

DEERFIELD – BANNOCKBURN FIRE PROTECTION DISTRICT

JAMES QUINN, FIRE CHIEF

THOMAS FAHEY, PRESIDENT



2009 ANNUAL REPORT

EXECUTIVE SUMMARY

The purpose of this report is to provide the Fire Chief, Board of Trustees, and the citizens of the community with statistical data of the emergency and non-emergency operations of the Deerfield-Bannockburn Fire Protection District (Fire District). The Fire District provides services to the Villages of Deerfield, Bannockburn, Riverwoods, as well as areas of unincorporated Lake County. The Fire District's response area covers approximately 8.3 square miles and has a residential population of 23,000. Because of the corporate and mercantile areas within the Fire District, the population doubles during daytime business hours. The Fire District is covered by two fire stations and employs forty-two sworn personnel, along with three civilian staff employees. In 2009, requests for fire and emergency services decreased by four percent, totaling 2,583 responses. This is the second year that total responses for the year decreased from that of the preceding year. Emergency medical incidents required 1,430 responses, which resulted in 1,514 patients being treated and 991 patients being transported to local hospitals.

This report also includes activities related to the roles of the Fire Prevention Bureau and the Training Division. These two divisions are responsible for non-emergency services that include: code enforcement, public education, fire investigation, plan review, department training needs, certifications, and special response teams.

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INCIDENT SUMMARY

Prepared by Battalion Chief James Philip

SUMMARY

This is a detailed summary of incidents and their nature in the following categories:

**Fire Response
Emergency Medical Services (EMS)
Mutual Aid**

The Fire District encompasses an area of 8.3 square miles, with a population of 23,000. This population doubles during business hours. The Fire District is covered by two fire stations staffed twenty-four hours a day. The Fire District employs forty-two sworn personnel, and three civilian employees provide additional support.

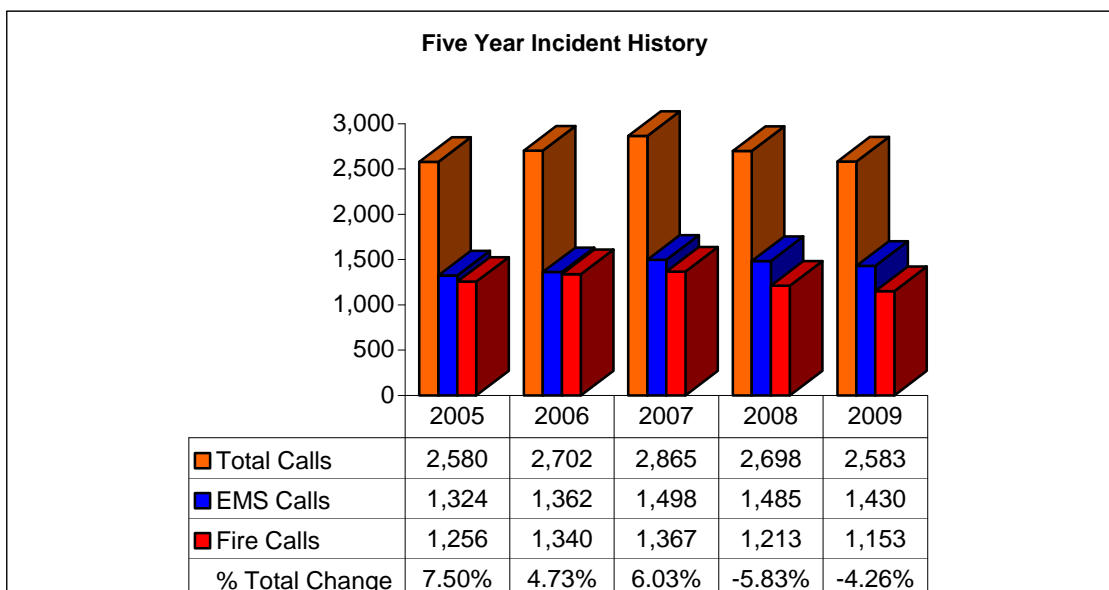
Activity Totals

Fire Calls 1,153	Mutual Aid Received 345
EMS Calls 1,430	Mutual Aid Given 360

Total Calls 2,583
Total Fire Loss \$101,181

Requests for fire and emergency services totaled 2,583 as compared to 2,697 in 2008.

Fifty-four percent of all responses were to residential properties. Rescue and emergency medical services accounted for 55 percent of the total call volume.



FIRE RESPONSE

Fire incidents accounted for 44 percent of the total call volume and nearly half of these were false alarms. Calls categorized as actual incidents involving fire accounted for three percent of the total call volume.

As can be expected, the peak time of day when calls for service were requested was between the hours of 6:00 A.M. and 9:00 P.M. In contrast, the fewest calls for service were requested during the hours of 1:00 A.M. to 5:00 A.M.

Fire Calls	Number
Alarm Systems	606
Building Fires	36
Vehicle Fires	11
Investigations	473
Other fires, Rubbish, Dumpster, Misc.	23
Total	1,153

EMERGENCY MEDICAL SERVICES

During 2009, the Fire District responded to 1,430 EMS calls which resulted in 1,514 patient contacts. Medical emergencies, such as difficulty breathing, stroke, and diabetic events, accounted for 44 percent of all EMS calls. Fifty-four percent of the patients were treated at Highland Park Hospital.

