

## WHAT IS GENETIC ALGORITHM OPTIMIZATION?

see page 2

## HAVE YOU SEEN CORSIM LATELY?

see page 3



### **McTrans**

Department of Civil and  
Coastal Engineering  
PO Box 116585  
Gainesville FL 32611-6585  
(352) 392-0378  
Toll Free 1-800-226-1013  
Fax (352) 392-6629  
Email [mctrans@ce.ufl.edu](mailto:mctrans@ce.ufl.edu)  
<http://mctrans.ce.ufl.edu/>



UNIVERSITY OF  
**FLORIDA**

<b>McByte</b>	New Products	4
	Updated Products	5
	Did you know?	6
	Advertising Directory	8
	Products Listing	21
	Conference & Training Calendar	32

## Genetic Algorithm Optimization

Genetic algorithm (G.A.) optimization is a theoretical improvement over the traditional hill-climb optimization technique that has been employed by TRANSYT-7F for many years. G.A. has the ability to avoid becoming trapped in a "local optimum" solution, and is mathematically best qualified to locate the "global optimum" solution. McT7F9 features G.A. optimization of offsets and yield points, using either TRANSYT-7F or CORSIM as the simulation engine.

For years, practitioners have known that they could often come up with a better timing plan by making minor modifications to the so-called "optimal result" recommended by a computer program. This is a byproduct of the hill-climb optimization process, where most timing plan candidates are not examined, in an effort to save time. Unfortunately, the global optimum solution is often skipped over during the hill-climb optimization process.

Now, with the advent of G.A. optimization, thankfully the practitioner may have a much more difficult time in coming up with a better solution than the computer program. The genetic algorithm does not examine every single timing plan candidate either, but is a random guided search, capable of intelligently tracking down the global optimum solution. As with the human race, the weakest candidates are eliminated from the gene pool, and each successive generation of individuals contains stronger and stronger characteristics. Its survival of the fittest, and the unique processes of crossover

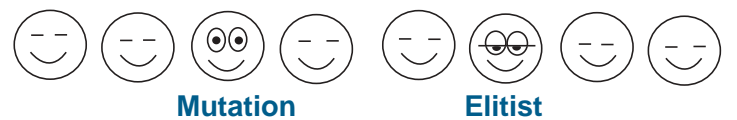
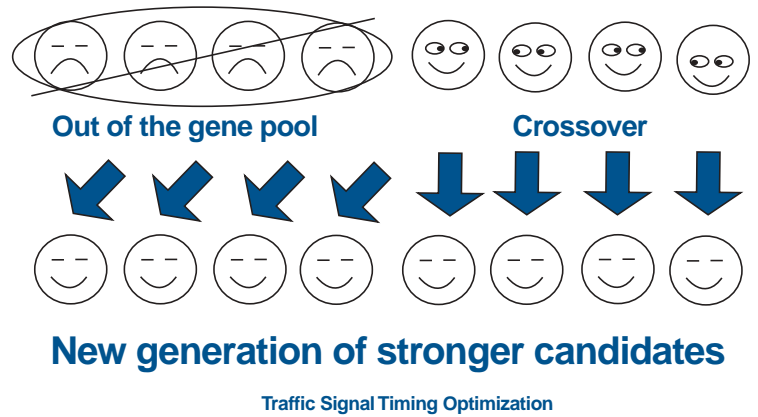
and mutation conspire to keep the species as strong as possible.

G.A. initially considers a trial population of signal timing plan candidates. Within this population a competition takes place where the weak candidates are discarded, and the strong candidates are allowed to breed and perform crossover.

Following crossover, a new generation of candidate solutions is born, and a mutation process is performed to ensure that fresh solutions are considered. Following mutation, another new competition takes place where the weak candidates are discarded and only the strong survive. The average function value can occasionally become worse due to a bad mutation, but the optimal function value should always stay the same or improve if the elitist method is used, where the strongest individual is maintained through to the next generation. This entire process takes place for numerous successive generations until convergence is achieved on the global optimal solution.

