## **2014 EMS STATE OF THE SCIENCE:**







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**Associate Professor Ohio State University Wexner Medical Center** 

**Medical Director Columbus Division of Fire** 

# FIRST LINE APPARATUS SUMMARY Emergency Units in Service

34 Engines

15 Ladders

5 Rescues

7 Battalion Chiefs

32 Medics

1 Hazmat

7 EMS Supervisors

1 Incident Support Unit

2 Bomb Squads

1 Safety Officer

14 Boats

1 Command Unit







ENGINE

MEDIC

LADDER

FIVE-YEAR COMPARISON					
	2008	2009	2010	2011	5015
Total Incidents	146,144	142,981	148,918	161,693	149,117
Fire Incidents	24,868	21,470	21,861	23,715	34,659
Ems Incidents	110,739	110,398	115,311	137,442	114,458

### GEOGRAPHICAL

Metro Columbus 399.1 square miles population: 1,742,798

City of Columbus 9.9 square miles population: 791,868

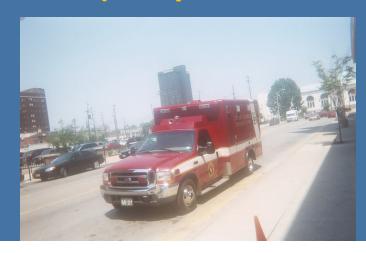


### CFD EMS OVERVIEW

- All ALS Fire based EMS System
- Two EMT-Ps on each Medic Vehicle (32)
- At least one EMT-P on each engine (34)



- At least one Engine and One Medic per 32 stations
- Seven EMS Supervisors –one per battalion
  - (1 Captain and 6 Lieutenants per unit)





# What is Red White and Boom?

Imagine cramming 500,000 people into 2 square miles downtown in the hottest time of the year to watch things blow up!





#### ORIGINAL RESEARCH

#### Half-a-Million Strong: The Emergency Medical Services Response to a Single-Day, Mass-Gathering Event

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Keywords: emergency medical services; event planning; mass gatherings; mass-gathering medical care; paramedic; prehospital care; rock concerts

#### Abbreviations:

ACR = ambulance call report EMS = emergency medical services EMT = emergency medical technician PCR = patient contact report

Received: 15 April 2004 Accepted: 10 June 2004 Revised: 12 July 2004

Web publication: 10 November 2004

#### Abstract

Introduction: Emergency medical services (EMS) responses to mass gatherings have been described frequently, but there are few reports describing the response to a single-day gathering of large magnitude.

Objective: This report describes the EMS response to the largest single-day, ticketed concert held in North America: the 2003 "Toronto Rocks!" Rolling Stones Concert.

Methods: Medical care was provided by paramedics, physicians, and nurses. Care sites included ambulances, medically equipped, all-terrain vehicles, bicycle paramedic units, first-aid tents, and a 124-bed medical facility that included a field hospital and a rehydration unit. Records from the first-aid tents, ambulances, paramedic teams, and rehydration unit were obtained. Data abstracted included patient demographics, chief complaint, time of incident, treatment, and disposition.

Results: More than 450,000 people attended the concert and 1,870 sought medical care (42/10,000 attendees). No record was kept for the 665 attendees simply requesting water, sunscreen, or bandages. Of the remaining 1,205 patients, the average of the ages was 28 ±11 years, and 61% were female. Seven-hundred, ninety-five patients (66%) were cared for at one of the first-aid tents. Physicians at the tents assisted in patient management and disposition when crowds restricted ambulance movement. Common complaints included headache (321 patients; 27%), heat-related complaints (148; 12%), nausea or vomiting (91; 7.6%), musculoskeletal complaints (83; 6.9%), and breathing problems (79; 6.6%). Peak activity occurred between 14:00 and 19:00 hours, when 102 patients per hour sought medical attention. Twenty-four patients (0.5/10,000) were transferred to off-site hospitals.

Conclusions: This report on the EMS response, outcomes, and role of the physicians at a large single-day mass gathering may assist EMS planners at future events.

Feldman MJ, Lukins JL, Verbeek PR, MacDonald RD, Burgess RJ, Schwartz B: Half-a-million strong: The emergency medical services response to a single-day, mass-gathering event. *Prehosp Disast Med* 2004;19(4):287–296.

#### Introduction

The 2003 "Toronto Rocks!" Rolling Stones Concert was held on 30 July 2003. This 12-hour outdoor concert consisted of 15 musical acts performing at an operational airfield with a capacity of >500,000 people. Local politicians conceived the idea for a concert as a boost for tourism in the aftermath of the 2003 severe acute respiratory syndrome (SARS) outbreak in Toronto. The concert was planned for and arranged in less than three months in the late spring of 2003, allowing only six weeks for emergency medical services (EMS) to prepare for the event. The same site was used for a gathering of



## **MASS GATHERINGS 101**

- "bounded/focused" events (stadium sporting events) tend to have higher PPR (patient presentation rates)
- "unbounded/extended" events (marathons and parades) tend to have lower PPR (patients may seek care outside event medical plan)
- Duration of the event over 6 hours, freely mobile crowds and events where alcohol and drugs are being used all effect PPR

### Red White and Boom Fast Facts

- Largest fireworks display in Midwest
- Always held on July 3<sup>rd</sup> to not interfere with local fireworks
- Annual budget \$1.1 million and run by outside company Promotions One
- Planning begins September and runs for 10 months
- 1981:
  - 30,000 people gathered in Downtown Columbus and 2 EMS vehicles covered the event.
- 2013:
  - 500,000 people viewed the event crammed in 2 square miles of Downtown
  - 15 EMS sites
  - EOC with 24 seats



#### **Hey Chief**

With tomorrow's expected temperatures to be in the 90's and the big crowd for Red White and Boom, we should expect to see many heat-related emergencies that will tax our system. I have attached our protocol page for these emergencies. These may be beneficial to distribute to our personnel to refresh their memories on these conditions.