Patient Contacts

Reason	Patients
Medical Emergencies	674
Trauma	228
Motor Vehicle Accident	344
Cardiac	105
Other	66
Overdose	17
Invalid Assist	80
Total	1,514

Transport Destinations

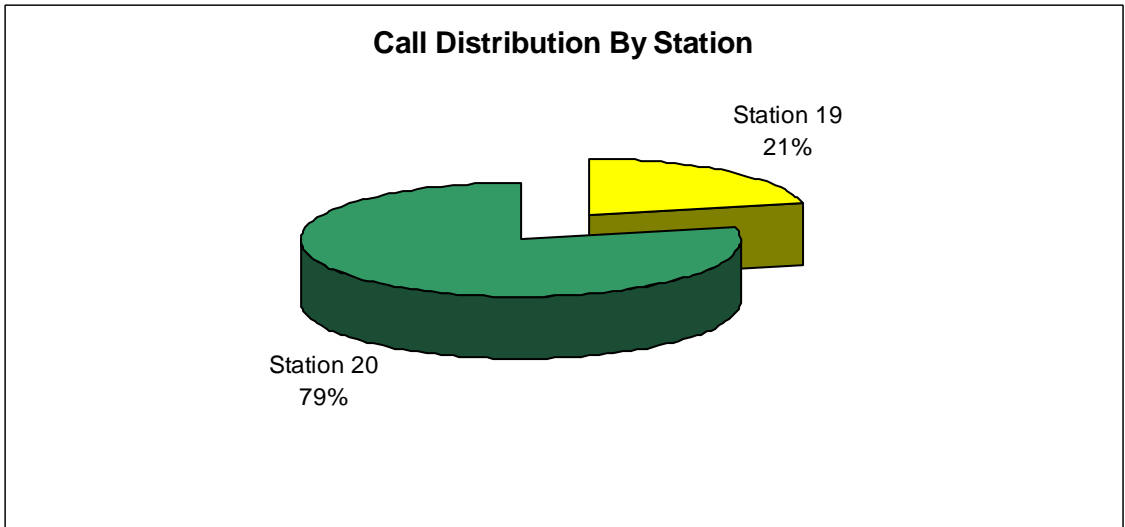
Hospital	Number	Percentage
Highland Park	825	54.49%
No Transport	523	34.54%
Glenbrook	92	6.08%
Lake Forest	64	4.23%
Lutheran General	8	0.53%
Condell	1	0.07%
Evanston	1	0.07%
Total	1,514	100%

MUTUAL AID

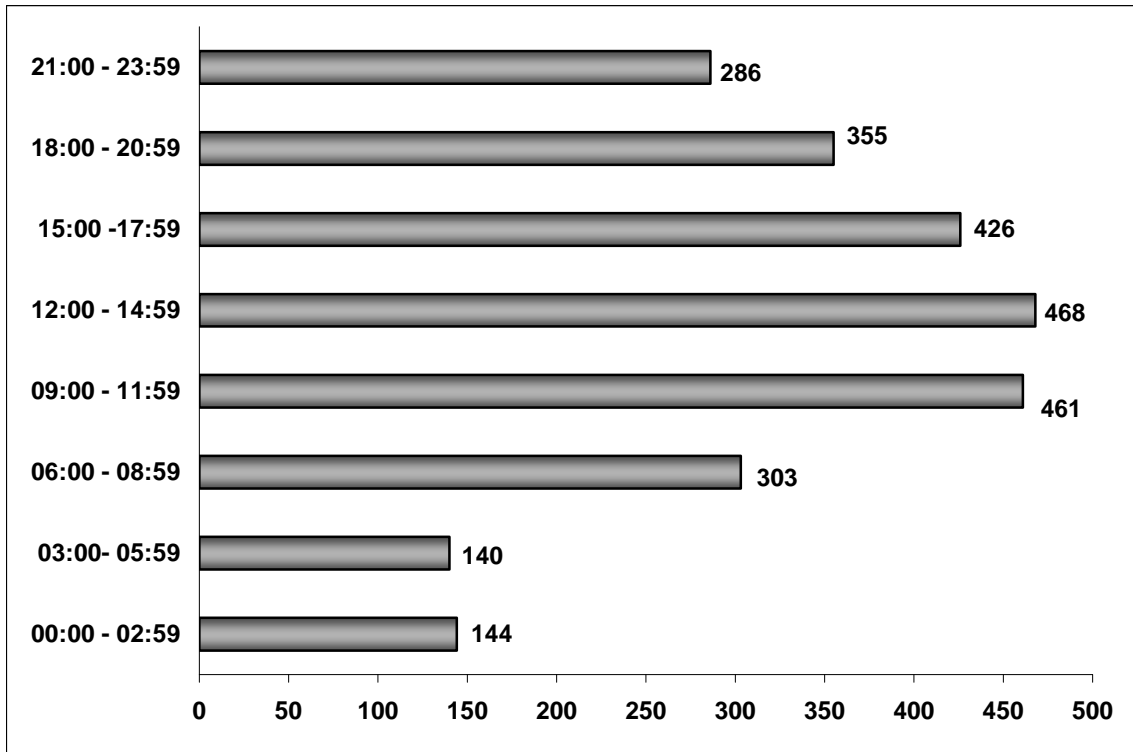
Three hundred and sixty mutual aid incidents accounted for 14 percent of incidents. The Fire District interacted with 25 different fire agencies. By a vast majority, Lincolnshire-Riverwoods, Northbrook and Lake Forest Fire Departments were the three agencies with which there was the most interaction. Below is a detailed summary of all requests for mutual aid.

Department	Aid Given	Aid Received
Lincolnshire	122	179
Northbrook	136	84
Lake Forest	43	82
Highland Park	20	7
Highwood	12	4
Libertyville	5	0
Countryside	4	1
Buffalo Grove	3	0
Glencoe	2	1
Lake Bluff	2	1
Lake Zurich	2	0
Niles	2	0
Evanston	1	0
Glenview	1	1
Lincolnwood	1	0
Prospect Heights	1	1
Long Grove	1	1
Skokie	1	0
Wheeling	1	1
Flight For Life	0	2
Knollwood	0	1
Northfield	0	1
Park Ridge	0	1
Wilmette	0	1
Winnetka	0	1
Total	360	370

