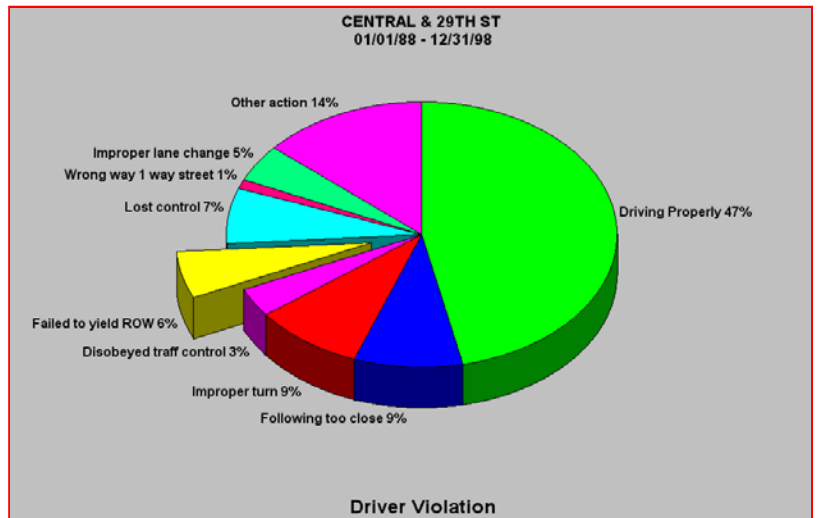
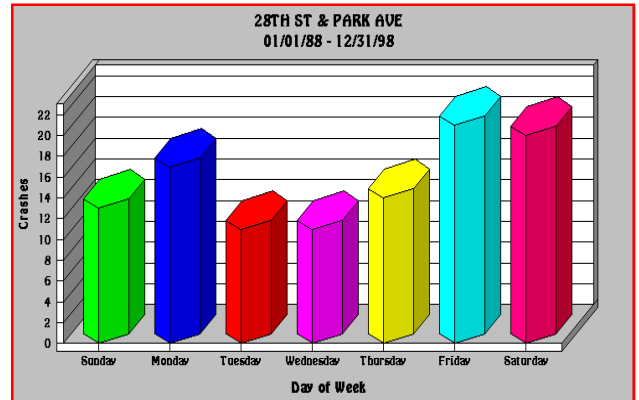
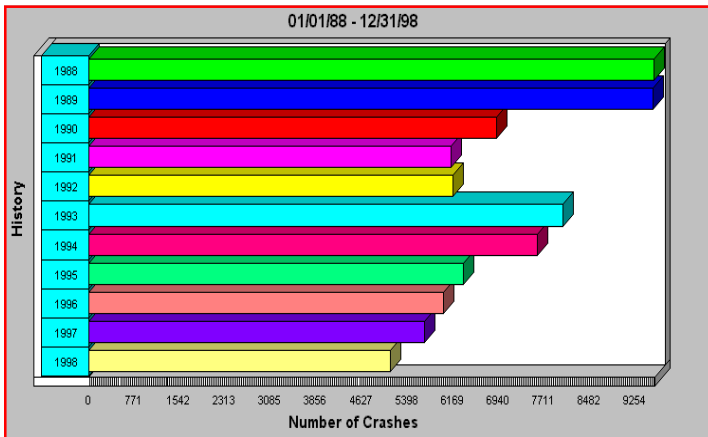
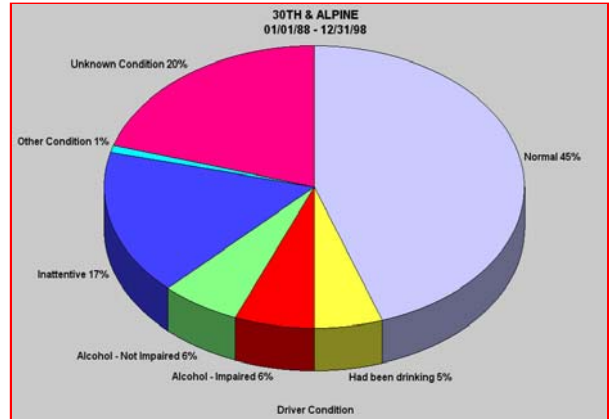
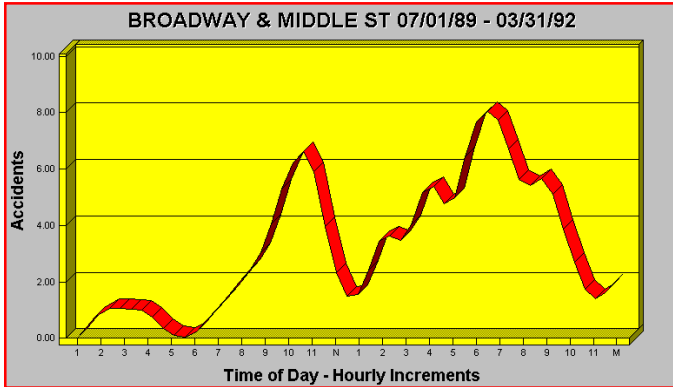
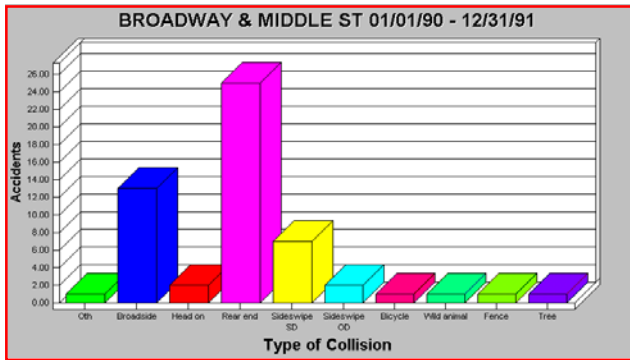


