0.0	4,867	3.4	5,799	4.6	4,768	1.6	4,617	1.7	11,078	7.7	58,292	3.0
Other State Aid .....	0	0.0	0	0.0	4,570	2.7	0	0.0	4,744	3.8	4,793	1.6	3,951	1.4	5,292	3.7	23,350	1.2
Other Revenues .....	4,744	0.7	5,000 <sup>f</sup>	4.8	71,531 <sup>h</sup>	42.6	19,112 <sup>l</sup>	13.3	120	0.1	8,397 <sup>q</sup>	2.8	0	0.0	10,729 <sup>w</sup>	7.5	119,633	6.1
<b>Total Revenue</b>	<b>709,994</b>	<b>100.0</b>	<b>104,909</b>	<b>100.0</b>	<b>167,881</b>	<b>100.0</b>	<b>143,668</b>	<b>100.0</b>	<b>126,243</b>	<b>100.0</b>	<b>295,986</b>	<b>100.0</b>	<b>278,075</b>	<b>100.0</b>	<b>143,299</b>	<b>100.0</b>	<b>1,970,055</b>	<b>100.0</b>

## NOTES:

The expenditure-revenue data presented on this table reflect service arrangements which existed in 1997. Significant changes in emergency medical service arrangements occurred on the west side of the study area in the first half of 1998. As a result, the expenditures and revenues indicated for the Village of Waterford Fire and Rescue Department include amounts associated with the provision of emergency medical services to the Town of Rochester, the Village of Rochester, and the portion of the Town of Spring Prairie now served by the Rochester Volunteer Fire Company, along with amounts associated with the provision of emergency medical services to the portion of the Town of Waterford now served by the Wind Lake Volunteer Fire Company.

Donations and proceeds from fundraising events are not included in the revenues of the public departments since they are not part of the departments' budgets. To the extent that they occur, these revenues are included in the revenues for the two private companies which reported expenditure-revenue data—the Burlington Rescue Squad and the Wind Lake Volunteer Fire Company. Donations to these departments are included in the "Other Revenues" category on this table. The Burlington Rescue Squad reported no revenues from fundraising events; the Wind Lake Volunteer Fire Company reported fundraising event revenue of less than \$100, that amount also being included in the "Other Revenues" category.

Two departments—the Rochester Volunteer Fire Company and the Tichigan Volunteer Fire Company—did not provide expenditure-revenue data. Both departments indicated that information regarding department expenditures and revenues could be made available as needed in future studies of fire and emergency medical services.

Table 11 Footnotes

<sup>a</sup>Includes all EMS fee revenue to the department, whether collected by the department or by a municipality served by the department.

<sup>b</sup>Consists primarily of fees for fire department responses to vehicle accidents and vehicle fires on highways. In some cases, includes reimbursement by the State for responses to such incidents on State highways.

<sup>c</sup>From the City of Burlington.

<sup>d</sup>From the Town of Burlington.

<sup>e</sup>From the Town of Spring Prairie.

<sup>f</sup>Includes sale of equipment and insurance reimbursement.

<sup>g</sup>Does not include \$35,611 depreciation reported by the Burlington Rescue Squad in 1997.

<sup>h</sup>Includes interest income (\$17,386); bad debt recovery (\$2,317); sale of equipment (\$8,200); donations from the Town of Brighton (\$2,500), the Town of Burlington (\$7,500), and the United Way (\$10,000); miscellaneous donations and bequests (\$23,452); and other miscellaneous income (\$176).

<sup>i</sup>From the Town of Dover.

<sup>j</sup>From the Town of Brighton.

<sup>k</sup>Comprised primarily of fees for responses to highway incidents; also includes per call revenues from the State for services to the Bong Recreation area and per call revenues for services in the Town of Brighton.

<sup>l</sup>Payments by the State for the services to State institutions in the Town of Dover.

<sup>m</sup>From the Town of Raymond.

<sup>n</sup>Hydrant rental is not considered a fire department expense and is not included here. The Village of Union Grove paid hydrant rental of \$93,196 to the Union Grove Water Utility in 1997. Property owners in the Town of Yorkville Water Utility District paid property taxes of about \$47,000 to the District in 1997 as a fire protection service charge for the use of hydrants and mains.