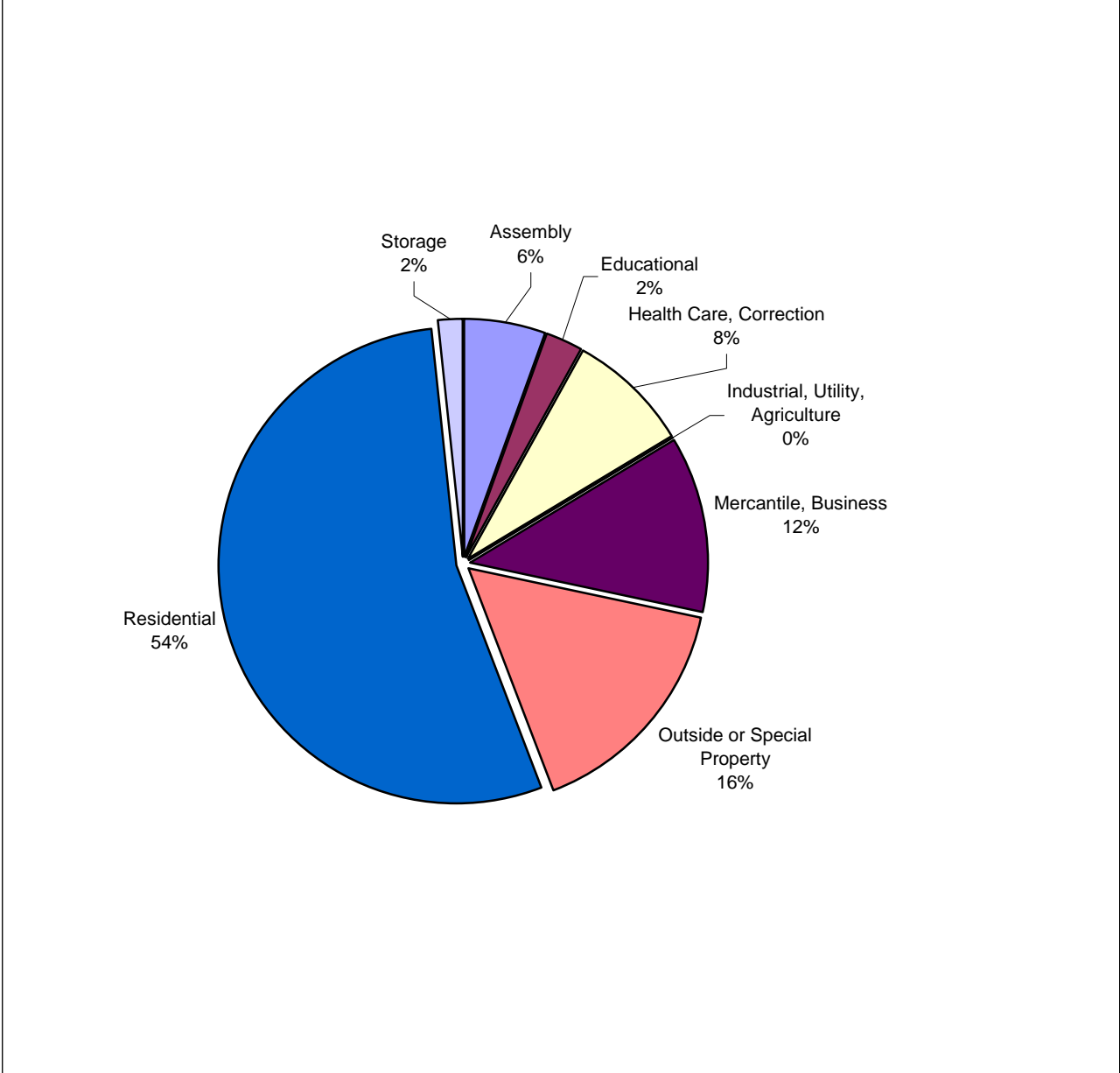
INCIDENTS BY STATION



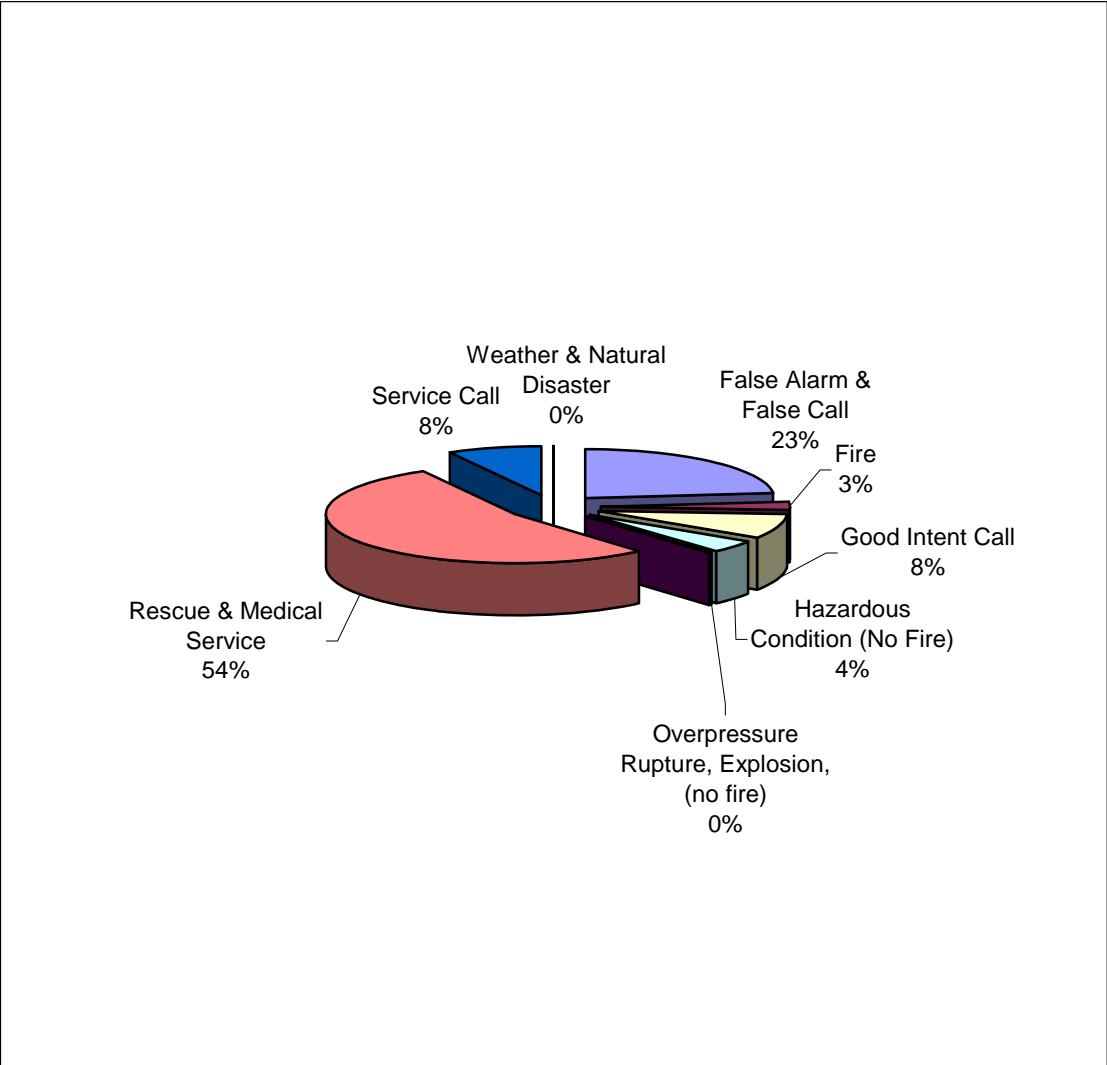
INCIDENTS BY HOUR