Intersection Magic Sample Charts

Chart any field, any way, easily!



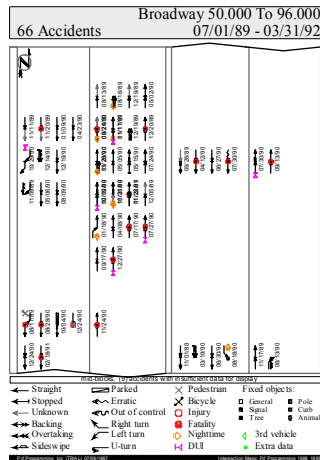
Intersection Magic can produce quality presentation charts quickly and easily utilizing any field in your database. Queries can be performed for any corridor, intersection, or spanning the entire database for a historical view.



Intersection Magic Sample Diagrams & Reports

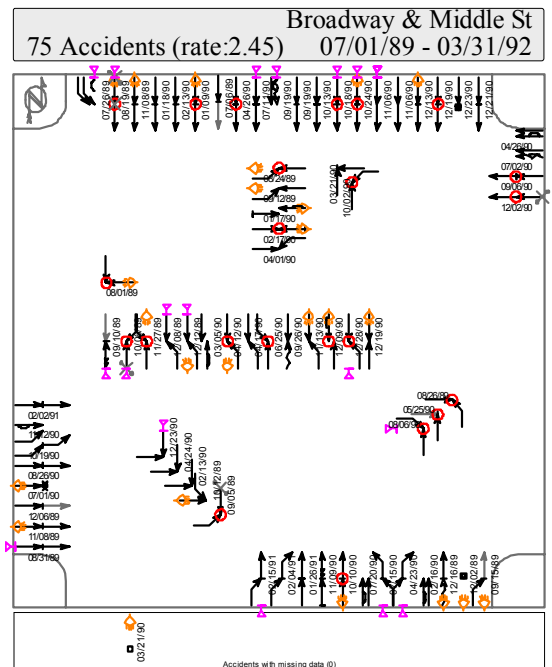
NEW! Users can now create their own schematics for specific intersections. These schematics are then remembered by the program each time that location is diagrammed.

High collision location lists (below) include rates, critical rates, and offer one-click access to diagrams.



Intersection Magic's diagrams can be changed to match a query for corridors, intersections, T-Intersections, mid-blocks, and more. They can also be configured to show labels, a key, comments, or even highlight collision graphics for a study.

