COUNTY-WIDE GIS WEB-BASED CRASH DATA ANALYSIS SYSTEM

Traffic Engineering Division of Public Works & Miami-Dade County MPO.

Executive Summary

The purpose of this project is to provide a GIS-based county-wide crash data system that allows traffic engineers and planners to analyze crashes in all the county roads to determine priority locations and predominant crash types in order to identify appropriate engineering and education solutions. The system helps users identify and map all types of crashes including pedestrian and bicycle crashes. Using the system, users can determine high crash locations such as intersection and streets segments using the number of crashes, the traffic volume and the injury severity. In addition, the system provides crash intersection diagrams, tables, charts, summarized reports and links to original crash reports. The system is hosted at the Public Works department. The web-based system architecture allows other County staff to access the system using a web browser such as Internet Explorer. The system can be made available through the web to other interested agencies e.g. the law enforcements that can use the system to support enforcement measures.

The crash data is obtained from the Florida Department of Highway Safety and Motor Vehicles (DHSMV). At present the system contains three-years of data from 2005 to 2007 of long form crashes. The 2008 data is currently being processed and it should be available in the next 4-6 weeks. Starting this summer it is expected that HSMV will be releasing the crash data on a more complete and timely fashion which will ensure that the county-wide cash information is up to date.

Public Works and the MPO plan to continue their collaboration to support the maintenance of the system in the future to support the County needs for improvement of traffic safety in the county roadways by reducing crashes and saving lives.



Miami-Dade Intersection Crashes (2001)

COUNTY-WIDE CRASH DATA ANALYSIS SYSTEM

Ilir Bejleri Geoplan Center – University of Florida

Purpose

 To support the County needs for improvement of traffic safety in the county roadways

Requirements

- Provide access to crash records
- Analyze all crashes in the County roads
- Identify predominant crash types and high crash locations
- Widely accessible
- Easy to use
- Updated frequently

System Features

- Crash Data Import
- Crash Mapping
- Crash Analysis
- Statistical Reports
- System Administration

Crash Data Import

- Data Source: Freely available from Florida HSMV
- 50,000 60,000 long form crashes per year

 Data includes digital records and scanned images of police crash reports

Crash Mapping

- Uses Geographic Information Systems (GIS) to map crashes
- Parking lot or private property locations are excluded
- 93 95% match rate
- Uses Miami-Dade GIS road network

Miami – Dade Roads

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Miami – Dade 2007 Crashes - Close Up 1





Crash Analysis

- Used to determine problematic areas
- Summarizes crashes by intersections and streets
- Query specific crash types e.g. bicycle or pedestrian crashes
- Intersection analysis by crash type such as rear-end, left turn, side swipe etc.







Miami – Dade 2007 Crashes Summarized by Intersection - Close Up 1







Crash Analysis Options

- Data Range
- Geography (City, Street, Intersection)
- Injury Severity
- Damages
- Harmful events
- Contributing Causes
- Lighting Condition
- Traffic Control