MBUC	Standard Operating Procedures				
(A) (B)	Subject: Heat Syndromes				
DISTON OF THE	S.O.P. Number 07-02-24 Vol-CH-Cat.Sub	Approved  Ned letter J.  Fire Chief	Acknowledged  Jull Kay MD  Medical Director		
	Page: 1 of 2	Effective Date: 05/01/2000			
		Revised Date: 04/01/2008			

#### **Adult Medical Emergencies**

**Heat Syndromes** 

- A. Remove patient to cooler environment. Remove clothing as necessary.
- B. Administer Oxygen by most appropriate means.
- C. Apply cardiac monitor and watch for dysrhythmias.
- D. Initiate IV infusion of 0.9% NS at TKO rate.
- E. In any patient who has a systolic blood pressure < 90 mmHg or has a systolic blood pressure < 100 mmHg with signs of shock:</p>
  - Administer 300 ml fluid bolus of 0.9% NS
    - a) Repeat bolus if necessary.
    - Auscultate lungs frequently for rales, crackles or dyspnea. If present, discontinue fluid bolus.
- F. If heat stroke suspected, then cool with ice packs or water.
- G. Reassess adequacy of ventilation and perfusion. If possible, obtain temperature.







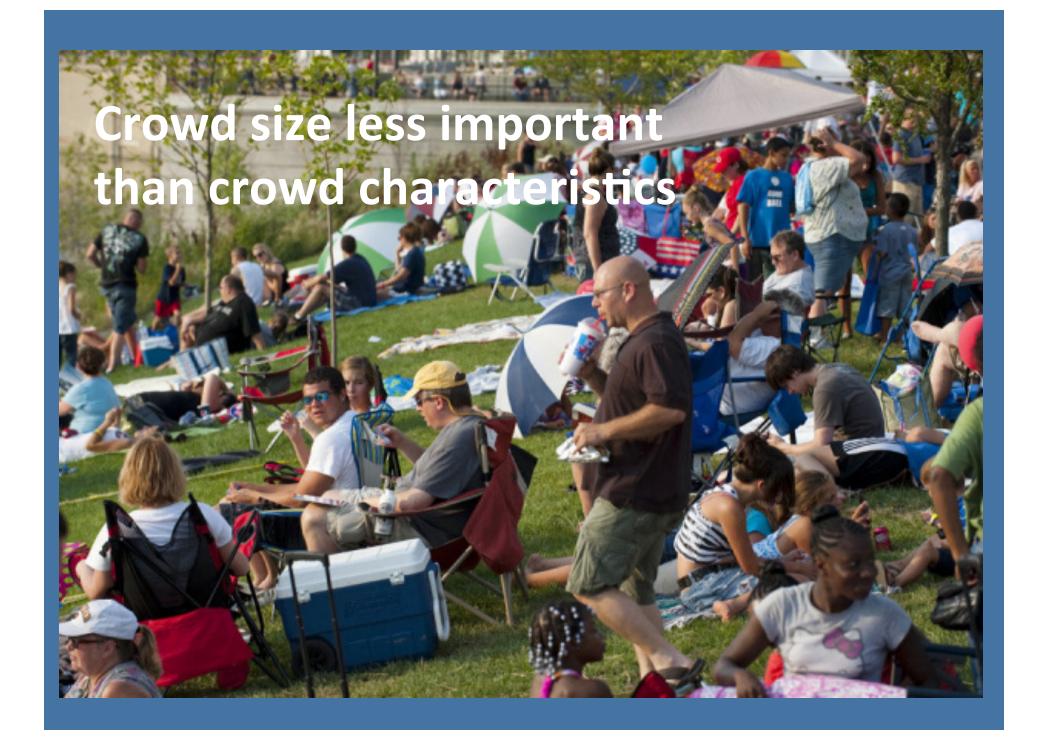








































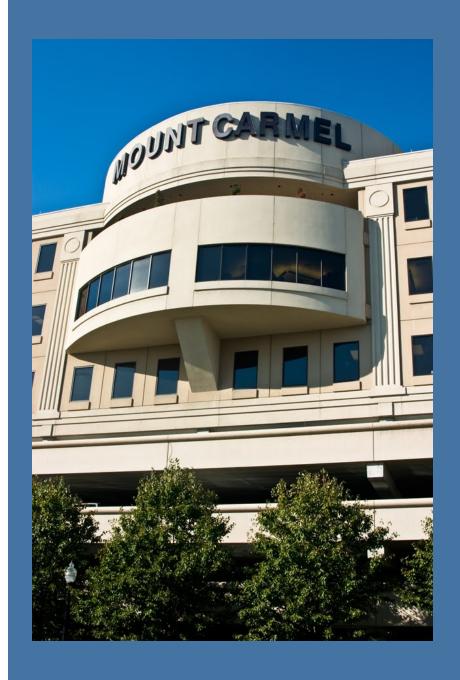




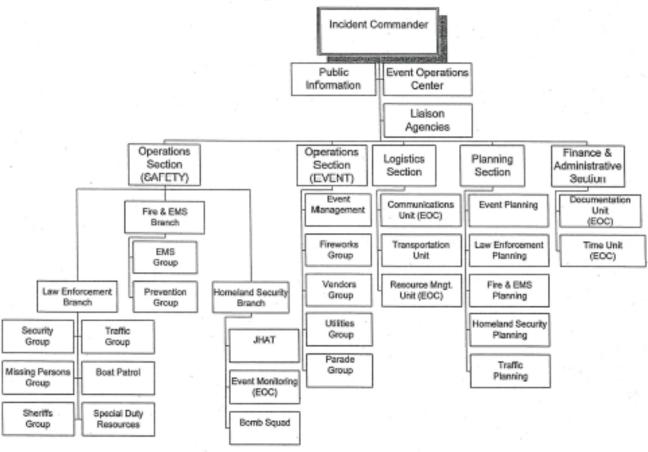












### 2008 Red, White and Boom

Thursday, July 3, 2008 1st Operational Period (6 AM – 4 PM)

ICS Form 207







### Medic Crews Each of these vehicles will be staffed with three (3) Paramedics

Medic 840 Marconi Blvd. (Between Long St & Broad St)

Medic 841 S/E (corner) Broad St and Front St

Tent # 1 W. Long St / Neil Ave

Medic 842 W. Broad St at Belle St N/E corner (in front of Vets Memorial)