Although it produces the best timing plans, a potential drawback of the genetic algorithm is increased program running times on the computer when optimizing large networks in McT7F9, using either TRANSYT-7F or CORSIM as the simulation engine. The chart below illustrates some sample running times for offset optimization of a relatively small network having four intersections.

Fortunately the drawback of increased program running times continues to be minimized by the ever-increasing processing speeds of today's computers.



**Next generation has same size population. Now who is strongest?**

Traffic Signal Timing Optimization

TRANSYT-7F Engine	FourNode.TIN	Genetic Algorithm	Hill Climb
	3 3 3 MHz	40 seconds	10 seconds
	9 3 3 MHz	15 seconds	3 seconds
CORSIM Engine	FourNode.TIN	Genetic Algorithm	Hill Climb
	3 3 3 MHz	22 minutes	2.5 minutes
	9 3 3 MHz	7.5 minutes	1 minutes

## Have you seen CORSIM lately?

Raj S. Ghaman, P.E.

Team Leader, Travel Management RD&T

Federal Highway Administration

The latest version of CORSIM, bundled within version 5 of the Traffic Software Integrated System (TSIS 5.0) was released earlier this year. TSIS 5.0, as a major release, has many improvements and added features compared to the previous TSIS 4.32 version. For example, the weaving logic has been dramatically improved, and users can now model ramp meters and high occupancy vehicle (HOV) lanes. Also included with TSIS 5.0 is a new state-of-the-art graphical input processor, called TRAFED, which dramatically simplifies the creation of CORSIM data files, one of CORSIM's perceived weaknesses over the years.

Over the last twenty years, the Federal Highway Administration (FHWA) has been developing and enhancing the CORSIM corridor simulation model. What started as separate models, mainly NETSIM and FRESIM, has evolved into a stable and mature product, used by thousands of practitioners and researchers throughout the world. FHWA's investment in CORSIM is significant, and we assure the CORSIM users that with the release of version 5.0, FHWA will continue to maintain and support the model and its users.

FHWA is firmly committed to continuing its leadership role in the area of traffic analysis tools and traffic simulation – a role that means continued support for the practical use of simulation models. FHWA will undertake the research and data collection necessary to create the traffic simulation algorithms for the next generation of models. This does not mean that FHWA is “abandoning” CORSIM. As indicated, FHWA will continue to support the software and its users. For example, a CORSIM training course will be available shortly from FHWA's National Highway Institute. Additionally, FHWA is planning to develop a series of guidance documents and training courses related to traffic analysis tools, traffic simulation in general, guidelines for CORSIM use, and advanced CORSIM topics.

I encourage current TSIS users to continue applying the model and to take advantage of its many new features and enhancements with the assurance that FHWA will continue to support its many users. In addition, I'd like to encourage new users to enter into the “world of traffic simulation” by becoming a TSIS user.



**It's on Us!**  
Call **McTrans** Toll Free:

**1-800-226-1013**

- Tech Assistance • Orders
- Product • Seminar Information

**McTrans**  
*Moving Technology*

### Highway Capacity Analysis Seminars

HCM2000 Procedures and  
HCS2000™ Applications

New York, NY

Oct 30-Nov 1, 2001

This seminar is 3 days and covers the HCM2000 analysis procedures and HCS2000™ software applications for Multilane Highways, Basic Freeway Segments, Freeway Weaving, Ramps and Ramp Junctions, Unsignalized Intersections and Signalized Intersections; with notes on Freeway Facilities, Urban Streets, Two-Lane Highways and Transit Capacity.

For more information or to register online, go to:

<http://mctrans.ce.ufl.edu/conferences/training>

For seminar information, contact Bill Sampson at:  
352-392-0378, ext. 241 or [bsampson@ce.ufl.edu](mailto:bsampson@ce.ufl.edu)

For registration information, contact Mitch Davis at:  
352-392-0378, ext. 229 or [mitch@ce.ufl.edu](mailto:mitch@ce.ufl.edu)



**BC Auditor** is a companion program to MicroBENCOST™ version 1.0, making this benefit/cost application much more user-friendly (and manager-friendly). BC Auditor simply reads in your MicroBENCOST™ input data file and produces a simple side-by-side comparison of the Base Case and Proposed Case. At the same time, it flags which of the values deviate from those in your default file, even if this file has been customized. Additionally, there are a number of warnings built into the program that point out some common errors, such as road characteristics that are incompatible with the selected facility type.