<sup>o</sup>Includes a \$88,900 from the Town of Yorkville and \$55,300 from the Village of Union Grove.

<sup>p</sup>From the Town of Dover

<sup>q</sup>Interest income.

<sup>r</sup>Includes expenses related to the Village of Waterford building fire safety inspector, who is a Village of Waterford employee.

<sup>s</sup>From the Village of Waterford.

<sup>t</sup>Combined amounts from the Towns of Dover, Rochester, and Waterford and the Village of Rochester.

<sup>u</sup>Reflects one-time capital outlay for building addition.

<sup>v</sup>From the Town of Norway.

<sup>w</sup>Includes donations, interest, insurance income, sale of assets, and other revenues.

Source: Western Racine County Fire and Rescue Departments and SEWRPC.

As indicated in Table 11, the combined revenues for the eight reporting fire and rescue departments totaled about \$2.0 million dollars in 1997. The major component revenue sources include the following:

- About \$1,275,000, or 65 percent of the total revenue, was comprised of city, village, or town general funds financing the operation of municipal fire and rescue departments.
- About \$171,000, or 9 percent of the total revenue, was derived from contracts or agreements for the provision of services to cities, villages, or towns—including base contract or agreement amounts, but excluding any amounts charged on a per call basis.
- About \$284,000, or 14 percent of the total revenue, was comprised of EMS fees. This includes all EMS fee revenue to the departments, whether collected by the departments or by municipalities served by the departments.
- About \$38,000, or 2 percent of the total revenue, was comprised of other fees--primarily, fees for fire department responses to vehicle accidents and vehicle fires on highways.
- About \$201,000, or 10 percent of the total revenue, was derived from other sources--including two-percent State fire insurance premium aid, other State aid, and miscellaneous revenue such as donations (in the case of private departments), interest income, and proceeds from the sale of assets.

As further indicated in Table 11, the combined expenditures for the eight reporting fire and rescue departments totaled about \$1.9 million in 1997. The major component expenditures include the following:

- About \$1,273,000, or 68 percent of the total expenditures, was comprised of operating expenditures. This includes \$412,000 for salaries, wages, and benefits--with the City of Burlington Fire Department accounting for more than half of this amount; \$387,000 for hydrant rental for the City of Burlington Fire Department and the Village of Waterford Fire and Rescue Department;<sup>6</sup> and \$474,000 for other operating expenses.
- About \$264,000, or 14 percent of the total expenditures, was comprised of capital outlays.
- About \$234,000, or 13 percent of the total expenditures, was comprised of debt service.
- About \$90,000, or 5 percent of the total expenditures, was comprised of amounts specifically reported as payments to reserves.

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<sup>6</sup>As noted above, while hydrant rental is also a cost factor in the Union Grove-Yorkville area, because it is expense of the Village of Union Grove and the property owners in the Town of Yorkville Water Utility District, it is not included in the expenditures of the Union Grove-Yorkville Fire and Rescue Department.

When reporting expenditures for public services, it is common to report per capita as well as total amounts. Department per capita expenditure levels could not be included in this report, however, due to the overlapping fire and emergency medical service areas of the fire and rescue departments in western Racine County and the inability of departments to disaggregate fire and emergency medical expenditures.

## **EXISTING AND PROJECTED SERVICE AREA POPULATION, HOUSEHOLD, AND EMPLOYMENT LEVELS**

The previous portion of this report provided a description of existing arrangements for the provision of fire and emergency medical services in western Racine County. The future need for fire and emergency medical services in western Racine County depends upon a number of factors, including, importantly, changes in the size and distribution of population, households, and employment opportunities. To assist in the assessment of future service needs, projected future population, household, and employment levels developed by the Commission under the regional planning program are presented in this section.