Tent # 2 Rear of COSI Stage

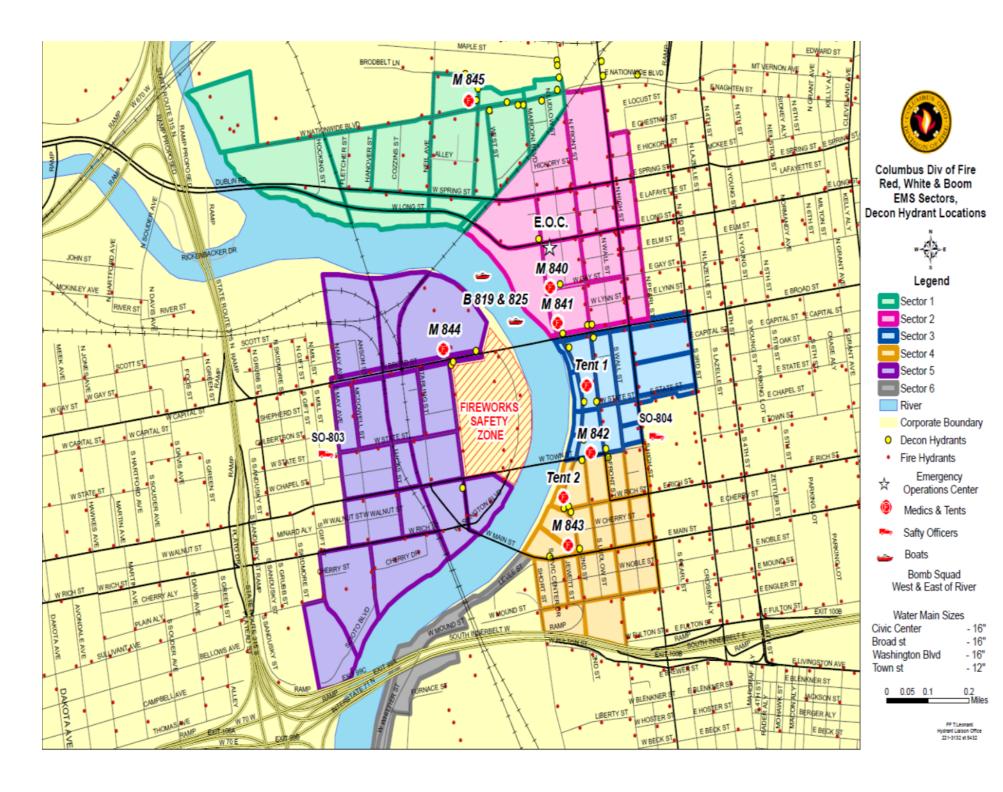
Medic 843 Nationwide Blvd at Ludlow St

Medic 844 W. Spring St / Hanover St

Medic 845 John H. McConnell Blvd North of Nationwide Blvd.

Medic 846 W. Town St / Belle St

Medic 847 W Rich St / Civic Center Dr Medic 848 Civic Center Dr / Town St





### PDM Medics Staffed with 2 overtime paramedics and one EMT-B

Medic 35 Greenlawn Avenue near Berliner Park entrance

Medic 36 Extraction point 1 (Mound and Front)

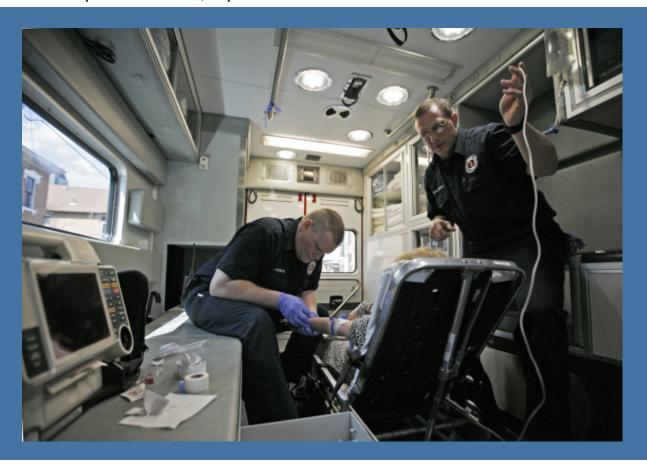
Medic 37 Near Extraction point 2(Front and Broad)

Medic 38 West Whittier Street

### **Transports / Extraction Points (locations)**

In most instances transports will be with on-duty Medics, with the exception of load and go patients. Do not transport without prior authorization from an EMS supervisor, with the exception of instances where the patient's status does not allow time for obtaining prior authorization.

If it is necessary for a special duty crew to transport a patient, advise an EMS supervisor, and the command post that you will be transporting, and out of service from your assigned position. Advise the EMS supervisor and the EOC when you are back in service. Transports authorized by an EMS supervisor will be with a police escort, if possible.



For Patient transports we will use the Extractions points to meet on-duty or PDM Medics to transfer patient care for transportation.

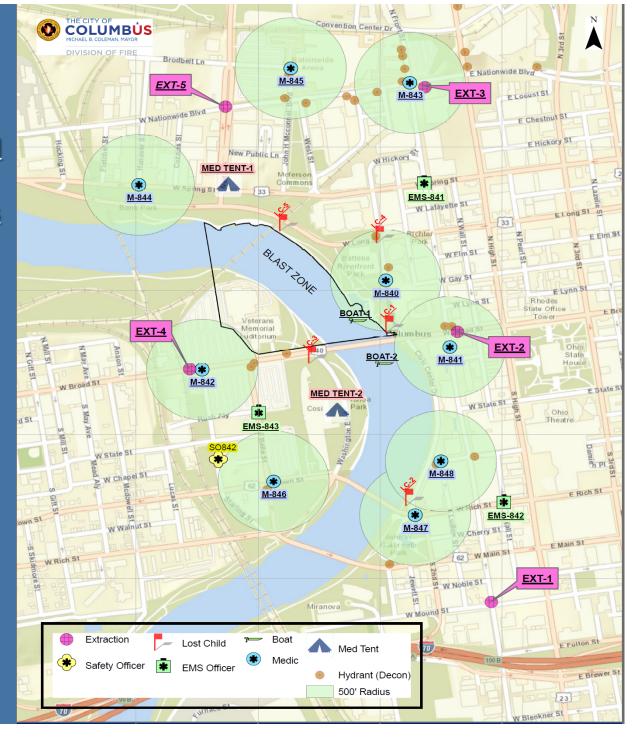
1-Mound St. & Front St. S/E Quadrant

2-Broad St. & Front St.

Midtown Quadrant

3-High St. & Nationwide Blvd Quadrant

4-Broad St. West of Starling 5-Neil Ave North of Spring St







- Monitor medic crews incidents
- Monitor EMS supply
  - Transfer supplies between crews.
- Identify routes / pick-up areas for transport medics
- Distribute Ice
- Ensure a



#### **EMS Supervisors**

EMS 841 Lt- assigned to (West side of the river south of Broad St)

EMS 842 Lt- assigned to (East side of the river north of Broad St. and the Arena District.)