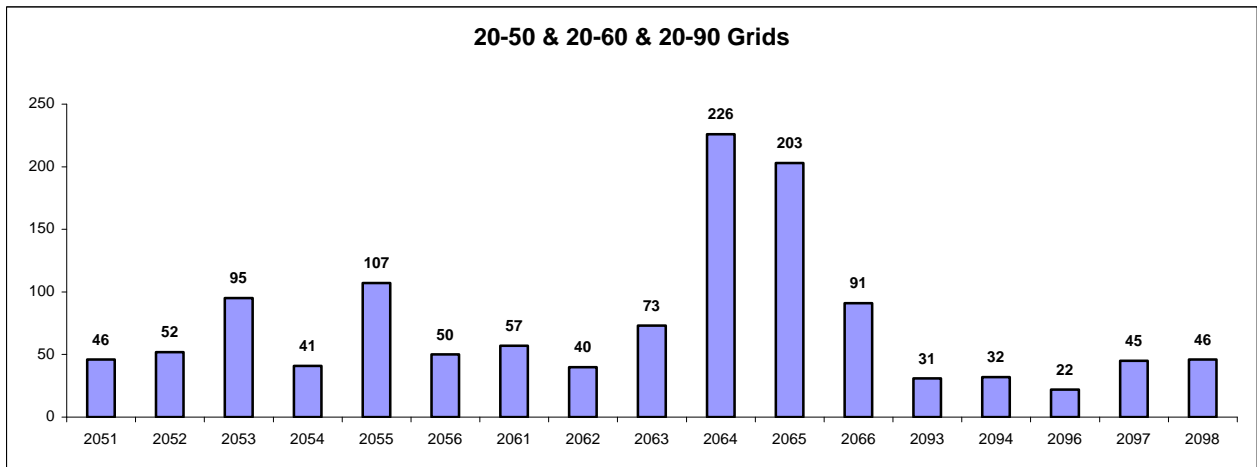
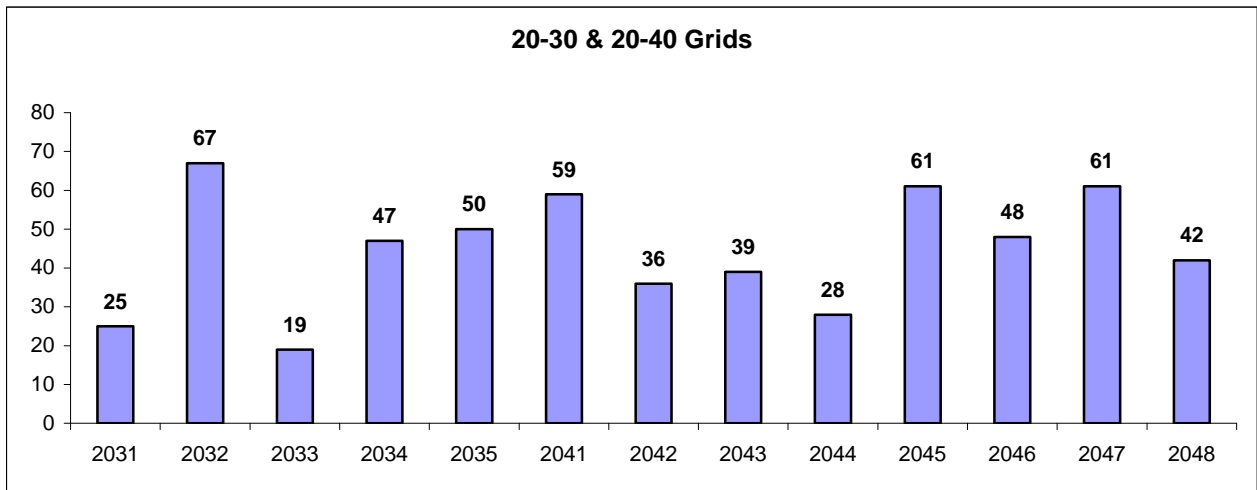
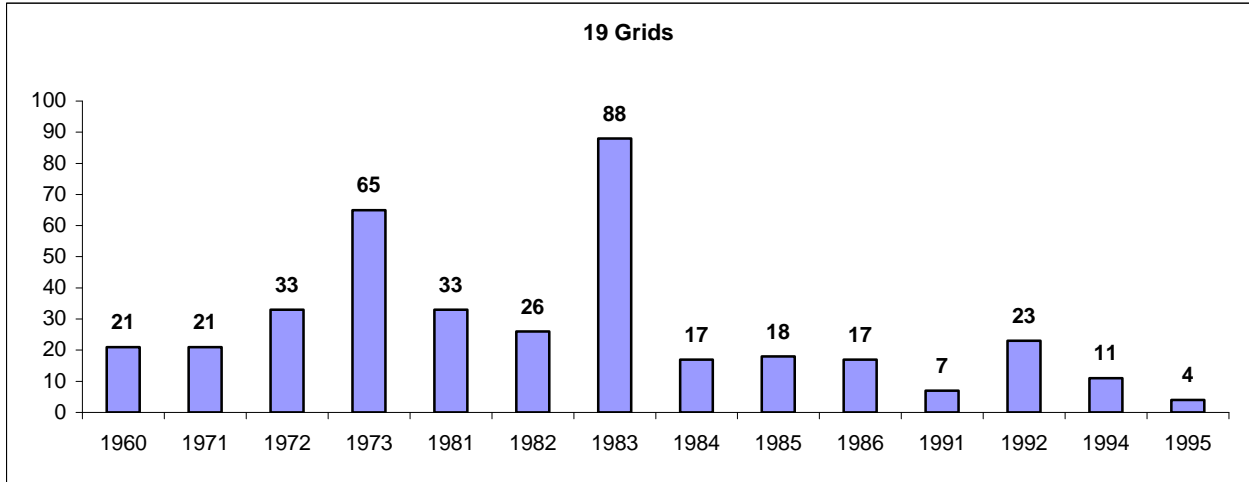
INCIDENTS BY PROPERTY USE