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	2	BISCAYNE BLVD & A	VENTURA BLVD/US-1 RAMP VE 187TH ST	68	N/A N/A	1.2650	-	9	\$181,18	4									
	3 BISCAYNE BLVD & WILLIAM LEHMAN CSWY		VILLIAM LEHMAN CSWY	66	N/A	1.2270		8	\$169.92	7									
	4	BISCAYNE BLVD & F	E 203RD ST	66	N/A	1.4390	1	7	\$208,03	4									- 11
	s	BISCAYNE BLVD & F	INE 186TH ST/NE 185TH ST	65	N/A	1.1380		3	\$142,95	0									- 11
	6	SW 27TH AVE & S D	IXIE HWY/SW 27TH LN	65	N/A	1.3540	1	6	\$238,96	1									- 11
	1	ALTON RD & MACAR	THUR CSWY/STH ST	61	N/A N/A	1.0490		1	\$162,96	6									- 11
	9	NW 27TH AVE & NW	20TH ST/NW N BIVER DR	58	N/A N/A	1.4330	1	12	\$203.80	6									- 11
	10	SW 42ND AVE & 5 0	DIXIE HWY	54	N/A	1.2220		4	\$224,86	8									- 11
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	Rank	Segment	From-To	5		Crash	Crash	Crash	Fatalities	Injuries	Damages								
	1	BISCAYNE BLVD	AVENTURA BLVD/US 1 RAM	P to NE	203RD ST	60	N/A	1.15		3	\$147,278								
	2	SR 826 EXT	SR 826 RAMP to NW 25TH	ST		58	N/A	1.4140		10	\$291,826								
	3	BISCAYNE BLVD	WILLIAM LEHMAN CSWY			58	N/A	1.31		7	\$120,445								
	4	MACARTHUR COWY	S FOUNTAIN ST tO BRIDGE	кD		39	N/A	1.1000		2	8203,134								
	6	BISCAYNE BLVD	NE 185TH ST/NE 186TH ST	to NE 187TH ST		47	N/A	1.1280		4	4 \$116,903								
	7	AVENTURA BLVD	BISCAYNE BLVD/US 1 RAM	P		46	N/A	1.2610		5	\$118,656								
	8	I 95 EXPY	NW 79TH ST to I 95 RAMP			46	N/A	1.3260		8	\$224,910								
	9	BISCAYNE BLVD	NE 203RD ST to US 1 RAME			46	N/A	1.37	1	3	\$121,504								
	10	BISCAYNE BLVD	NE 187TH ST to NE 1915T	ŞT		44	N/A	1.4090		7	\$106,092								
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2	74295173	NE 22 ST	BISCAYNE BV		0 Clear	No	12/8/2007	3:45 PM	922972.6249	533142.9376 W B	icycle	
3	90945124	SW 152 AVE	SW 155 TR	N	200 Clear	No	12/8/2007	6:10 PM	839701.0721	499818.5377 W B	lcycle	
4	74252827	DADE BVLD	WASHINGTON AVE	E	20 Cloudy	No	12/11/2007	5:04 PM	941705.1663	533343.8441 W B	icycle	
5	73385566	SW 4 ST	SW 106 AVE		0 Rain	No	12/13/2007	6:05 PM	864599.2499	520750.6251 W B	icycle	
6	80103999	NE WILLIAM LEBMAN	CW BISCAYNE BLVD	E	10 Clear		12/16/2007	10:35 PM	936522.98	590283.3649 W B	icycle	
7	72327684	NE 2 AVE	NE 46ST		0 Clear	No	12/18/2007	5:57 PM	922109.8125	540312.0624 W B	lcycle	
8	80104022	NE 186TH ST	BISCAYNE BV	E	20 Clear	No	12/20/2007	4:51 PM	936469.177	587468.9005 W B	icycle	
9	74381889	SW 37 AVE	S DIXIE HWY		0 All Othe	r No	12/20/2007	5:15 PM	901782.4375	509217.5625 W B	icycle	
10	71933896	100 SW 8 ST	UK		0 Clear		12/22/2007	1:50 AM	828067.6074	410670.5625 W B	icycle	
11	74276786	GRAND AVE	PLAZA ST	E	10 Clear		12/23/2007	3:45 AM	902651.125	507433.2499 W B	lcycle	
12	74578774	NE 153 ST	N MIAMI AVE		0 Rain	No	10/4/2007	4:45 AM	902651.125	507433.2499 W B	icycle	
13	74586562	10515 NW 12 AVE	PRIVATE PROPERTY		0 Clear	No	11/16/2007	5:45 AM	902651.125	507433.2499 W B	icycle	
14	74493688	11 ST	COLLINS AVE SRA1A	E	20 Clear	No	1/1/2007	12:39 AM	941994.7538	527315.8127 E Pe	destrian	
15	74530457	W FLAGLER ST	SW 29 AVE	W	200 Clear	No	1/1/2007	6:03 PM	905644.3387	523628.0381 E Pe	destrian	
16	74397740	SW 8 ST	SW 16 AV	w	50 Cloudy	No	1/2/2007	2:45 PM	912446.1927	521274.9602 E Pe	destrian	
17	72017543	NW 15 ST	NW 87 AV	ε	15 Clear	No	1/4/2007	10:00 AM	874355.0005	529006.1444 E Pe	destrian	
19	76931522	STATE ROAD 112 195	STATE ROAD 5 US 1	E	0 Cloudy	No	1/6/2007	5:30 AM	933641.0461	537695.1708 E Pe	destrian	
23	73298009	SW 74 ST	SW 67 AVE	ε	50 Cloudy	No	1/11/2007	8:15 AM	886268.6763	497992.6784 E Pe	destrian	