Because of the uncertainty surrounding future population, household, and employment levels, the Commission has developed several alternative growth scenarios for the Region. These scenarios differ in terms of the magnitude and distribution of future population, households, and employment and attendant urban development in the Region. Population, household, and employment levels anticipated under two such scenarios are presented herein. One of these is the recommended year 2020 regional land use plan, which reflects "intermediate" level population, household, and employment projections for the Region, emphasizing a centralized--with respect to the major urban centers of the Region--development pattern. The other scenario--the "high-growth decentralized" scenario--reflects significantly faster growth in population, households, and employment and a continued decentralization of development away from the major urban centers.<sup>7</sup> The intermediate-growth centralized projections are considered most likely to occur for the Region as a whole through the year 2020. The high-growth decentralized projections represent reasonable upper extremes which could potentially be reached in subareas of the Region, and in the Region as a whole, during the forecast period.

Tables 12 to 14 present projected population, household, and employment levels envisioned under the aforementioned growth scenarios for the fire service areas shown on Map 1.<sup>8</sup> Under an intermediate growth scenario, the combined resident population of all fire service areas shown on Map 1--including the areas extending into Kenosha and Walworth County--would increase

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<sup>7</sup>For detailed documentation, refer to SEWRPC Technical Report No. 10 (3rd Edition), The Economy of Southeastern Wisconsin, October 1995; SEWRPC Technical Report No. 11 (3rd Edition), The Population of Southeastern Wisconsin, October 1995; and SEWRPC Planning Report No. 45, A Regional Land Use Plan for Southeastern Wisconsin: 2020, December 1997.

<sup>8</sup>On Tables 12 to 14, the projected population, household, and employment levels for the City of Burlington Fire Department are combined with those of the Town of Burlington Fire Department because of the potential for change in municipal boundaries over the forecast period.

from about 44,400 persons in 1990 to about 54,200 persons in the year 2020, an increase of about 9,800 persons, or 22 percent. Under a high growth scenario, the population would increase to 73,300 persons by the year 2020, an increase of 28,900 persons, or 65 percent, over 1990 (see Table 12). Under both scenarios, the number of households, or occupied housing units, in this area would increase faster than the population, with a continued decrease in the average household size anticipated in both cases (see Table 13). The number of jobs in this area would increase from 18,500 in 1990 to 24,400 in the year 2020 under the intermediate growth scenario and to 30,700 in the year 2020 under a high growth scenario--or by 32 percent and 66 percent, respectively (see Table 14).

Tables 15 to 17 present corresponding projected population, household, and employment levels for the emergency medical service areas shown on Map 2, under the same growth scenarios.

**Table 12**

**POPULATION IN WESTERN RACINE COUNTY AND ENVIRONS BY FIRE SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Fire Service Area (See map 1)	Population						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
City of Burlington and Town of Burlington Fire Departments	14,908	2,842	19.1	17,750	8,281	55.5	23,189
Kansasville Fire Department	4,163	242	5.8	4,405	1,853	44.5	6,016
Town of Raymond Fire and Rescue Department	3,243	90	2.8	3,333	292	9.0	3,535
Rochester Volunteer Fire Company, Inc.	3,362	610	18.1	3,972	2,126	63.2	5,488
Tichigan Volunteer Fire Company	2,447	1,178	48.1	3,625	3,157	129.0	5,604
Union Grove-Yorkville Fire and Rescue Department	6,570	1,499	22.8	8,069	4,512	68.7	11,082
Village of Waterford Fire and Rescue Department	4,234	1,731	40.9	5,965	5,429	128.2	9,663
Wind Lake Volunteer Fire Company, Inc.	5,493	1,621	29.5	7,114	3,257	59.3	8,750
<b>Total</b>	<b>44,420</b>	<b>9,813</b>	<b>22.1</b>	<b>54,233</b>	<b>28,907</b>	<b>65.1</b>	<b>73,327</b>

Source: SEWRPC.