EMS 843 Capt- (EMS Supervisor).

### **Emergency Decontamination**

All hydrants on Marconi Blvd and Civic Center Dr. from Long St. to Main St. are equipped with emergency decontamination caps. In addition, each crew is equipped with an emergency decontamination cap, a hydrant wrench and a hydrant map of the area. After set up in your assigned position please refer to the hydrant map and identify the location of the nearest hydrants to your position. Several hydrants have been tapped for vendor use; garden hoses connected to these hydrants can be disconnected or cut and used for decontamination. Full PPE including the face piece and Respirator (Dog Bone) or SCBA if available, should be worn before attempting to deploy emergency Decon caps. EMS Coordinators should familiarize themselves with the hydrants in their assigned areas and any potential problems with deploying the caps should they be needed.



### **Emergency – Immediate Protective Action Guidelines**

In the unlikely release of a hazardous chemical, and/or CBRNE Incident, emergency response personnel should:

- Stay Clear of all spills, vapors, fumes smoke (Plume) and suspicious sources
- *Immediately* evacuate the hazardous area by moving away from the incident, uphill and upwind from the site.
- If personal protective equipment is available, i.e., Air Purified Respirator "Mask", don protective mask and leave the area.
- Minimum Standoff distance for an Unknown CBRNE release:
  - Outdoor Release: Chemical- 500 ft. Explosive- 2000 ft
  - Indoor Release: Chemical- 300 ft Explosive- 500 ft (from building)
- Evacuate to an open area, free from risk of Fire, Explosion and Toxic gases.
- Avoid taking shelter near tall buildings or low-lined areas due to mixed surface winds and uncertainly of hazardous plume travel and unknown chemical properties.
- If shelter-in-place is indicated, use only when emergency evacuation would cause "greater" risk to the health and safety of public safety personnel. Shelter-in-place should be avoided if flammable vapors are present, and/or toxic gases which may cause an unfavorable atmospheric condition and greater risk to human life.
- Maintain radio communication and stand-by for further guidance and update to the situation. (Follow-on Emergency Response and Assignment)

# Background

### **Incident:**

Location: City of Columbus-Downtown

Date: 03 July 2013

Time: 24 R

Weather Data: Local, Single Observation

Local Weather for 03 JUL 2013, forecasted with calm winds from the West/Southwest,

at 3-6 mph.

Temperatures will range lows 70's to high 80's peaking around 5pm. Skies will be cloudy to partly cloudy, with a 20% chance of rain and possible thunderstorm activity mid-afternoon.

Analysis: Models Used: HPAC (v 5.0/4.4 Service Pack 1) ARCMAP View 9.3/CATS

WMD Hazard model scenarios are based on the <u>"unlikely use of WMD's-worst case scenario"-terrorism attack</u>, using Chemical warfare agents, (CWA's), Toxic Industrial Chemicals (TIC's), Radiation Dispersion Device (RDD) and//or explosive devices-mixtures to cause harm.

