

# Verona Fire District

## Annual Report

2009



February 2010

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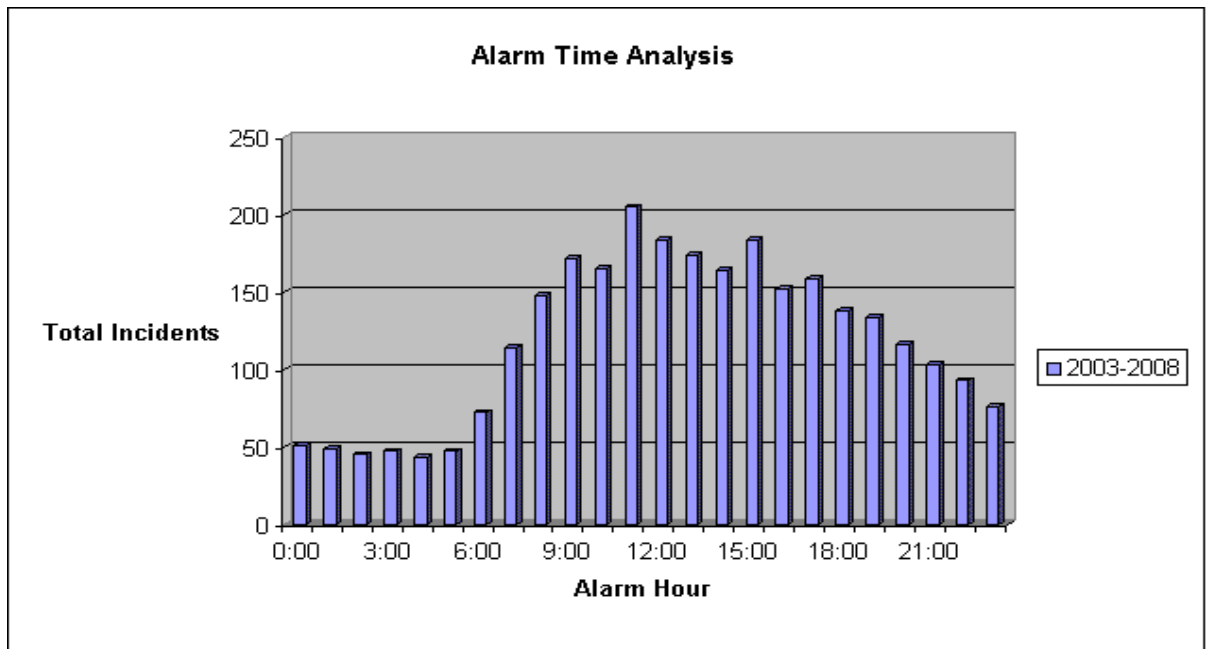
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### Alarm Time Analysis:

The alarm time analysis examines what time of the day that majority of the incidents take place. The alarm times are based on a 24-hour clock as a standard. Several years of information has been compiled from 2003 to 2009. The information is displayed in Chart 1.

**Chart 1 Alarm Time Analysis**

Hour	2003	2004	2005	2006	2007	2008	2009	Totals
0:00	6	9	10	3	9	7	7	51
1:00	7	6	8	7	9	10	2	49
2:00	3	5	8	8	9	6	6	45
3:00	5	4	9	8	4	7	10	47
4:00	7	5	7	8	2	6	8	43
5:00	2	2	8	4	13	7	11	47
6:00	14	15	10	10	6	11	6	72
7:00	8	18	20	12	24	18	14	114
8:00	7	19	10	15	27	35	35	148
9:00	7	18	23	18	38	36	32	172
10:00	18	17	26	23	23	28	30	165
11:00	18	22	31	21	36	38	39	205
12:00	23	20	20	16	28	44	33	184
13:00	16	12	29	20	29	36	32	174
14:00	13	14	22	24	30	28	33	164
15:00	17	25	25	24	36	30	27	184
16:00	22	19	21	18	26	20	26	152
17:00	17	21	27	18	21	38	17	159
18:00	17	20	25	22	18	17	19	138
19:00	14	17	22	26	18	18	19	134
20:00	11	18	8	17	24	21	17	116
21:00	8	20	15	12	22	11	15	103
22:00	9	12	15	11	21	14	11	93
23:00	11	8	16	8	14	9	10	76