The report can be printed directly, saved in RTF format for storage or editing, or simply viewed on-screen by the analyst as an interim check. Reports are concise and logical for presentations and management review, providing an excellent format for conveying the input data and assumptions.

This program is a Windows application, and relies on MicroBENCOST™ for creating and editing the data files; these files are not modified in any way by the BC Auditor program. Users of MicroBENCOST™ version 1.0 will be greatly aided by improved data checking, reduced revision time and increased confidence in the analysis results.

For the first 25 respondents, a free evaluation version is available from **McTrans**, with the request to providing references for this software.

BC Auditor (#BCAUD) by Kneeshaw Engineering is available at LOS 6 for \$225. Manual is included.

**TimeTech™** is a time logging utility designed to assist all AutoCAD technicians. TimeTech™ will monitor your AutoCAD activities, and automatically generate time sheets and reports for you! You simply link each AutoCAD file to a project in your database, and TimeTech™ does the rest. You can also record time to a project while you're away from AutoCAD (while you're doing hand drafting, or attending a meeting) by using the StopWatch module. You can directly edit any data it generates to suit your needs - TimeTech™ is feature-packed and fully customizable!

Quit wasting time jotting down endless notes and journal entries, just to have to assemble it all into a timesheet at the end of the week. TimeTech™ (#TIMETEC) version 1.0 by Enable Software Solutions is available at LOS 7 for \$75.

**ICPI Lockpave** Version 11.4 designs base thickness for interlocking concrete pavements. Developed for the Interlocking Concrete Pavement Institute, the program uses AASHTO design procedures for parking lots and streets, and it includes a mechanistic design procedure for streets, as well as for industrial and port pavements. The program includes an overlay design for applying concrete pavers on an existing pavement. In addition, the user can calculate life-cycle costs. ICPI Lockpave (#LOCPAV) by Interlocking Concrete Pavement Institute is available at LOS 7 for \$60.

**TransDec** (Transportation Decision Analysis Software) is designed to provide the transportation practitioner with an easy to use tool for performing multimodal, multicriteria investment analysis. TransDec evaluates transportation investment alternatives, focusing on rail-highway trade-offs. While the focus is on direct costs, indirect costs such as economic impacts, energy use, productivity, air quality and safety impacts are also considered.

TransDec is a menu driven software system designed to allow transportation practitioners to evaluate and provide structure to transportation investment decisions based on multiple goals, objectives, and measures. TransDec guides the decision making process through a hierarchical formulation of broadly defined project goals tied to specific objectives, with each objective operationalized by a value measure. This organization serves to add consistency and structure to the process of selecting the best alternative from several possible alternative projects or courses of action.

TransDec (#TRAND) by NCHRP is available at LOS 3 for \$55.

**WinTURNS** is designed to create turning movement diagrams. It is a 32-bit windows based shareware update of an old DOS program that computes directional turning volumes using the techniques described in NCHRP Report 255. You may 'LOCK-IN' any pre-determined movement volumes. The program will compute the remaining volumes based upon any restrictions. Determine the distribution of current ADT, forecast ADT, and forecast DHV all at once. Results are presented as both a turning movement volume matrix and as a 'directionally accurate' turning movement diagram. The diagram may be printed directly from the program, or copied to your clipboard for insertion into any document. The program will handle intersections of up to 8 legs, making it adaptable as a 'mini-model'. Also, you may save your work in a file and recall it later. HTML User's guide is included. WinTURNS (#WTURNS) by Rick Ernstmeier is available at LOS 4 for \$5.

## SIGNAL2000/TEAPAC

The SIGNAL2000 program now includes the new TEAPAC Version 5 Interface which has been developed for all TEAPAC programs. The Version 5 interface has many new and enhanced features for ease of use and efficiency.