**Assumptions:** 

#### **Chemical Agents**

**HPAC RUNS** 

**Agent: Various** 

Dispersal Method: Air/Ground

Amount: . Various

Speed: Ambient Air

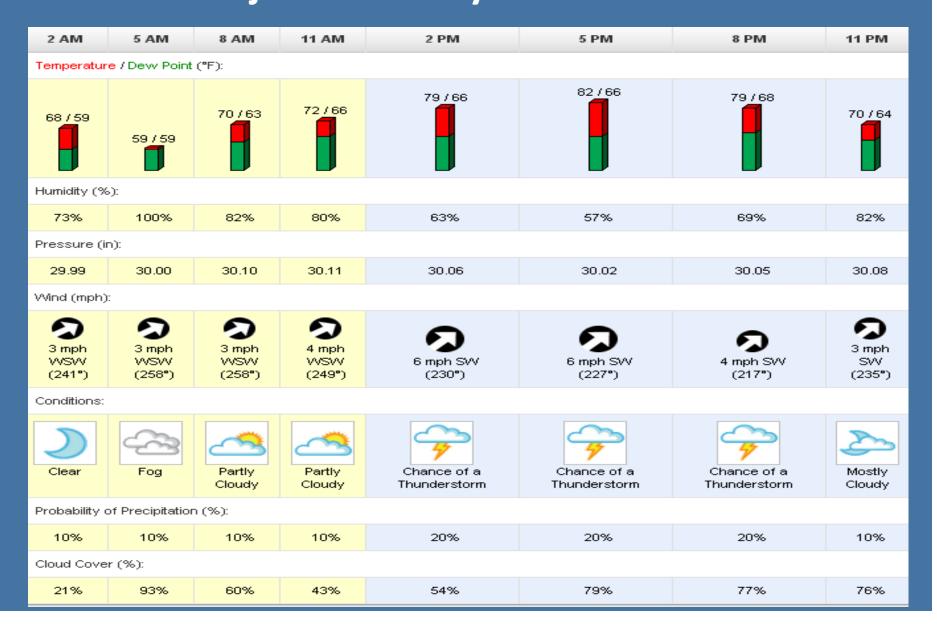
Purity %: TBD

Dispersion Accuracy%: TBD

Heading of Dispersion: Mixed

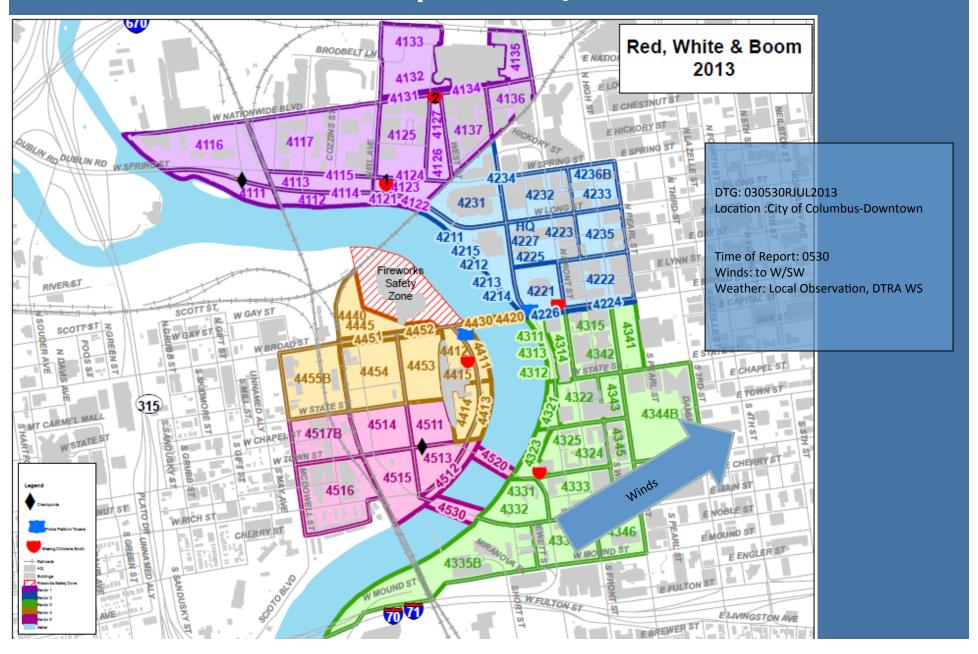
#### 03 JUL 2013

# RWB 2013 Projected Hourly Weather Forecast



### Sector View

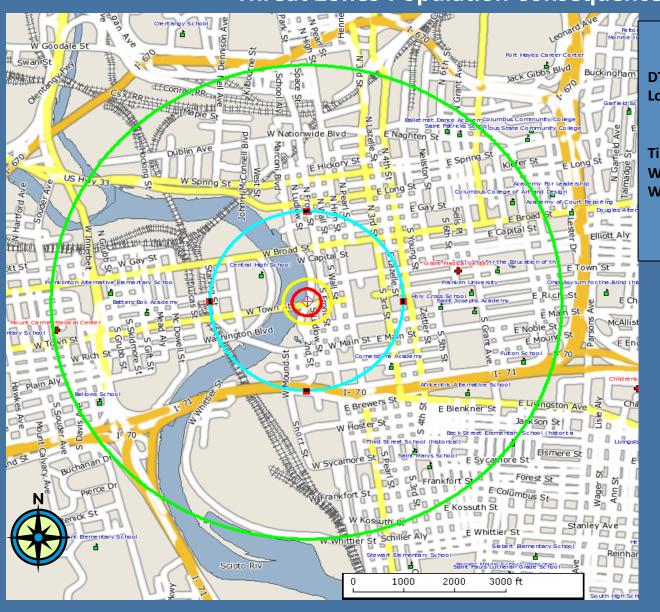
# **Emergency Response Plot Area of Operations/Hazards**



### **Emergency Response Plot**

View- 4.0 Mi

### **Threat Zones-Population Consequences**



DTG: 030530RJUL2013

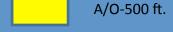
**Location : City of Columbus-Downtown** 

Time of Report: 0530

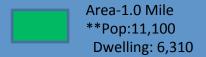
Winds: to W/SW

**Weather: Local Observation, DTRA WS** 







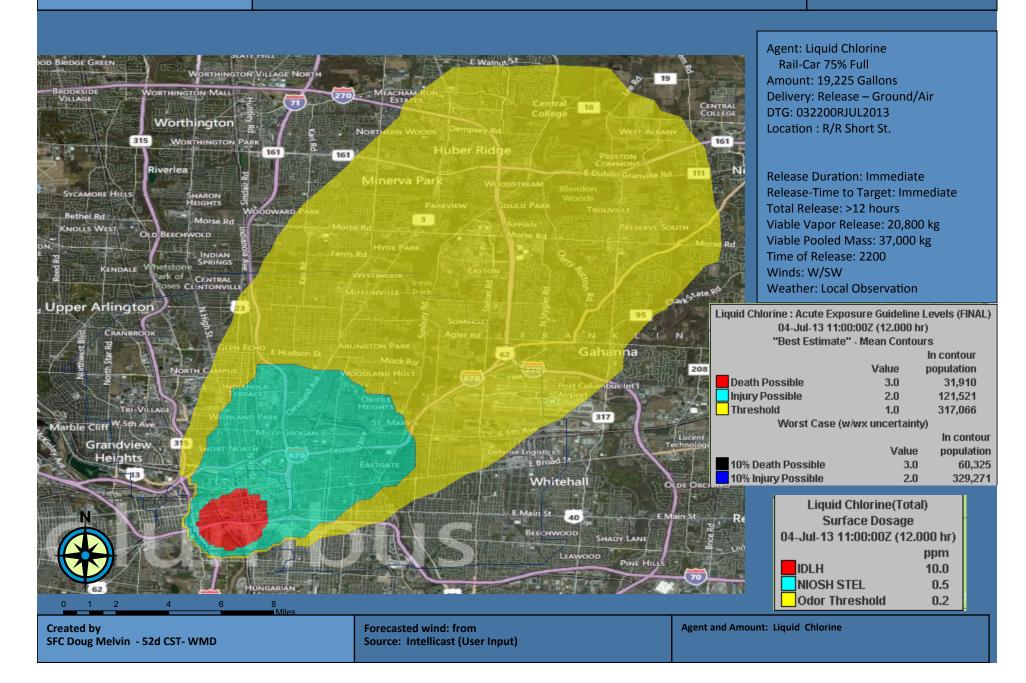


Based on 2010 U.S. Census

\*\* 250,000 + increase in area for
day of event.