**Incidents by District:**

The Verona Fire Department protects the populations in the City of Verona, Town of Verona and a small portion of the Town of Springdale. In addition the Verona Fire Department is part of MABAS 115 and has auto and mutual aid agreements with area departments. We also respond to emergency requests in several different jurisdictions as well as utilize several other departments if needed. Chart 3 shows the districts and the number of incidents in those districts.

**Chart 3**

District	Count (2008)	%	Count (2009)	%
Village of Belleville	0	0.00	6	1.31
City of Verona	291	58.79	293	63.83
City of Fitchburg	59	11.92	33	7.19
Madison	0	0.00	1	0.22
Middleton	0	0.00	1	0.22
Town of Montrose	6	1.21	7	1.53
Mount Horeb	3	0.61	4	0.87
Village of Oregon	10	2.02	5	1.09
Town of Rutland	1	0.20	0	0.00
Town of Springdale	6	1.21	9	1.96
Town of Albion	1	0.20	0	0.00
Town of Blooming Grove	1	0.20	0	0.00
Town of Brooklyn	0	0.00	1	0.22
Town of Cross Plains	1	0.20	0	0.00
Town of Madison	0	0.00	1	0.22
Town of Dunn	1	0.20	0	0.00
Town of Oregon	3	0.61	3	0.65
Town of Springfield	0	0.00	1	0.22
Town of Verona	112	22.63	94	20.48

Total Incidents                      495                                      459

District	Count (2008)	%	Count (2009)	%
City of Verona	291	58.79	293	63.83
Town of Springdale	6	1.21	9	1.96
Town of Verona	112	22.63	94	20.48
Other	86	17.37	63	13.73

Total Incidents                      495                                      459

The bottom summarizes the responses into the 3 municipalities protected by the Verona Fire Department and the amount of calls outside the district. The responses are compared to the results for 2008.

### **Incident Type Summary Report:**

Chart 4 Compares types of calls for current and previous years.

<b>Chart 4 Incident Type Summary Report</b>	<b>2008</b>	<b>2009</b>
<b>Incident Type</b>		
<b>Fire</b>	46	46
<b>Overpressure, Rupture, Explosion, Overheat (no fire)</b>	5	2
<b>Rescue &amp; Emergency Medical Service Incident</b>	207	195
<b>Hazardous Condition (No Fire)</b>	25	14
<b>Service Call</b>	21	29
<b>Good Intent Call</b>	93	82
<b>False Alarm &amp; False Call</b>	94	90
<b>Severe Weather &amp; Natural Disaster</b>	3	1
<b>Special Incident</b>	1	0
<b>Total incident Count</b>	495	459

The fire category represents any type of fire. The Rescue & Emergency Medical Service Incident includes EMS assists, motor vehicle accidents, extrication, lock-ins, person in an elevator and rescue or EMS standbys. Hazardous conditions are spills and leaks without fire, electrical and unsafe building conditions. Service calls are water problems, leak or breaks, odor removal, move ups and standbys. Good intent calls are cancelled enroute, controlled burns and nothing found. False alarms are system malfunctions such as fire alarms, CO detectors and sprinklers. The special incident type was a citizen complaint call.

### **Inspections:**

Inspections are conducted twice a year in accordance with state requirements. Inspections are proactive approach to community safety. If incidents can be prevented it reduces the sociological and economical impact on its respective communities. Chart 5 shows the number of inspections completed annually.

### Chart 5 Annual Inspections

Year	#	Total	% change
2002	370	740	0.00
2003	422	844	14.05
2004			NA
2005	403	806	-4.50
2006	418	836	3.72
2007	444	888	6.22
2008	479	958	7.88
2009	480	960	0.21

The percent change is calculated using the comparison to the previous years totals.