INCIDENTS BY TYPE



INCIDENTS BY GRID



FIRE PREVENTION BUREAU

Prepared by Fire Marshal Christopher Johnson



SUMMARY

The staff of the Fire Prevention Bureau is proud to present this section of the Fire District's annual year-end report for the calendar year 2009 to the citizens, guests of the community, Board of Trustees and members of the Fire District.

Our mission is to preserve and enhance the quality of life for citizens and guests within the Fire District. Through the implementation of comprehensive fire and hazard prevention and education programs, our goal is to make our community a safer place to live, work, and play.

This report is a brief summation of the five non-emergency functions the bureau staff conducts within the Fire District:

**Plan Review
Revenue
Life Safety Fire Inspections
Fire Investigations
Public Education**

A complete, detailed listing can be found within the bureau records located in our Firehouse Software database.

Personnel supporting these functions include the Fire Marshal, four part-time fire inspectors, an administrative assistant, and members of the department who assisted throughout the year with various events, pre-incident planning, and/or implementation of educational programs. Last year, the four part-time inspectors for the bureau logged 1,671 work hours.

Within the Fire District there are approximately ten million square feet of business office space, mercantile and other various occupancies. Each occupancy is inspected annually for fire/safety code compliance. In 2009, there were 2,185 inspection activities completed.

The Fire District continues to be a leader in providing outstanding public fire safety education in our schools, businesses and community groups. Last year, we conducted activities within Youth Education, Community Service, Corporate Education, Community Preparedness, and Adult Education groups. This summary only highlights some of the activities that we were involved with last year. A complete listing is available upon request.

Under the plan review function, our revenue for plan review and permits increased 43 percent in the second half of the year. This was due in part to the implementation of a revised ordinance for fire alarm and automatic sprinkler systems that increased permit fees.

The bureau staff would like to personally thank our citizens, Board of Trustees, Chief Quinn, Deputy Chief Kazian, the administrative staff, and the Fire District's officers and firefighters for their strong support and collaboration during this past year.

PLAN REVIEW

Fire Prevention Bureau staff works closely with our three village building departments to help maintain compliance with fire and life safety codes in both new and existing commercial structures within the Fire District. Construction and fire protection/detection system plans are submitted and reviewed to ensure compliance with life safety regulations, and our district-adopted ordinances as they pertain to fire alarm, Knox box, and automatic sprinkler system requirements.

A total of 178 sets of construction plans were submitted and reviewed by the bureau staff. A breakdown of the sets of plans submitted this past year were:

<i>Fixed kitchen suppression systems reviews</i>	<i>3</i>
<i>New building construction reviews</i>	<i>1</i>
<i>Automatic sprinkler systems reviews</i>	<i>47</i>
<i>Automatic fire alarm systems reviews</i>	<i>19</i>
<i>Existing/new tenant space remodeling reviews</i>	<i>108</i>

These construction plans produced a total of 113 site inspections by our bureau staff for compliance with building and life safety codes of the villages within the Fire District. In addition, a total of 32 Certificates of Occupancy were issued for either new or existing tenant complexes in the Fire District.

REVENUE

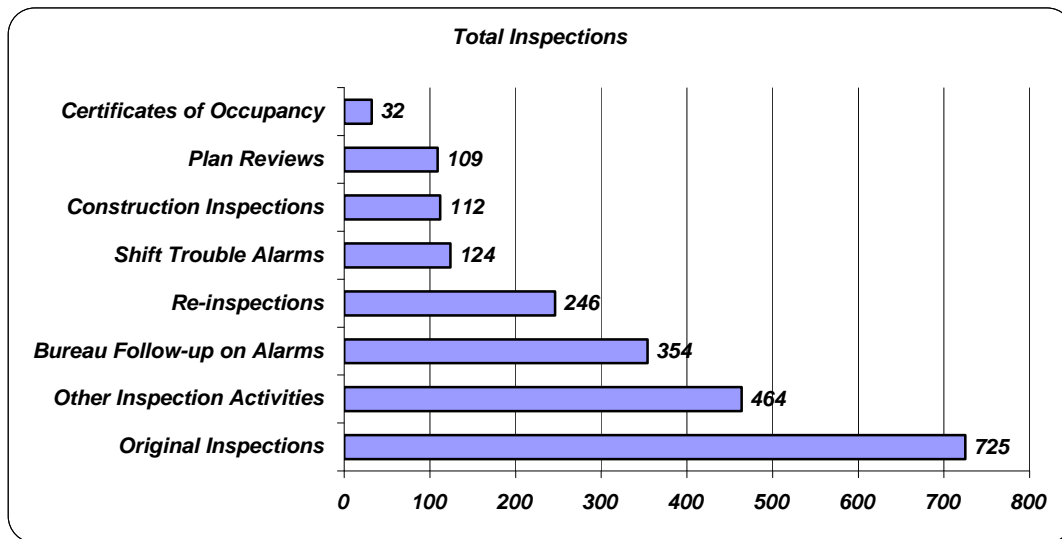
The Fire Prevention Bureau plan review process and certificate of registration procedures collect revenue for the Fire District from permits. The permits and revenue are based on the adopted ordinances of the Fire District. The total revenue collected last year increased to \$16,500.