The most significant of these is a new Tabular View for data input and editing which displays a maximum amount of data in a dialog box using a table format so that lots of data can be reviewed, edited or input with a minimum amount of mouse navigation. This Tabular View compliments the two other modes of data entry and review already found in every TEAPAC program: the Normal View of the Visual Mode which provides significant on-screen helps and visual, graphic cues (but lacks input efficiency), and the Manual Mode which is highly efficient for power users (but lacks helpful cues). As with the Normal View, customized Tabular View dialogs can be generated from the Manual Mode on the fly, adding unmatched efficiency to the data entry and review process.

A partial list of some of the features offered by the Version 5 interface includes:

- the tabular view for dense, tabular dialogs to view and change data,
- a recent files dialog with option to include recent files in the File menu,
- automatic Share and write-protect of files written by another Ver 5 program,
- option to log significant results of computations in a text file,
- complete, built-in printer setup support and management,
- popup tool-tip help under the mouse cursor, plus status-line help for screen cursor,
- direct linkage to other TEAPAC programs, including launching script files,
- registration of TEAPAC file type allows double-click to launch,
- WinTEAPAC Menu permits naming a data file or script file to use,
- a 'Getting Started' button for first-time users is easily customizable,
- enhanced look for all dialogs using depressed input fields,
- direct editing of script (control) files and small data files,
- direct editing and conversion of text files to TEAPAC file format,
- history of manual mode commands for repeated command sequences.

The Capacity Analysis Only version of SIGNAL2000/TEAPAC Ver 1.10 from Strong Concepts (#TPCS2K.1.W95) is available from **McTrans** for \$295. The Usage Level 2 version (#TPCS2K.2.W95) which adds Timing and Phasing Optimization is available for \$595. Educational versions are available for half-price and demonstration versions are available free as downloads from the Strong Concepts and McTrans web pages. Registered licensees of earlier versions of SIGNAL2000 may update at a reduced fee directly from Strong Concepts.

**RMAV 2000™** is a customized interface between the Infrastructure 2000™ database and ArcView® from Environmental Systems Research Institute, Inc. RMAV 2000™ includes both an ArcView® extension that enhances your ability to use and manage the Infrastructure 2000™ data within ArcView®, and a MapObjects® based component that works directly within selected Infrastructure 2000™ modules. These two components provide both experienced ArcView® users as well as GIS beginners with access to your GIS data.

**RMAV 2000™ WITH "EASY MAP" Provides:**

- GIS interface designed for both the experienced and novice GIS user.
- RMAV is an ArcView® extension that adds features to ArcView® to streamline the integration of Infrastructure 2000 data within the GIS environment
- EasyMap provides access to GIS maps from within selected Infrastructure 2000™ modules

**RMAV 2000™ Arcview® extension:**

- The ability to bring shape files into an ArcView® project pre-joined to the correct Infrastructure 2000™ tables
- Automatic field labels based on the user definable Infrastructure 2000™ data dictionary
- A theme manager that allows frequently used thematic maps to be recreated simply by picking them from a list
- Filtering options that allow geographic selection sets to be applied to the Infrastructure 2000™ database for the purpose of budget analysis or reporting
- Specialized tools to aid in the editing of linear map features
- A streamlined tool to "Geolink" the Infrastructure 2000™ database to an ArcView® shape file

**RMAV 2000™ MapObjects® application: "EasyMap":**

- Ability to view GIS maps from within Infrastructure 2000™ modules
- Ability to zoom, pan, and identify features in the map
- Ability to navigate through the database by clicking on features in the map
- Ability to label features on the map with any field from the database
- Ability to bring background layers and images into the map
- Ability to select display colors for each layer
- Ability to print simple maps

**RMAV 2000™** (#RMAV2000.W95) version 2.00 by Vanasse Hangen Brustlin, Inc. is available from **McTrans** at LOS 7 for \$1495.