Table 13

**HOUSEHOLDS IN WESTERN RACINE COUNTY AND ENVIRONS BY FIRE SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Fire Service Area (See map 1)	Households						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
City of Burlington and Town of Burlington Fire Departments	5,457	1,537	28.2	6,994	3,492	64.0	8,949
Kansasville Fire Department	1,231	135	11.0	1,366	637	51.7	1,868
Town of Raymond Fire and Rescue Department	1,076	114	10.6	1,190	135	12.5	1,211
Rochester Volunteer Fire Company, Inc.	1,112	316	28.4	1,428	870	78.2	1,982
Tichigan Volunteer Fire Company	847	466	55.0	1,313	1,198	141.4	2,045
Union Grove-Yorkville Fire and Rescue Department	2,275	736	32.4	3,011	1,737	76.4	4,012
Village of Waterford Fire and Rescue Department	1,523	818	53.7	2,341	2,121	139.3	3,644
Wind Lake Volunteer Fire Company, Inc.	1,817	696	38.3	2,513	1,262	69.5	3,079
<b>Total</b>	<b>15,338</b>	<b>4,818</b>	<b>31.4</b>	<b>20,156</b>	<b>11,452</b>	<b>74.7</b>	<b>26,790</b>

Source: SEWRPC.

Table 14

**EMPLOYMENT IN WESTERN RACINE COUNTY AND ENVIRONS BY FIRE SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Fire Service Area (See map 1)	Employment (Jobs)						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
City of Burlington and Town of Burlington Fire Departments	8,577	1,872	21.8	10,449	3,357	39.1	11,934
Kansasville Fire Department	2,115	971	45.9	3,086	1,017	48.1	3,132
Town of Raymond Fire and Rescue Department	1,334	1,359	101.9	2,693	2,575	193.0	3,909
Rochester Volunteer Fire Company, Inc.	643	7	1.1	650	57	8.9	700
Tichigan Volunteer Fire Company	467	27	5.8	494	96	20.6	563
Union Grove-Yorkville Fire and Rescue Department	3,124	1,112	35.6	4,236	3,702	118.5	6,826
Village of Waterford Fire and Rescue Department	1,362	536	39.4	1,898	1,062	78.0	2,424
Wind Lake Volunteer Fire Company, Inc.	876	62	7.1	938	307	35.0	1,183
<b>Total</b>	<b>18,498</b>	<b>5,946</b>	<b>32.1</b>	<b>24,444</b>	<b>12,173</b>	<b>65.8</b>	<b>30,671</b>

Source: SEWRPC.

Table 15

**POPULATION IN WESTERN RACINE COUNTY AND ENVIRONS BY EMERGENCY MEDICAL SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Emergency Medical Service Area (See map 2)	Population						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
Burlington Rescue Squad Inc	15,507	2,694	17.4	18,201	8,108	52.3	23,615
Town of Raymond Fire and Rescue Department	3,243	90	2.8	3,333	292	9.0	3,535
Rochester Volunteer Fire Company, Inc.	3,362	610	18.1	3,972	2,126	63.2	5,488
Union Grove-Yorkville Fire and Rescue Department	9,666	1,687	17.5	11,353	6,280	65.0	15,946
Village of Waterford Fire and Rescue Department	5,195	1,822	35.1	7,017	5,590	107.6	10,785
Wind Lake Volunteer Fire Company, Inc.	7,399	2,737	37.0	10,136	6,299	85.1	13,698
<b>Total</b>	<b>44,093</b>	<b>9,648</b>	<b>21.9</b>	<b>53,741</b>	<b>28,704</b>	<b>65.1</b>	<b>72,797</b>

Note: Sum of departments may not equal total because of overlapping service areas.

Source: SEWRPC.

Table 16

**HOUSEHOLDS IN WESTERN RACINE COUNTY AND ENVIRONS BY EMERGENCY MEDICAL SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Emergency Medical Service Area (See map 2)	Households						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
Burlington Rescue Squad Inc	5,651	1,507	26.7	7,158	3,445	61.0	9,096
Town of Raymond Fire and Rescue Department	1,076	114	10.6	1,190	135	12.5	1,211
Rochester Volunteer Fire Company, Inc.	1,112	316	28.4	1,428	870	78.2	1,982
Union Grove-Yorkville Fire and Rescue Department	3,153	836	26.5	3,989	2,338	74.2	5,491
Village of Waterford Fire and Rescue Department	1,822	871	47.8	2,693	2,177	119.5	3,999
Wind Lake Volunteer Fire Company, Inc.	2,481	1,126	45.4	3,607	2,422	97.6	4,903
<b>Total</b>	<b>15,205</b>	<b>4,769</b>	<b>31.4</b>	<b>19,974</b>	<b>11,379</b>	<b>74.8</b>	<b>26,584</b>

Note: Sum of departments may not equal total because of overlapping service areas.