# Hazard Plot Chlorine Release Incident Lat/Long: 39.951513 -83.00632

HPAC/ARCMAP



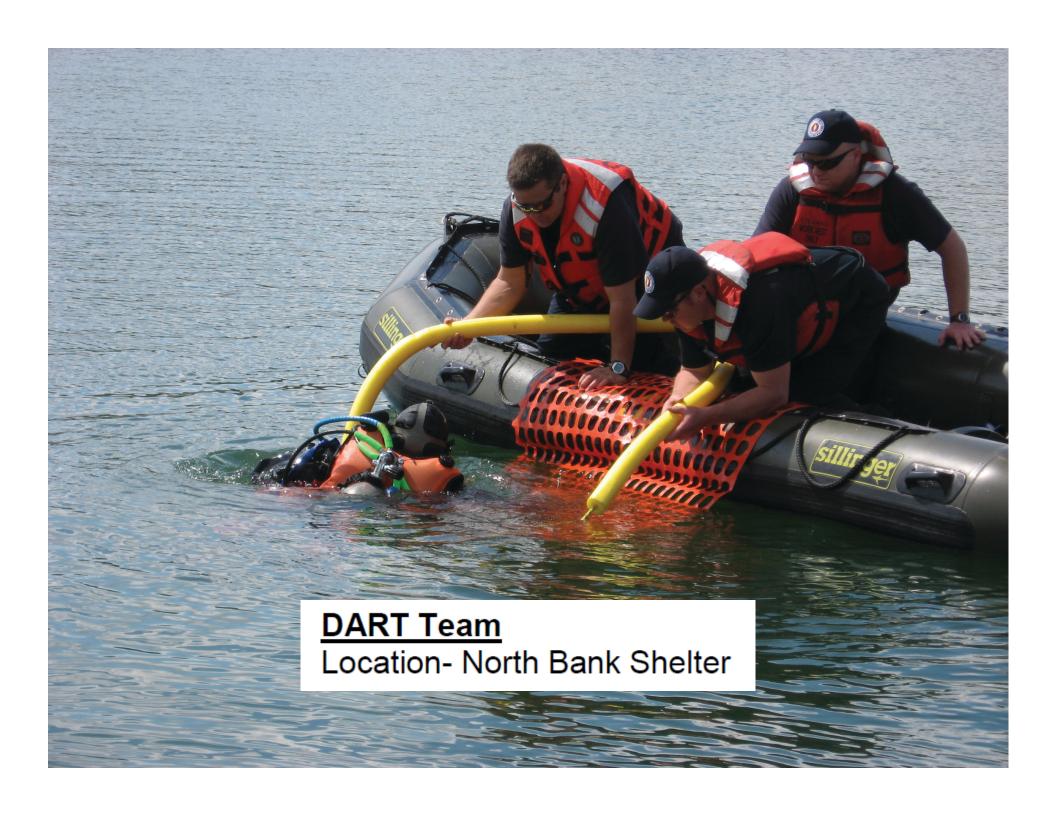
### **Boats**

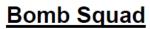
Boat #1 - Scioto River (North of Broad St)

Boat #2 - Scioto River (South of Broad St)

\*\* Boat members consist of 3-I/C Rescue Tech's.

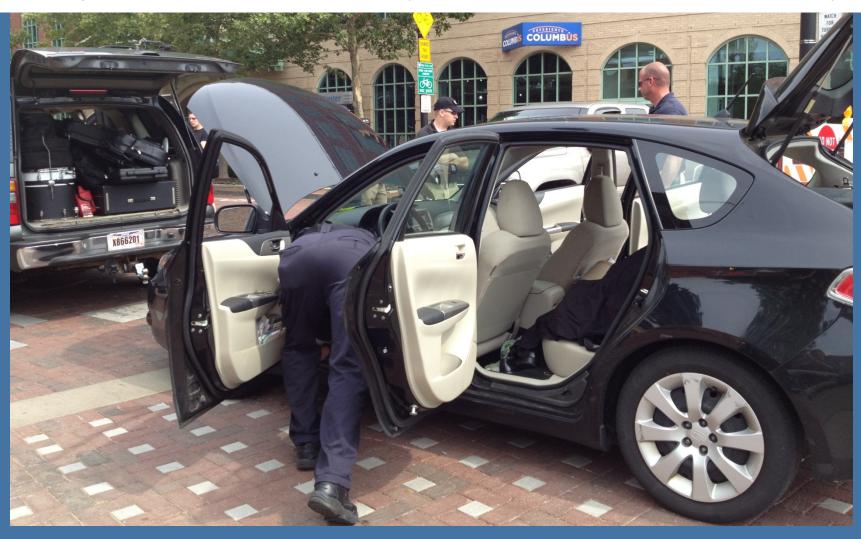






Bomb Squad – Assessment Team Bomb Squad – Assessment Team

(East Side of river, staffed with Teams TBA) (West Side of river, staffed with Team TBA)



### **Assessment Teams**

The Bomb Squad and CPD personnel have developed a Joint Hazard Assessment Team (JHAT). If you become aware of a situation that warrants investigation contact the EOC with the location and request an Assessment Team.

Do not transmit the term "Bomb Squad" over the radio.



### **Bike Medics**

There will be two Bike Medic teams assigned with CPD bike patrols.

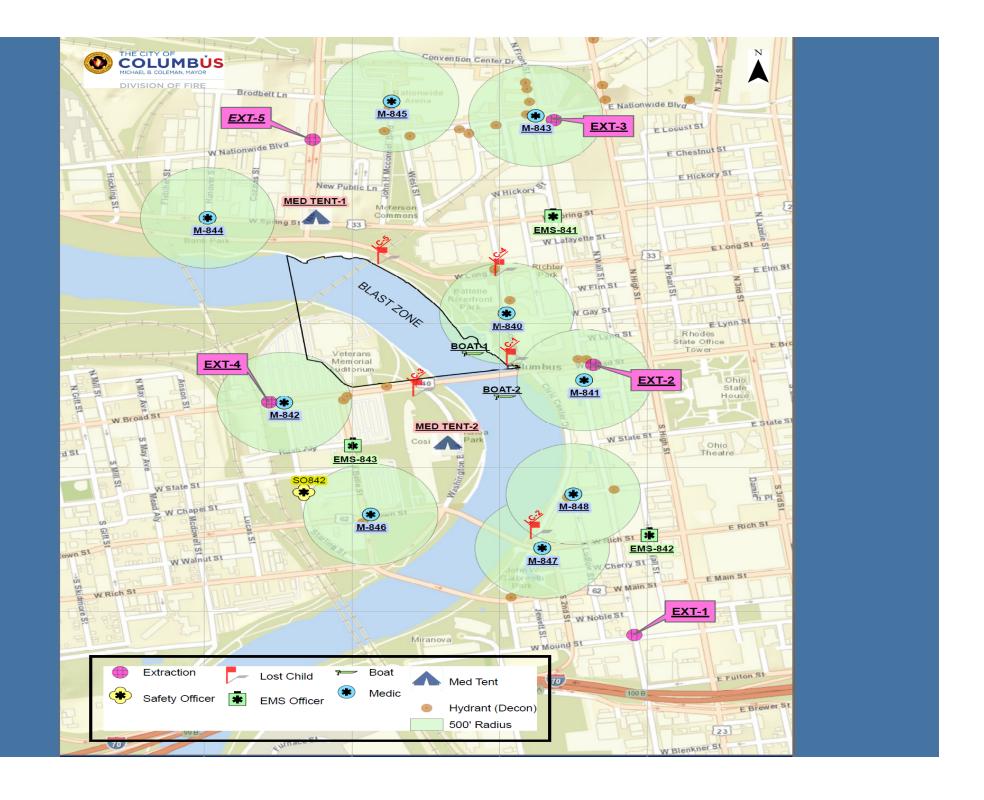
Bike 1 Captain Mitch Brooks with Bike 3 FF Mike Eberts (West of the river and Whittier) Bike 2 Captain Secrest with Bike 4 FF Dave Gerold (East of the River)