### Update Watch

Package	Version	Status	Target	Distribution
HDM-4	1.2	Complete	Available	Patch Download
TSIS	5.0	Complete	Available	Registered users may upgrade
HCS2000	4.1a	Complete	Available	Patch Download
TRANSYT-7F	9.3	Complete	Available	Patch Download

## WARRANTS/TEAPAC MUTCD 2000

The WARRANTS/TEAPAC program (#TPCWAR.1.W95) now performs signal warrant analyses according to the procedures dictated by the MUTCD 2000 (Millennium Edition) which became official earlier this year. WARRANTS2000 also provides an option to perform a warrant analysis using the previous MUTCD (1988) like its predecessor. WARRANTS2000 performs a comprehensive signal warrant analysis using all the volume-oriented warrants of the MUTCD 2000, including warrants 1A, 1B, 1C, 2, 3A, 3B and 7. A unique algorithm searches every possible 60-

minute period of a 15-minute count for hours that meet the warrants, ranking the identified hours by minor street volume. Input data can be imported directly from various electronic traffic counters or entered/edited manually. The 2000 warrant analysis is also built into the Usage Level 2 version of TURNS/TEAPAC (#TPCTRN.2.W95).

Usage Level 2 of WARRANTS (#TPCWAR.2.W95) also provides advanced tabulation and peak hour analysis features. Peak 15-minute or 60-minute volume data can be sent directly to other TEAPAC programs like SIGNAL2000 for optimized level of service calculations, SITE for background traffic in impact studies, and PREPASSR, PRETRANSYT

and PRENETSIM for signal timing and modeling studies. Use of the TED and TUTOR programs in the TEAPAC system allow complete automation of all of these calculations for unparalleled efficiency, accuracy and speed.

WARRANTS has a unique Visual Mode which provides an intuitive, Windows graphical user interface, as well as a Command Mode for power users. This is the same WinTEAPAC2000 interface found in all other TEAPAC programs. This interface includes a fully-indexed, on-screen user guide and context-sensitive help and error diagnostics. WARRANTS also incorporates the new TEAPAC Version 5 interface with its Tabular View to increase efficiency for intermediate users and certain data-intensive tasks (see SIGNAL2000 article elsewhere in this section).

The Warrant Analysis version of WARRANTS/TEAPAC Ver 2.00 from Strong Concepts (#TPCWAR.1.W95) is available from McTrans for \$395. The Usage Level 2 version (#TPCWAR.2.W95) which adds advanced tabulation and peak hour analysis features is available for \$595. Educational versions are available for half-price and demonstration versions are available free as downloads from the Strong Concepts and McTrans web pages. Registered licensees of earlier versions of WARRANTS may upgrade at a reduced fee directly from Strong Concepts.

other vital information. This service will provide a mechanism through which the TRB Committee on Highway Capacity and Quality of Service can communicate updates, corrections and interpretations to users implementing the procedures in the HCM2000.

Holders of HCM2000 are encouraged to log onto the

## HydroCAD-6

HydroCAD-6 for Windows is now shipping, with an extensive array of new features, such as fully automatic calculations and interactive reports. As you make changes to the watershed, reports and graphs are automatically updated in moments.

HydroCAD-6 includes all the capabilities of earlier versions, and can directly import projects from all earlier programs. The on-screen routing diagram (which we pioneered in 1986 with the first HydroCAD release) now includes full drag-and-drop capabilities for easy watershed creation and modification. Other features like full English/metric units, enhanced reports, and built-in curve number lookup, make this the best HydroCAD release ever.

- A fast and efficient 32-bit Windows application.
- Runs on all Windows platforms from Windows 95 to 2000.
- Fully network compatible, with automatic license sharing within your office.
- New Windows user interface, with independent, real-time report windows as shown above.
- Open multiple projects simultaneously.
- Drag or cut-and-paste nodes - even between projects.
- Pan, zoom, customize, and print any graph or report.
- Print automatic multi-page reports for an entire project.
- New pond routing procedure models interconnected ponds with automatic tailwater dependencies.
- Enhanced modeling of standpipes, with automatic

transition to weir flow under low head conditions.

- Automatic weir calculations for rectangular, vee, trapezoidal, sharp-crested, and broad-crested weirs.
- Enhanced exfiltration calculations for modeling drywells, gravel-filled trenches, and related structures.
- Pond-sizing report estimates storage required to achieve desired discharge rates.
- Runoff hydrographs can be generated using the Santa Barbara Urban Hydrograph (SBUH), SCS, or Rational methods. Switch methods at any time to see how they compare.
- Automatic back-to-back storm for any rainfall distribution - without having to create a custom rainfall table.
- Automatic adjustment for Antecedent Moisture Condition (AMC) allows easy modeling of dry or saturated conditions.
- Multiple Time-of-concentration procedures - or set to zero for instantaneous runoff from rooftops or pond surfaces.
- Unlimited hydrograph points for higher resolution and/or long time spans. Excellent for detention pond studies when you need an extended time period to examine the entire pond discharge.