#	Intersection name:	Count:	Volume:	Rate:	CRate:
1	28th St & Central Bl	50	31023	4.416	6.311
2	Broadway & Middle St	50	30520	4.488	6.321
3	28th St & Main St	44	27301	4.416	6.390
4	28th St & Campus Av	42	43605	2.639	6.124
5	28th St & North St	38	25231	4.126	6.442
6	28th St & Industrial Rd	36	19202	5.136	6.640
7	28th St & Middle St	36	17360	5.681	6.721
8	Division St & Main St	35	21345	4.492	6.560
9	Broadway & South St	34	0	0.000	0.000
10	28th St & Park Av	33	34064	2.654	6.256
11	30th St & Main St	32	27704	3.165	6.381
12	28th St & Evergreen Bl	30	0	0.000	0.000
13	Broadway & University	28	25100	3.056	6.446
14	30th St & Middle St	25	16938	4.044	6.741
15	Broadway & Central Bl	25	26682	2.567	6.405



Intersection Magic! (w:\canada\ontario\hamilton\cras)

Hwy 10 S N Of 53 & Mud 01/01/98 - 12/31/98
35 Accidents

Case ID#: 1998637768

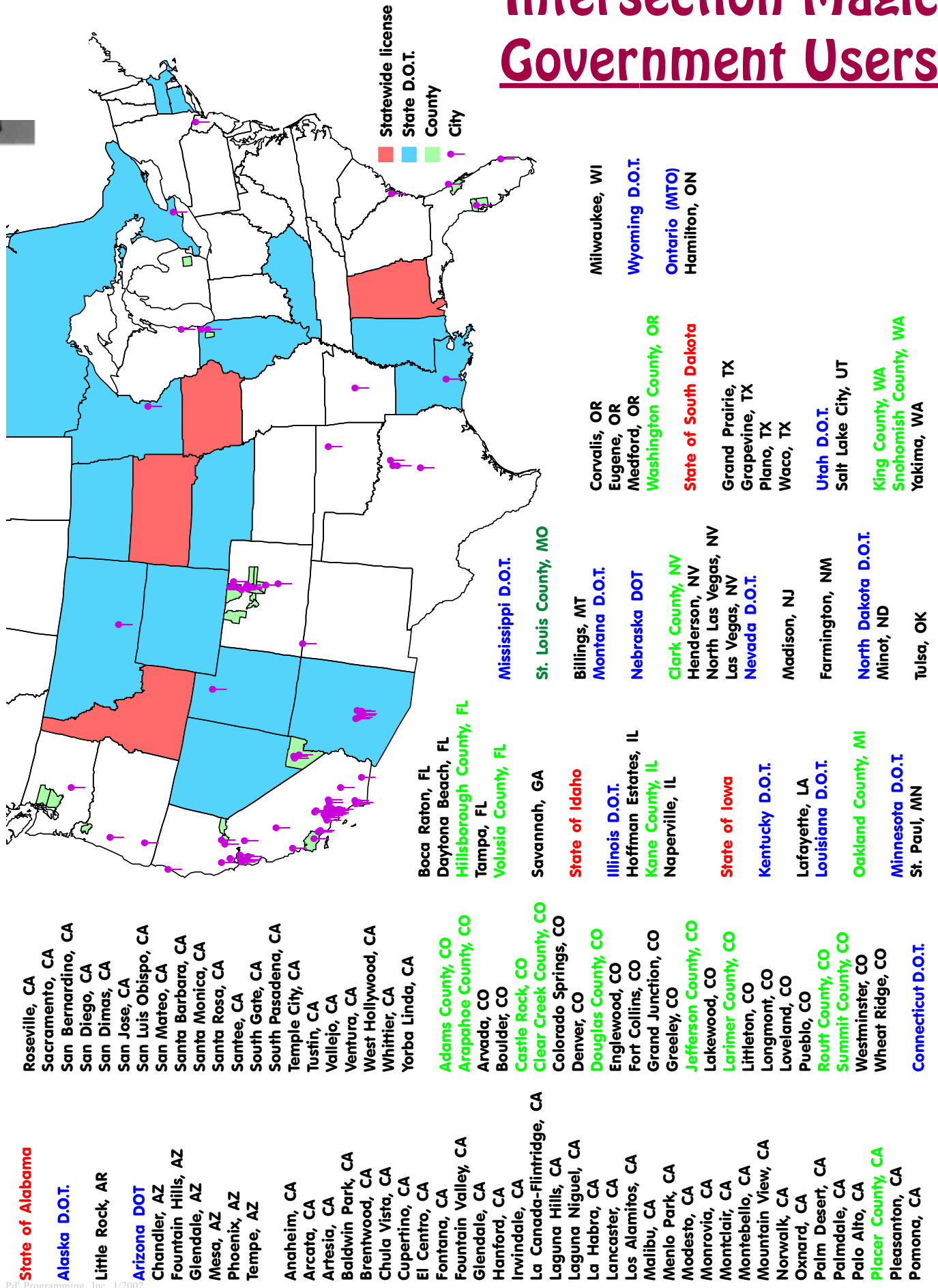
Select fields View report

ROAD 2 SURF COND
DRV 1 AGE 35
DRV 2 AGE 44
VEH 1 TYPE Passenger van
VEH 2 TYPE Delivery van
DRV 1 ACT Speed too fast
DRV 2 ACT Driving Properly