# **BIKE MEDICS VERY BUSY!!!**





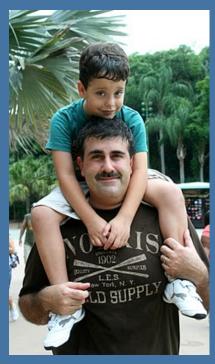




# You've been exposed to the elements all day You're hot You're tired You have a long walk You're carrying coolers and chairs







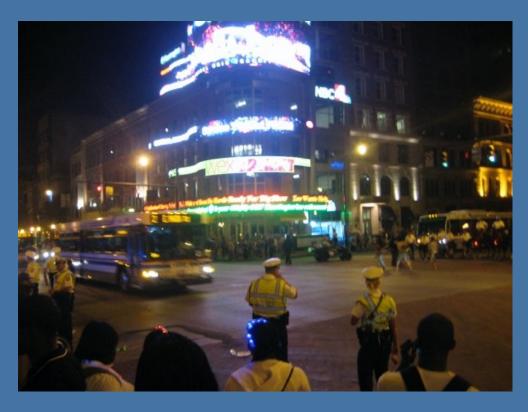




# YOU JUST WANT TO GET HOME!!!

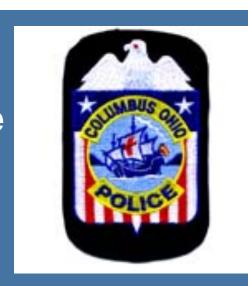






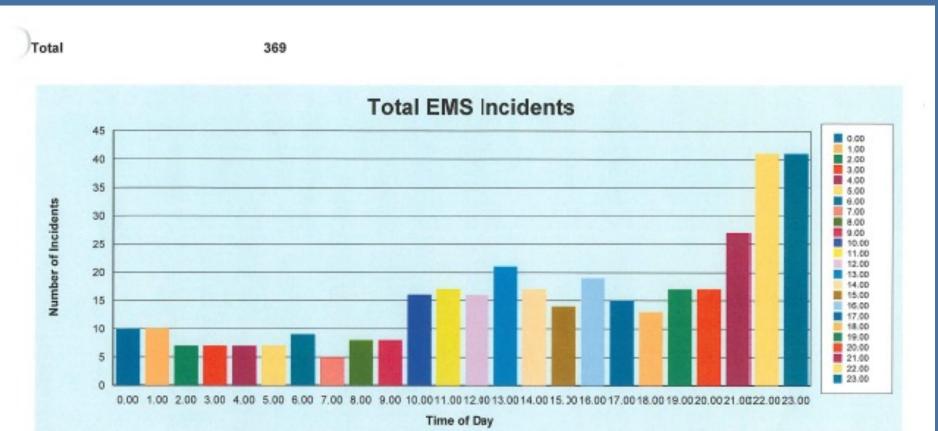


Officer Keith L. Evans
Entered Division of Police
March 16, 1970
Died In the Line of Duty
July 9, 1995



In the late evening hours of July 3, 1995, Officer Keith L. Evans, 47, was directing traffic on West Broad Street west of I-70 following Columbus' Fourth of July "Red, White and Boom" celebration. A motorist allegedly disregarded Officer Evans' traffic commands and struck Officer Evans with his vehicle. Officer Evans was transported to Mt. Carmel Medical Center where he succumbed to his injuries on July 9, 1995. The motorist, who left the scene, was apprehended and charged. His wife and two children survive Officer Evans, a 25-year police veteran.

### EMS incidents by time of day -7/3/2007



- 258 EMS runs dispatched between 12 noon and midnight July compared with 273 runs on average dispatched in 24 hours all other days
- On average one EMS run dispatched every 90 seconds from 2200-2400
- From 2400-0400 80 EMS runs dispatched or one every 3 minutes