Source: SEWRPC.

Table 17

**EMPLOYMENT IN WESTERN RACINE COUNTY AND ENVIRONS BY EMERGENCY MEDICAL SERVICE AREA:  
EXISTING 1990, 2020 RECOMMENDED LAND USE PLAN, AND 2020 HIGH-GROWTH DECENTRALIZED PLAN**

Emergency Medical Service Area (See map 2)	Employment (Jobs)						
	Existing 1990	Recommended Plan (Intermediate-Growth Centralized Plan)			High-Growth Decentralized Plan		
		Increment: 1990-2020		Total 2020	Increment: 1990-2020		Total 2020
		Number	Percent		Number	Percent	
Burlington Rescue Squad Inc.	8,640	1,862	21.6	10,502	3,347	38.7	11,987
Town of Raymond Fire and Rescue Department	1,334	1,359	101.9	2,693	2,575	193.0	3,909
Rochester Volunteer Fire Company, Inc.	643	7	1.1	650	57	8.9	700
Union Grove-Yorkville Fire and Rescue Department	4,879	2,102	43.1	6,981	4,738	97.1	9,617
Village of Waterford Fire and Rescue Department	1,686	523	31.0	2,209	1,049	62.2	2,735
Wind Lake Volunteer Fire Company, Inc.	1,216	93	7.6	1,309	407	33.5	1,623
<b>Total</b>	<b>18,384</b>	<b>5,946</b>	<b>32.3</b>	<b>24,330</b>	<b>12,173</b>	<b>66.2</b>	<b>30,557</b>

Note: Sum of departments may not equal total because of overlapping service areas.

Source: SEWRPC.

## CONCLUDING REMARKS

This report presents the results of an inventory, or data collection and reporting effort, intended to provide uniform, up-to-date information on existing arrangements for the provision of fire protection and emergency medical services in western Racine County, consisting of the portion of Racine County located west of IH 94. The work was undertaken by the Regional Planning Commission in response to a request from the local units of government in western Racine County and the Racine County Department of Planning and Development. Through this report, the inventory findings are made available to the local units of government and fire and rescue departments in western Racine County for use as they deem appropriate. The report should increase the understanding of existing fire and rescue service arrangements and, in so doing, may facilitate further study of, and/or planning for, these vital services by local units of government and their fire and rescue departments, either individually or in cooperation with one another.

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## **APPENDIX**

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# Appendix A

TO: Racine County Fire Chief  
 FROM: Mutual Aid Committee  
 SUBJ: Standardized Equipment & Labor Rates  
 DATE: November 11 1993

The mutual aid committee recommends the following equipment and labor rates for reimbursable activities. Mutual aid events will be in accordance with applicable mutual aid contracts and will not be considered reimbursable activities.

Engine	750 GPM or larger	\$200 per hour
Engine	250 GPM to 750 GPM	\$100 per hour
Aerial Apparatus		\$200 per hour
Tanker	1000 gallons or more capacity	\$200 per hour
Ambulance/Rescue Squad		\$100 per hour
Brush/Grass Vehicle		\$100 per hour
Command Vehicle		\$ 50 per hour
Boat/Hover Craft		\$ 75 per hour
Special Equipment Van		\$100 per hour
Utility vehicles	pick up truck/van	\$ 50 per hour
Haz Mat Trailer/Vehicle		\$250 per hour
Breathing Air Compressor		\$200 per hour
Portable Generators	8 KW or larger	\$100 per hour

**Labor Rates :** Labor rates shall be based on actual labor costs, including fringe benefits, in accordance with labor contracts, labor agreements, or salary scales of the serving jurisdiction. Where there are no established labor rates for the serving jurisdiction the following minimum rates are recommended.

Firefighter	\$10.00 per hour
MPO	\$11.00 per hour
Lieut.	\$12.10 per hour
Capt.	\$13.31 per hour
Assistant Chief/Battalion Chief/ Division Chief	\$14.64 per hour
Chief	\$16.10 per hour