<i>47 automatic sprinkler system permits</i>	<i>\$12,075.00</i>
<i>19 automatic fire alarm system permits</i>	<i>\$ 3,525.00</i>
<i>18 Certificates of Registration</i>	<i>\$ 900.00</i>
<i>Total 2009 Revenue</i>	<i>\$16,500.00</i>

LIFE SAFETY FIRE INSPECTIONS

Annual inspections of commercial buildings, schools, places of worship, and special use occupancies are conducted based on compliance with the National Fire Protection Association Life Safety Code 101. Through the efforts of the bureau staff, most commercial buildings, day care centers, schools, places of assembly, and places of worship were inspected for compliance with life safety codes. The breakdown shows that original inspections had the highest amount of activities at 725 (see the chart below for details). Other inspections include any special details, fire drills, day care facilities, storage tank inspections, citizen complaints, shift fire alarm follow-ups, and construction meetings.

Each inspection was entered into the Fire District's Firehouse Software database for record keeping. In addition, information regarding the property owner, key holder, emergency contacts, fire/suppression systems, and occupancy load are updated on an annual basis. Here is a summary of the 2,166 total inspection activities conducted last year:



FIRE INVESTIGATIONS

The Fire District has three state certified fire investigators that were called upon to assist with the following three investigations last year:

January 19, 2009	1449 Woodland Dr. Deerfield	Single family residential garage fire
#09-0001979	\$5,000 in estimated damages	
CAUSE:	Electrical Wiring Short	
June 9, 2009	452 Castle Pines, Riverwoods	Kitchen fire
#09-0015255	\$5,000 in estimated damages	
CAUSE:	Stove fire, combustibles to close	
July 13, 2009	1661 Cranshire, Deerfield	Dryer fire
#09-0018784	\$14,000 in estimated damages	
CAUSE:	Over-heated dryer	

PUBLIC EDUCATION

The Fire District and its members have been a leader in providing outstanding public fire safety education programs in the public schools, businesses, as well as to community groups. Using a variety of teaching methods, part-time public educators teach fire safety, adult education, burn awareness, injury prevention, car seat safety and installation, making good life choices, business continuity planning, and juvenile fire setter education.

Our goal is to make our community a safe place to live, work, and play. Educating our citizens regarding things they can do to make their homes, businesses and surroundings safe, and teaching them what they should do in case of an emergency, are very effective ways to achieve this goal. Each program conducted is a part of one or more of these five categories: **Youth education, community service, community preparedness, adult education, and corporate education.** Listed below is a summary of some of the programs in each category. A complete listing of all department activities is available upon request.

1. Youth Education Programs

Our Public Education Team reaches out to the local schools with fire safety/fire prevention programs from preschool through high school. A few of the highlights from the 2009 Public Education Team are:

- ❑ *“Learn Not to Burn” (Preschool-3rd Grade)* – This is an elementary education program focusing on fire safety and prevention. Last year, 1,714 students were taught this valuable information.
- ❑ *Burn Awareness Month (3rd Grade Program)* – This program takes place in February and teaches burn prevention and emergency treatment. The program consists of a tour of the department’s Fire Safety “House of Hazards” and a lecture on how dangerous burns can be. Last year, 183 students went through this program.
- ❑ *Smoke/Carbon Monoxide alarm education (4th Grade Program)* – This program emphasizes routine maintenance of smoke/carbon monoxide alarms and encourages students to share this information with their parents. It also highlights the recent change in Illinois law that requires carbon monoxide alarms in all residential homes. We saw 342 students in this program last year.

2. Community Service

One of our goals is to be a part of the local community as a good neighbor and public service agency. Last year, some of the ways our department resources were used to serve our community were:

- ❑ *Community Services Day* – For the past five years in September, we partnered with public and private organizations and hosted a day on which all agencies showcased their services available to the public. Our department conducted live fire demonstrations to promote residential sprinkler and portable extinguisher usage. In addition, prizes were given away and there were activities for both children and adults.
- ❑ *Child safety seat inspections* – Over 100 vehicle child seats were inspected last year to ensure the safety of our Fire District’s citizens and guests.
- ❑ *Blood pressure checks* – These are performed monthly at One Deerfield Place (Senior Citizen Housing) and daily for citizens that stop by the fire station.

- ❑ *Youth reading programs* – Both at the Deerfield Library and Barnes and Noble bookstore, our services were requested and performed for families interested in meeting and reading with one of our community firefighters.
- ❑ *Juvenile Fire Setters programs* – This program targets youths who have an unhealthy interest in fire. The program teaches the dangers and repercussions of such behavior and helps to prevent continued dangerous behaviors.
- ❑ *Special needs student station tours* – Helping special needs populations with emergency planning is different from our early education programs we offer. Not every situation and response is the same and having sensitivities to this allows us to work hand-in-hand with organizations that specialize in working with students with special needs.
- ❑ *Block parties* – Often our attendance at a block party is requested and as long as our vehicles are available, we are glad to meet the public's request to stop by and meet the citizens we serve. Last year, our shift members attended 13 block parties for this program.

3. Community Preparedness

The programs we deliver reach out to teach fire safety, burn prevention, and emergency preparedness to all ages. We strive to have citizens prepared to respond to emergencies if the need arises. A few of the ways we do that are:

- ❑ *Fire extinguisher training* – This program is offered to any business and their employees and includes all sixth-grade classrooms. The program is designed to teach the need for fire extinguishers and their proper use. Hands-on training is included in order to teach students how to properly extinguish a fire in its earliest stages. In 2009, 94 adults and 170 sixth-graders were trained in the proper use of a fire extinguisher.
- ❑ *CPR/AED training* – Our department offers certain public employees preparation and training on the proper ways to treat a cardiac arrest if witnessed in public. Last year, all Deerfield Police, Bannockburn Police, Deerfield Park District, Deerfield Public Works, and Deerfield School District #109 employees were trained in CPR and AED technology based on the American Heart Association materials.
- ❑ *Boy/Girl Scout partnership* – We continue to grow and expand our partnership with local Boy/Girl Scout troops in the area of emergency preparedness. This is an ongoing partnership we hope to see expand in the coming years