Incident #		Address	Vehicle	<u>Disposition (Result)</u>
12092868	7/3/2012 11:01:48AM	400 N HIGH ST	Medic 1	TREATED, TRANSPORTED
	Impression: LACERATION			
12092943	7/3/2012 1:20:26PM	W 5TH AVE/ASHLAND AVE	Medic 35	CANCELLED by FAO
	Impression:			
12092948	7/3/2012 1:30:14PM	91 SCHULTZ AVE	Medic 37	TREATED, TRANSPORTED
		RATIVE COMPLICATION		
12092983	7/3/2012 2:30:16PM	1051 W 1ST AVE	Medic 35	CANCELLED by FAO
	Impression:			
12092989	7/3/2012 2:33:00PM	SULLIVANT AND PRINCE	Medic 37	CANCELLED by POLICE
	Impression:			
12093024	7/3/2012 3:27:00PM	NEIL AND SPRING	Medic 844	REFUSED TREAT/TRANS
	Impression: BURNS			
12093025	7/3/2012 3:29:00PM	3444 CORBY DR	Medic 38	CANCELLED by FIRE COMPANY
	Impression:			
12093030	7/3/2012 3:34:00PM	SULLIVANT AND 70	Medic 37	GONE ON ARRIVAL
	Impression:			
12093044	7/3/2012 3:48:00PM	2281 S HIGH ST LOT 1	Medic 38	REFUSED TRANSPORT
	Impression: ANXIETY			
12093049	7/3/2012 3:51:00PM	NEIL AND HANOVER	Medic 844	REFUSED TREAT/TRANS
	Impression: SPRAIN / ST			,
12093058	7/3/2012 4:29:00PM	NEAL AND NATIONWIDE	Medic 845	PT EVAL ONLY
.2022	Impression: ALCOHOL AE		11100.00	
12093070	7/3/2012 4:50:00PM	1285 E MOUND ST	Medic 38	REFUSED TREAT/TRANS
120555.	Impression: GENERAL ILI		WIGGIG 55	RELOGED THE TITLE
12093082	7/3/2012 5:09:00PM	864 E MOUND ST	Medic 38	CANCELLED by POLICE
12093002	//3/2012 5:09:00PM Impression:	864 E MUUNU ST	MEGIO SS	CANCELLED BY FOLIOL
12093083	7/3/2012 5:09:25PM	W TOWN ST/S LUDLOW ST	Medic 848	CANCELLED by FIRE COMPANY
12093000	//3/2012 5:09:25PM Impression:	W TOWN SI/S LUDLOW SI	MEGIC 070	CANCELLED BY LINE CO
12093084	7/3/2012 5:13:28PM	VINE ST/NEIL GOODALE CONNECTOR	Modic 35	CANCELLED by FAO
12093004		VINE ST/NEIL GOODALE CONNECTOR	Medic 35	CANCELLED by FAG
: 222093	<u>Impression:</u> 7/3/2012 5:23:50PM	OT (2 ) UDI OW CT	M-dia 28	TO A NODODTED
12093083	7/3/2012 5:23:59PM Impression: ABRASION /	W TOWN ST/S LUDLOW ST / SCRAPES / SCRATCHES	Medic 38	TREATED, TRANSPORTED
			Manalia 27	TANGRORIED
12093109	7/3/2012 5:50:29PM	437 HOLTON AVE	Medic 37	TREATED, TRANSPORTED
12144	Impression: SUICIDAL	THE PART OF	22 11 040	
12093111	7/3/2012 5:55:55PM	WASHINGTON BLVD/W BROAD ST	Medic 842	TRANSFER TO CFD MEDIC
	Impression:			
12093118	7/3/2012 6:04:00PM	BROAD ST AND FRONT	Medic 841	SUBJECT HAD NO COMPLAINT
	Impression:			
12093122	7/3/2012 6:07:00PM	120 MARCONI	Medic 840	REFUSED TREAT/TRANS
	Impression: HEAT EXHAU			
12093142	7/3/2012 6:35:25PM	924 E MAIN ST	Medic 38	TREATED, TRANSPORTED
	Impression: CHEST DISC			
12093151	7/3/2012 6:49:00PM	LONG	Medic 840	PT EVAL ONLY
	Impression: ASTHMA			
12093173	7/3/2012 7:24:00PM	BROAD ST AND STARLING	Medic 842	REFUSED TRANSPORT
	Impression: HEAT EXHAU	USTION		
12093183	7/3/2012 7:49:00PM	BROAD ST CIVIC CENTER DR	Medic 842	REFUSED TRANSPORT
	Impression: HEAT EXHAU	.USTION		
12093196		LANE	Medic 840	PT EVAL ONLY
12093196	7/3/2012 8:15:00PM	DAINE		

Incident #	<u>Dispatched</u>	<u>Address</u>	<u>Vehicle</u>	Disposition (Result)
12093227	7/3/2012 9:06:00PM <u>Impression:</u> OK ON ARRIVA	120 MARCONI BLVD AL	Medic 840	REFUSED TREAT/TRANS
12093250	7/3/2012 9:30:00PM <u>Impression:</u> OK ON ARRIVA	TOWN AND WASHINGTON AL	Medic 846	NO CARE INDICATED
12093235	7/3/2012 9:35:00PM  Impression: HEAT EXHAUS	FRONT A RICH TION	Medic 847	REFUSED TRANSPORT
12093259	7/3/2012 9:43:00PM <u>Impression:</u> ALCOHOL ABU	399 S FRONT ST SE	Medic 38	TREATED, TRANSPORTED
12093263	7/3/2012 9:47:00PM <u>Impression:</u> OK ON ARRIVA	LANE AL	Medic 840	PT EVAL ONLY
12093280	7/3/2012 10:14:00PM  Impression: OK ON ARRIVA	BROAD AL	Medic 840	PT EVAL ONLY
12093229	7/3/2012 10:20:00PM <u>Impression:</u> SEIZURE(S)	BROAD AND FRONT	Medic 841	TREATED, TRANSPORTED
12093282	7/3/2012 10:22:00PM  Impression: GENERAL ILLN	300 S FRONT IESS	Medic 848	REFUSED TREAT/TRANS
12093310	7/3/2012 10:37:00PM <u>Impression:</u> WEAKNESS	CIVIC CENTER AND RICH ST	Medic 38	TREATED, TRANSPORTED
12093353	7/3/2012 11:13:00PM <u>Impression:</u> LACERATION/	650 W NATIONWIDE BLVD CUT	Medic 844	TREATED, TRANSPORTED
12093357	7/3/2012 11:17:00PM <u>Impression:</u> NAUSEA	155 W NATIONWIDE BLVD	Medic 845	REFUSED TREAT/TRANS

### RED WHITE & BOOM RUN REPORT 2013

DATE	Incident #	Dispatch Time	Address	Medic	Impression	Disposition
7/3/2013	13085600	1645	RICH ST / CIVIC CTR DR	M847	DIZZINESS/VERTIGO	REFUSED TREAT/TRANS
7/3/2013	13085648	1800	200 NATIONWIDE BLVD	M843	ANXIETY	REFUSED TREAT/TRANS
7/3/2013	13085661	1857	W BROAD ST/ WASHINGTON	M10	DEHYDRATION	TRANSPORTED/MTCW
7/3/2013	13085695	1932	200 NATIONWIDE BLVD	M843	ILL PERSON	PT EVAL ONLY
7/3/2013	13085692	1939	TOWN ST/ CIVIC CENTER DR	M842	FALL	REFUSED TREAT/TRANS
7/3/2013	13085708	2014	379 W BROAD ST	M842	ALLERGIC/REACTION	REFUSED TREAT/TRANS
7/3/2013	13085713	2027	CIVIC CENTER DR	M848	SYNCOPE	PT EVAL ONLY
7/3/2013	13085725	2055	80 W BROAD ST	M841	ILL PERSON	NO COMPLAINT
7/3/2013	13085749	2140	W BROAD ST/ CIVIC CENTER DR	M841	OK ON ARRIVAL	REFUSED TREAT/TRANS
7/3/2013	13085780	2223	300 W BROAD ST	M10	LABOR	TRANSPORTED/MTCW
7/3/2013	13085809	2254	329 E BROAD ST	M30	BACK PAIN	TRANSPORTED/GRANT
7/3/2013	13085814	2303	400 W BROAD ST	M10	LEG PAIN	TRANSPORTED/MTCW
7/4/2013	13085851	2400	200 NATIONWIDE BLVD	M843	CHEST DISCOMFORT	REFUSED TREAT/TRANS

# QUESTIONS??????????