Intersection Magic allows you easy access to your collision data. It is completely interactive, including "drill-down" into collision data.

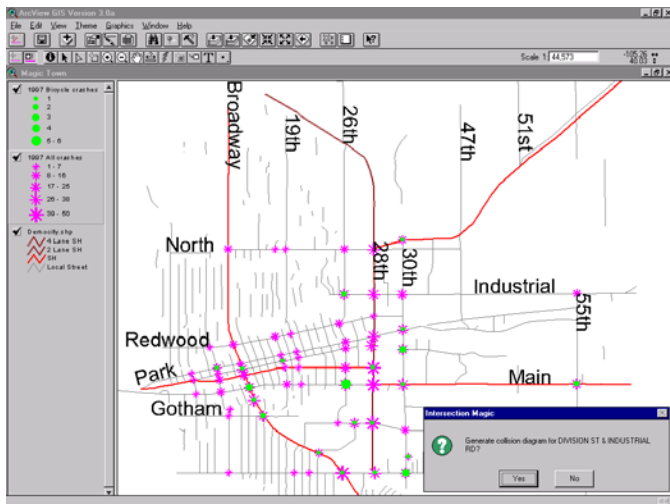
To review a single collision in detail, just click on it with your mouse to bring up the full report & a zoomed in picture of the graphic. Click again for the scanned image of the hardcopy report.

Intersection Magic Government Users



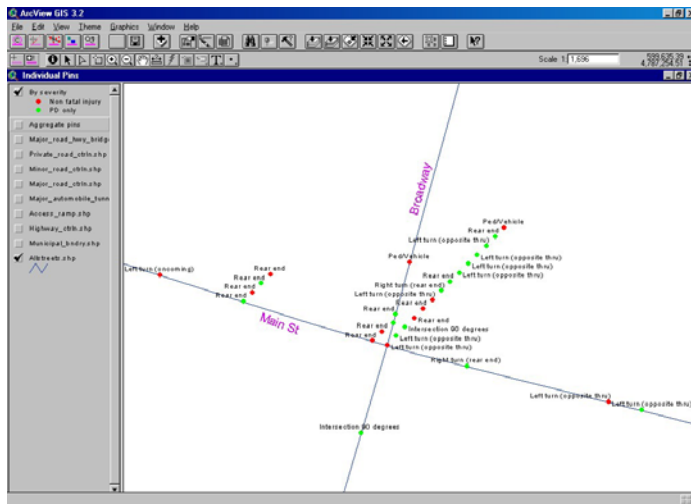
Map Magic add-on for Intersection Magic

Create automated pin maps from your high collision locations lists!
The Map Magic® add-on enables Intersection Magic*
to generate customized pin-maps in ArcView®



Aggregate data pin maps

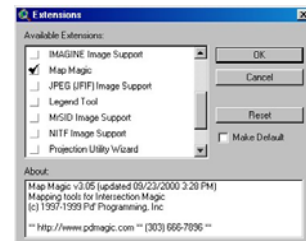
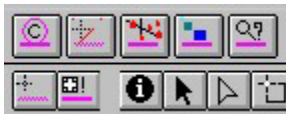
Both the high collision location list, (*i.e.* "top ten locations") and the sliding spot report are capable of producing pin maps. Simply click the ArcView button to generate a customized pin-map. From here, click on one of the locations for an instant collision diagram in Intersection Magic!