4. Adult Education Programs

We strive to encompass educating the wide range of ages within our general population. One of the ways we do that is by reaching out to adults, who typically can be forgotten when speaking of fire prevention education. Two programs we offer are:

- ❑ *N.F.P.A. "Remembering When"* – This is a program offered through the Office of the State Fire Marshal that reaches out to older adults and illustrates trip and fall hazards in the home, burn awareness, and risk reduction or prevention. We have partnered with the Deerfield Senior Center to help present this program and last year we offered five different classes around town.
- ❑ *Senior citizens smoke alarm program* – This program focuses on citizens of the community who might not be able to maintain their smoke/carbon monoxide alarms without assistance. For yearly assistance in changing batteries in their alarms, citizens call the fire department for this service. Last year, 71 homes were visited with this program and 206 batteries were installed to ensure home protection and working alarms.

5. Corporate Education Programs

Our fire prevention staff works hand-in-hand with local businesses and corporations to ensure that safety procedures and emergency preparedness planning is integrated into their business continuity plans. Our department is part of the Lake-Cook Region of the Critical Incident Protocol (CIP) team and has partnered in many ways with our private corporations. Here are a few of the corporate activities we were involved with:

- ❑ *Engine company fire drills* – Fire drills are scheduled with our fire prevention officers and frequently a fire engine attends these drills as if practicing for a real emergency. Last year, 47 businesses and schools conducted fire drills with our department's members present.
- ❑ *Fire Warden training* – This educational lecture is taught to organizations' fire wardens on how to safely and effectively evacuate their buildings in the case of an emergency.
- ❑ *Continuity planning* - This program reviews the design of local business and corporation continuity plans to ensure that emergency operations and back-up services for their employees and businesses are addressed before the emergency happens.
- ❑ *Safety static displays* – The use of static displays during corporate Health and Safety days allows us to convey any of the following: smoke/carbon monoxide detector education, blood pressure screenings, fire safety in the work place, fire and burn prevention, and holiday safety information.

Firefighters provide a demonstration to promote residential fire sprinklers



TRAINING DIVISION

Prepared by Lieutenant Mark McManaman

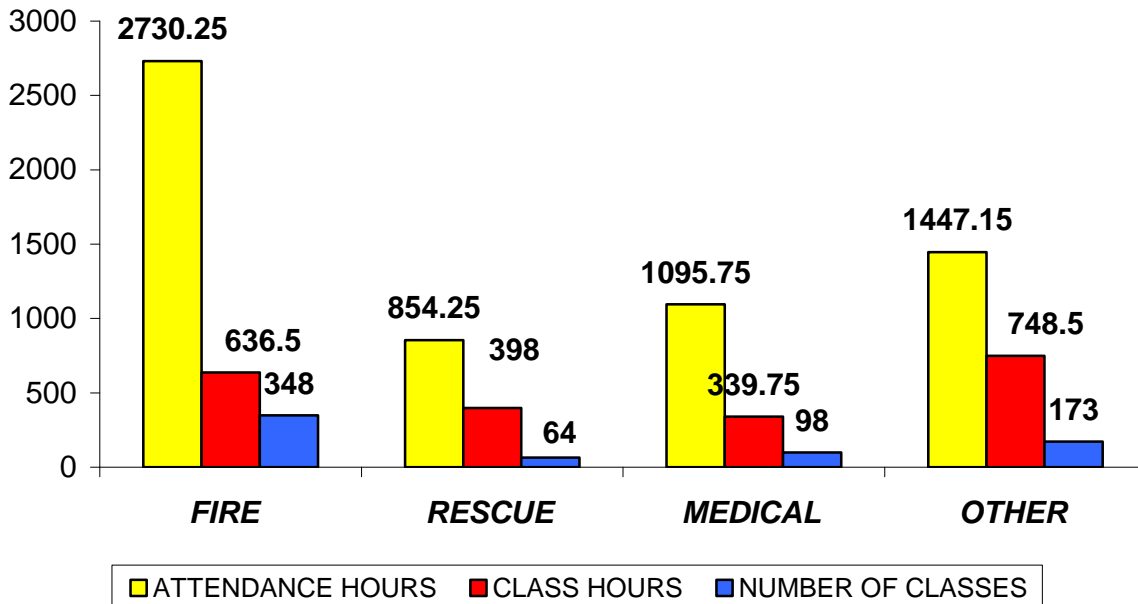


SUMMARY

Training includes fire, rescue, and medical training for all line personnel, as well as mandatory safety training for both line and staff personnel. The Training Division follows mandates from the following agencies: the Office of the State Fire Marshal, Illinois Department of Labor, and the Illinois Department of Public Health. These agencies set requirements for training hours, safety, certifications, and mandatory training subjects. The Training Division would like to thank Chief Quinn and Deputy Chief Kazian, as well as the Board of Trustees, for their continued support and dedication to our members in pursuing a high standard in training and education. This report includes:

Administration And Training Needs Assessment Monthly Shift Training Outside Training Certifications And Education Special Response Teams

The members of the Fire District obtained training through shift level drills, attending outside classes away from the department, and attending special rescue training provided by MABAS. The Training Division logged a total of 2,122.75 class hours through 683 classes, resulting in a total of 6,127.4 attendance hours. All training has been divided into four major categories: **Fire**, **Rescue**, **Medical**, and **Other**.



ADMINISTRATION AND TRAINING NEEDS ASSESSMENT

Administration

The Training Division changed in 2009 by adding an Assistant Training Officer. Additionally, Shift Training Representatives were added to each of the three shifts. The Training Division is now made up of the following individuals: Lt. Mark McManaman-Training Officer, FF Bob Dooley-Assistant Training Officer, FF James Dalgaard -Shift Training Representative A-Shift, FF Jeff Hackman-Shift Training Representative B-Shift, FF Sean Wilson-Shift Training representative C-Shift.