25	74254366	SR 907 ALTON RD	10 ST		0 Cloudy	No	1/14/2007	4:20 PM	938868.4999	526842.9999 E Pe	destrian	
26	76942290	EB SR 994	SW 112 AVE	W	100 Cloudy		1/14/2007	6:40 PM	860963.9083	458094.7192 E Pe	destrian	
28	74533927	SW 8 ST SR 90	SW 4 AVE	ε	200 Clear	No	1/18/2007	10:45 PM	919443.2306	521512.4757 E Pe	destrian	_
29	76937399	SR 860	NE 18 AVE		0 Clear	No	1/19/2007	6:18 PM	930585.3125	586276.0623 E Pe	destrian	_
30	71606715	OLD CUTLER RD	MATHESON HAMMOCK RD		0 Cloudy	No	1/20/2007	4:04 PM	895127.2643	489831.0902 E Pe	destrian	
31	73839620	NW 103 ST	NW 77 AVE	W	100 Clear	No	1/21/2007	12:15 PM	878538.5482	557806.2683 E Pe	destrian	
32	73942554	71 ST SR 934	RUE VERSAILLES	W	30 Clear	No	1/22/2007	10:02 AM	942369.9306	553881.6138 E Pe	destrian	
33	74295706	SW 22 ST	SW 14 AVE	E	12 Clear	No	1/24/2007	10:50 AM	913439.308	515940.301 E Pe	destrian	
34	75544769	5851 NW 177 ST WALMAR	г ик		0 Clear	No	1/24/2007	4:00 PM	913439.308	515940.301 E Pe	destrian	_
35	74561579	NW 47TH AVE	NW 183RD ST	\$	20 Cloudy	No	1/25/2007	10:16 AM	893615.7363	584404.984 E Pe	destrian	
36	71943543	20335 BISCAYNE BV	PRIVATE PROPERTY		0 Clear	No	1/28/2007	4:35 PM	893615.7363	584404.984 E Pe	destrian	
37	74558827	NW 79 ST	NW 3 AVE	w	50 Clear	No	1/28/2007	7:50 PM	918332.8254	550972.8589 E Pe	destrian	
38	76442708	1005 W 29 ST	ALLEYWAY		0 Clear		1/30/2007	2:55 PM	918332.8254	550972.8589 E Pe	destrian	
39	76943605	SR 860 NE 183RD ST	NE 19TH ST		0 Clear	Yes	1/30/2007	9:58 PM	931691.1043	586989.8185 E Pe	destrian	_
40	73861193	NW 107 ST	NW 22 AVE	E	1320 Clear	No	1/31/2007	5:28 PM	909301.9231	560021.1496 E Pe	destrian	
41	70547869	NW 78 ST	2 AVE		0 Clear	No	2/7/2007	7:57 AM	918961.3125	550694.4375 E Pe	destrian	
42	74464486	COLLINS AV SR A1A	178 ST		0 Clear	No	2/7/2007	10:28 AM	944927	585374.9375 E Pe	destrian	
43	76442287	W 4 AV	W 68 ST		0 Clear		2/7/2007	6:58 PM	889072.5	564272.8125 E Pe	destrian	
44	72430445	831 NW 8TH ST	831 NW 8TH 5T		0 Clear		2/8/2007	7:25 PM		E Pe	destrian	
45	73452146	SR 934	5R 934	W	80 Clear	No	2/10/2007	12:05 AM	936874.343	551503.9734 E Pe	destrian	_
46	75494537	MIAMI AIRPORT TAXI	STORAGEE PERIMETER RD BUS LOOI	PWW	156 Cloudy	No	2/11/2007	4:05 PM		E Pe	destrian	_
47	75598942	NW 183 ST	NW 37 AVE		0 Rain	No	2/12/2007	12:25 AM	898893.9376	584689.375 E Pe	destrian	
48	74435195	W 41 ST	W 16 AVE		0 Clear	No	2/13/2007	3:55 PM	881539.3126	554990.8126 E Pe	destrian	
-40	74600010	ANA/ AE CT	MIA/ 33 AVE	10	15 Clear	hin.	3/14/3007	10-75 644	000704 0231	E10040 7400 E Da	doctrion	

Advanced Analysis in ArcGIS



Statistical Reporting

General Statistics

- Time of the day
- Day of the week
- Alcohol use
- Contributing cause
- Harmful event
- Lighting condition
- Vehicle type
- and more...

Statistical Reporting

Intersections Reports

- Crash County
- Crash Rate
- Crash Severity

Annual Comparative Reports

- Crashes by Year
- Fatalities by Year

Fatal Locations Report

- Signalized Intersections
- Non-signalized Intersections











System Hosting and Access

- Will be hosted at Public Works
- Access through the intranet
 - Internet Explorer or other browsers
- Available to any agency that need access to this information
- Law enforcement should be encouraged to use it

Current Status

Data in the system now: 2005-2007

- Currently processing 2008 available in 4-6 weeks
- Finalizing GIS features
- System 95% complete
- Coming training

Next

- 2009 long form crash data are available on monthly basis
- Short forms may be available second half of 2009

 Support is needed to continuously upload and map the future crash data