Individual crash pin maps

Gather a single diagram, or an entire city's worth of collisions. A couple of clicks and the collisions are represented as individual pins on the map! Color code the collisions, label them, etc. Since the pins are represented as actual ArcView themes, they can be manipulated with any standard ArcView tools.

Map Magic is an ArcView 3.x extension that communicates directly with Intersection Magic. Installing the extension causes new tools to be added to the ArcView button bars. The two-way communication enables Intersection Magic to create pin maps in ArcView, and it enables ArcView to create collision diagrams in Intersection Magic. Best of all, the process usually requires a minimum of manual geocoding! The process is automated by Map Magic.



If you already have Intersection Magic, ArcView and a quality base-map, great! Otherwise, contact us. As an authorized ESRI partner and developer, we can provide you with everything you need.

**Intersection Magic is a separate product, also available from Pd' Programming, which provides advance crash records analysis including statistics, collision diagrams and presentation graphics. Intersection Magic can read data from your existing database, or you can enter original data directly into the program. Being an add-on, Map Magic requires Intersection Magic in order to function.*



Intersection Magic

Data Details



Getting the data from your system to Intersection Magic

Data transfer:

Intersection Magic has been designed to support a wide variety of data formats. This data may be originate on a mainframe, mini, or micro computer. In some areas data may obtained directly from the state, California, Iowa, Oregon, Arizona and Idaho to name a few. In other areas, data is stored at police departments on mainframes. In still others, data is maintained on PC database programs. Intersection Magic supports all of these cases.

Format:

Two types of ASCII data can be read: fixed-field and character-delimited (CSV). Collision records may exist on one line, or span several lines and/or record types. Each ASCII line may be up to 2000 characters (bytes) in length.

Ranges:

Intersection Magic has several pre-defined fields: Case id; Primary and Cross Streets; Mile markers and hundred block locations; Distance from intersection; Date; and Time. The valid ranges for these fields is given in the box below.

In addition, *40 user-defined fields may also be stored.* These are numeric fields with a valid range of 0 to 254. If an existing collision database stores its data as text fields, a conversion to numbers will be necessary. Provisions for this conversion exist in IM. In this case, a table is created for each field describing how to convert text to numbers. During program execution, the user will still see and use text values for all functions. The numbers are just for internal program use.

Required Fields:

- ◆ Unique Case Id Number (up to 14 alpha-numeric characters)
- ◆ Date (in standard format mm/dd/[cc]yy, ccyyymmdd, etc)
- ◆ Primary and nearest Cross street names (up to 29 characters for each street)
- ◆ Intersection node number (not required if primary and cross streets are provided)
- ◆ Direction of travel for each of the involved vehicles (valid values: 0-255)
- ◆ Type of Collision (0-255) *It is important that this field indicate rear-end and sideswipe collision types.*

Strongly recommended Fields:

- ◆ Vehicle movements prior to collision (left turn, slowing, backing, straight, etc. 0-255)
- ◆ Distance & Direction from intersection (Distance 0-64,000; Direction 0-255)
- ◆ Indication of injuries (may be a "severity" field, or simply a "number of injuries" field. Range 0-255)
- ◆ Indication of fatalities (may be a "severity" field, or simply a "number of fatalities" field. Range 0-255)
- ◆ Indication of a pedestrian, bicycle, or fixed object (0-255)
- ◆ Lighting conditions (0-255)
- ◆ Driver or DUI conditions (0-255)
- ◆ Mile marker or hundred block (Miles +/- 2 million: nnnnnnn.nnn; Blocks +/- 2 billion: nnnnnnnnnn)

In order to configure data for use by the program, the following information is required:

- 1) A sample data file. This file must be in the ASCII delimited or fixed-field format described above.
- 2) A description of the data in the file (field names and layout).

Please visit our website, or contact us for a complete list of configuration requirements

Intersection Magic 2002 Pricing

Department and State-wide licenses



Pd' Programming's Intersection Magic for Windows pricing is for a "department" license. This means that it may be installed on as many computers as desired, within one physical building, within one department. It may also be installed on a local-area-network for use by a single department.