### Response Times by District and Shift:

The benchmark used by every fire agency is NFPA 1710 or 1720 in relation to staffing and response times. Response times are defined as the time it takes to get the first apparatus on location from the time the alarm is sounded. NFPA 1720 standard relates to primarily volunteer departs such as the Verona Fire Department. There is a part time Fire Chief, 4 full time fire staff and 25 Paid on call staff. The full time firefighters make up 14% of the total staff. The full time staff helps in meeting the NFPA 1720 standard. The Paid on call staff compliment the full time staff and are responsible for covering responses after business hours. Chart 6 shows the staffing and response time requirements for NFPA 1720.

**Chart 6 NFPA 1720 Staffing and Response Time**

Demand Zone	Demographics	Staffing and response time	Percentage
<b>Special Risks</b>	AHJ	AHJ	90
<b>Urban</b>	>1000 people/square mile	15 personnel/ 9 minutes	90
<b>Suburban</b>	500-1000 people/square mile	10 personnel/ 10 minutes	80
<b>Rural</b>	<500 people/ square mile	6 personnel/ 14 minutes	80
<b>Remote</b>	travel distance > 8 miles	4 personnel	90

The City of Verona is considered as urban, the Town of Verona is considered rural and the Town of Springdale is remote for our purposes. This charts shows the number of the personnel should be on location and in a specific amount of time and the percentage of incidents that this standard

should occur. Chart 7 shows the current response times for the 3 municipalities for shift 1 (full time staffed) and shift 2 (POC coverage).

**Chart 7 Average Response Time Analysis By Shift and District 2009**

District	Shift	# of Calls	Ave. Time
City of Verona	1	158	3min 10sec
	2	127	8min 9sec
Town of Verona	1	26	5min 19sec
	2	59	10min 20sec
Town of Springdale	1	0	NA
	2	5	11min 36sec
<b>Ave. Shift 1 Total</b>			4min 7sec
<b>Ave. Shift 2 Total</b>			9min 27sec

Shift 1 - Monday to Friday 0800 - 1600hours

Shift 2- Monday to Friday 1600-0800hours and all day on weekends

The Verona Fire Department is able to barely meet the response time requirements in all 3 jurisdictions but cannot meet the staffing requirements. With the use of auto and mutual aid agreements through MABAS 115 the staffing levels are being addressed but still we are unable to meet the initial staffing levels as set forth by NFPA 1720. This results in large safety issues in regards to the firefighters and residents within the district. Many things need to be in place prior to an offensive interior attack can be conducted. It is very clear that with an initial staffed crew at the station that response times are considerable decreased in half or more. Overall average of response times for Shift 2 shows that we are out of compliance with NFPA 1720 for response times with in the City of Verona. Response times and staffing are the highest priority for the Verona Fire Department.

**Totals Calls by Year:**

Chart 8 shows how call volumes have increased, decreased or stayed the same over several years. The bar graph estimates the call volumes for 2010 and 2011 for averages calculated from previous years. There has been a 114% increase in call volume since 2000 to 2009. Staffing levels have increased by 1 firefighter on September 1, 2009. Paid on call staffing levels have decreased over the past several years and recruitment and retention is more difficult do to additional demands and requirements of new recruits. The Verona Fire Department has recently brought on 4 new recruits for the beginning of 2010. Just to put into perspective the dedication it takes to be a Paid on call member there was a total of 3,678.50 training hours taken by 30 personnel in 2009. The average training hours equals 123 hours per staff member per year. That does not include the hours responding to incidents.

Along with calls and the required inspections staff members reach out to the community and their children in providing fire safety presentations and tours. In 2009, 237 staff hours were devoted to fire preventions and tours.

Chart 8 Call Volumes

Year	# Of Calls	% Change
2000	215	0.00
2001	216	0.47
2002	230	6.48
2003	280	21.74
2004	349	24.64
2005	417	19.48
2006	353	-15.35
2007	489	38.53
2008	495	1.23
2009	459	-7.27

Average 9.30