With the absence of a full-time training officer, the Training Division felt the need to add several personnel in order to better facilitate the constant demand placed on the Training Division on a daily basis. The added positions were implemented midway through the year. The Training Officer and Assistant Training Officer are responsible for providing training to all Fire District employees. It is the Training Officer's and Assistant Training Officer's responsibility to oversee the major operations of training, with the Shift Training Representatives aiding the Company Officer or Acting Company Officer in carrying out the day's lesson plan and initial record keeping of the drill.

Training Needs Assessment

A Training Needs Assessment is done at the beginning of the year to help point out any major areas of training our members feel we may need to focus on, as well as all of our mandatory training that needs to take place.

The 2009 training year was very challenging with the acquisition of several new pieces of equipment. These pieces required extensive training prior to being placed into service. One of those purchases was the Petrogen Torch, which is a state of the art high temperature gasoline/oxygen supplied cutting torch now in service on Truck 20.

Another major change was placing into service a completely new air pack, namely the MSA Fire Hawk air pack. Our members were challenged with initial training that took place in the MABAS Division 3 SCBA Trailer. Our department plans to borrow this trailer on a yearly basis to help maintain an increased proficiency while using the air pack in a confined, zero visibility atmosphere.

New Engine 20 was also placed in service after many hours of initial drive time and operational training time.

MONTHLY SHIFT TRAINING

A monthly training calendar is available to department members to keep them apprised of the training schedule for the year. As mentioned earlier, we are mandated to perform a certain amount of training on a yearly basis, and these topics are filled in on the training calendar.

There are times when an invaluable training opportunity will arise that we make every attempt to take advantage of. In the fall of 2009, such an occasion presented itself when a gracious homeowner donated to our department a residential home set for demolition. All necessary components fell into place and our department was able to participate in three days (one day for each shift) of live fire training at a residential structure. This provided each shift an opportunity to participate in all aspects of tactical procedures required to be successful at a structure fire, including size up, attack, search and rescue, ventilation, extinguishment, overhaul and incident command functions.

Our department continues to utilize our MABAS divisions for training. We currently participate two times a year in Division 3 training at Northern Illinois Public Safety Training Academy (NIPSTA), which is an ever-growing regional training academy for fire, police, and public works employees. The fall training session in 2009 allowed our members to participate in a live fire/vehicle crash scenario involving a commuter train.

We are still involved with the Quad 4 training group as well, which allows us more opportunities to participate in multiple company drills while on duty.

Below is a chart that summarizes monthly shift training. There were 587 shift classes with 965 hours spent training, resulting in 4,484.4 total training hours.

Month	Number of Classes	Total Class Hours	Total Attendance Hours
Jan	46	80.5	333.75
Feb	52	75.5	314.25
Mar	56	97.5	511.5
Apr	55	84	426
May	43	94	370
Jun	57	88.75	382.9
Jul	51	77	312.75
Aug	58	80.25	356
Sep	48	87.25	368.5
Oct	39	83.5	396
Nov	34	57	434.25
Dec	48	59.75	278.5
TOTALS	587	965	4484.4

OUTSIDE TRAINING

It would not be possible to obtain all necessary training while on duty. Our department is very fortunate to have several assets close to the Fire District in order to participate in outside training, including NIPSTA.

Other organizations available to us for outside training are the Office of the State Fire Marshal, the Illinois Society of Fire Service Instructors, the Illinois Fire Chiefs Association, and the Illinois Fire Service Institute.

Fire District personnel attended 42 classes for a total of 1064.25 attendance hours. Some of the major classes/Conferences attended were:

- Deputy Chief Kazian and B/C Philip attended the Firehouse Software seminar
- Fire Marshal Johnson attended the National Fire Academy's Hot Topics for Fire Protection conference in Emmitsburg, Maryland
- Deputy Chief Kazian and firefighters Gutknecht, Montondo, and Jablonski attended nationally known speaker Rick Lasky's Pride and Ownership class
- FF Dooley attended the Illinois Society of Fire Service Instructors conference in Peoria
- Lt. McManaman, Lt Victor, and Lt. Zemke obtained their OSFM Fire Officer II certification
- Firefighters Montondo, Fellows, and Morony obtained their OSFM Firefighter III certification
- Firefighters Montondo and Fellows obtained their OSFM Fire Apparatus Engineer certificates and became Class I Drivers for the Fire District.

Firefighters participate in a live fire training drill.



CERTIFICATIONS AND EDUCATION

The Fire District encourages personnel to further both their education in fire science and their certifications in OSFM courses.

Certifications

The following is a breakdown of the certifications obtained in 2009.

Certifications	2009
Fire Apparatus Engineer	3
Firefighter III	2
Fire Department Incident Safety Officer	4
Fire Instructor I	2
Fire Instructor II	1
Provisional Fire Officer I	1
Fire Officer I	1
Fire Officer II	3
Fire Service Vehicle Operator	3
Training Program Manager	2
TOTAL	22

Education

In addition to the required shift, outside, and special rescue training, many Fire District members attend college classes to further their education and to meet the requirements needed for promotion.

With the gracious financial support from the Fire District, personnel continue to attend courses in order to obtain their associate's or bachelor's degree.

SPECIAL RESPONSE TEAMS

Several Fire District personnel are assigned to one or more specialized response teams. These specialized response teams are divided into four different categories. The categories are the **Technical Rescue Team (TRT)** that specializes in Rope, Confined Space, Trench, and Structural Collapse, the **Dive Team**, the **Hazardous Materials Team**, and the **Illinois USAR (Urban Search and Rescue) Task Force 1**.

One of the highlights last year for our two members of the USAR Team was the opportunity for them (FF Florio and B/C Koerber) to participate in a two-day operational exercise involving an actual collapsed building in Oak Brook.

In addition, two members of our department, FF Jeff Kates and FF Vito Florio, represented the MABAS Division 3 TRT at the validation drill at the Illinois Fire Service Institute. This was also a two-day, around-the-clock exercise testing the skills and job knowledge of TRT members.

Topic	Number of Classes	Total Class Hours	Total Attendance Hours
TRT	19	87.75	254
Haz Mat	15	48.5	80
Dive	7	23.25	23.25
USAR	13	127.5	230.5
TOTALS	54	287	587.75

USAR team member Florio participates in a search and rescue drill.