In order to make the software available to jurisdictions of all sizes, the cost is discounted based on the population of the purchasing jurisdiction. The table below shows the available discounts:

Intersection Magic department pricing:

City population:	Software:	Config:	Total:
Over 300,000	\$6500	\$1000	\$7500
100,001 - 300,000	5000	1000	6000
50,001 - 100,000	3500	1000	4500
Under 50,000	2500	1000	3500
Educational (your data)	1000	1000	2000
Educational (demo data)	35	free	35
County / State license			by quote
Thirty day demo			free

Pd' Programming makes Intersection Magic updates available on our website throughout the year. During the first year after purchase, updates are free. Subsequent years cost \$750 for users with the current version, and \$1000 for users with older versions.

Pd' Programming supports educational programs! A fully functional version of Intersection Magic, which is pre-configured to use a sample data set, is available to qualified institutions for a minimal cost.

These same institutions may purchase a normal copy of the program for the discounted price shown above.

Also available from Pd' Programming:

Map Magic (<i>Pd' link to ArcView</i>)	\$1000
ESRI's ArcView GIS software	\$1200
ESRI's Street Map	\$500
GDT centerline maps	by quote
On-site installation and/or training	\$750 + \$1000 / day
Technical support (<i>web/email/telephone</i>)	free*

** These services are provided free for one year, they are then renewed each time an upgrade is purchased.*

Consulting engineers:

The departmental license described above may extend to your office for the purpose of supporting, or working on, the analysis of data for that city. This extended license is granted to full-time consulting engineers and restrictions may apply, please contact Pd' Programming for details.

Also, contact Pd' Programming for reseller pricing. Partner with Pd' Programming to provide your services along with the very best analysis software available today.

Pd' Programming, Inc. 1/2002





Intersection Magic Technical Specifications

System and data requirements (version 6)

General

The Intersection Magic software program is currently installed on hundreds of PC's in city, county and state DOT offices across the country. From 1987 through 1993 Intersection Magic was a DOS based graphics application supporting network operations. Since 1994, Intersection Magic has been an MS Windows based program. The DOS version of the program was discontinued in 1996, however the program remains backwards compatible with respect to data files and user configurations and reports.

Intersection Magic has been successfully run in Windows emulators on MACs, and under the OS/2 Warp operating system. These configurations however, are not officially supported by Pd' Programming.

Operating Systems

Intersection Magic has been tested on all MS Windows operating systems. This includes:

- √ MS Windows '95 & '98
- √ MS Windows NT 3.51, 4.0, 2000, XP

Hardware

- ◆ Intel-based PC with a Pentium or better processor.
- ◆ Sufficient RAM for your operating system plus 16 Megabytes.
- ◆ 12 Megabytes of application hard disk space.
- ◆ Program database occupies about 1M per 5,000 crash records.
- ◆ Any video board supported by the operating system. (800x600 recommended)
- ◆ Any printer or plotter supported by Windows. (color recommended)

Network vs Stand-alone PC operation

The following types of installations are supported by Pd' Programming and documented in the Manual. The install program has been designed to make these types of installations straightforward to accomplish.

- ◆ Program, database and configuration on client
- ◆ Program and configuration on client, database on server
- ◆ Program and database on server, configuration on client

'Configuration' files include custom schematics, field lists, reports, etc. These must be located in a directory structure unique to each running instance of the program. While generally installed locally, they may be located on the server provided that each user is assigned their own server directory to run from. Performance will suffer when the configuration files are located on the server.

The program will function properly under any NetBios based networking system. This includes Novell, Windows '95 & NT, Lantastic, as well as most other PC-based networking platforms.

Read/Write access to the database files directory must be provided to all users of the system. Individual user-level security can be maintained by Intersection Magic if desired.

A network install where the program is installed on the server requires read/write access to the server directory where the program will be installed. Client installs run from the server and only require read access of the server directory.

Intersection Magic does not support UNC file names. This means that any directories used by the program must have a drive letter associated with them.

Map Magic

The Map Magic add-on extension for ArcView has the same system requirements as the ArcView software and requires ArcView v3.0a or newer to function correctly.