HydroCAD-6 for Windows (#HCAD) by Applied Microcomputer Systems is available from [McTrans](#) at LOS 7. See product list or call McTrans for pricing of HydroCAD -6 with node sizes ranging from 10 to 200.

other HCM updates as "Guest".

Users can access the HCM WebBoard through the [McTrans](#) Web Site under the Highway Capacity Software (HCS) page. A link has also been built into the HCS2000(4.1a) to access the WebBoard directly from the Help menu.

## Visit the HCM WebBoard

With the newest version of the Highway Capacity Manual (HCM) released as HCM2000, the Transportation Research Board (TRB) has established a WebBoard to notify copyholders of modifications to pages, errata, and

HCM2000 WebBoard to take advantage of this new service. To register your copy of the Highway Capacity Manual, sign onto the HCM2000 WebBoard as a New User. Information will be emailed immediately to new users so they can complete the registration process. Users who do not wish to register may view errata sheets and



# D I D Y O U K N O W ?

## HCS

- HCS2000 now offers two kinds of reports: formatted (HTML) reports, and unformatted (text) reports. Formatted reports, which utilize XML technology, require a recent version of Microsoft Internet Explorer to be installed on the computer. Appearance of the formatted reports, including graphics, header/footer, and margins, can be controlled from Internet Explorer. Margins of the unformatted reports can be affected in some cases by adjusting the printer settings (Start > Settings > Printers > Right Click on Printer > Properties > Paper > Unprintable Area) from Windows. Adjusting the margins is sometimes necessary to allow the HCS2000-Signals summary report to print on one page.
- In HCS2000-Signals, the default lane utilization adjustment factor (fLU) is 0.95, which indicates that a multilane lane group has slightly uneven queues in each of the individual lanes. When the lane utilization is significantly uneven, the Highest Single Lane Volume (HSLV) fields can be used to describe the actual behavior in the streets. On the interface, the HSLV input data fields are only enabled for multilane lane groups. When it is necessary to control the lane utilization of an exclusive turn lane next to a shared lane, containing the same turning movement as an adjacent exclusive turn lane, the Percent Turns from Shared Lane fields can be used. On the interface, the Percent Turns from Shared Lane fields are only enabled when a shared lane contains the same turning movement as an adjacent exclusive turn lane.
- In HCS2000-Ramps, adjacent ramp (not the analysis ramp) input data affect results only when the analysis involves six-lane freeways. When the analysis involves four-lane or eight-lane freeways, adjacent ramp input data (existence, position, type, distance, volume, terrain, heavy vehicles, etc.) have no effect on results.

## CORSIM

- Highways can be directly connected using FRESIM ramp links. For a simple highway-to-highway connection an off-ramp from the first highway may connect to an on-ramp onto the next highway. However, there are limitations that sometimes require the use of NETSIM links. When using FRESIM only, it is not possible to have a ramp that splits into two ramps, and it is not possible to have two ramps that merge into one.
- Although the default vehicle arrival distribution is uniform, random arrivals may be requested in the input file. CORSIM has difficulty simulating random vehicle arrivals when the input volume is extremely low. CORSIM uses a distribution to specify entry times within each one-minute interval. When the entry volume is extremely low the process breaks down and becomes a constant distribution. With 10 vehicles per hour (vph) the per minute entry volume is one-sixth of a vehicle, so no vehicles enter for 5 minutes and then one vehicle enters during the sixth minute. Low-volume driveways can optionally be modeled using a time-varying source node. Instead of specifying 10 vph for the entire hour, 0 vph can be specified for most of the hour along with a few short intervals with 20 or more vph, so that the total number of vehicles emitted over the hour is 10.
- Unlike NETSIM, FRESIM uses a gravity model to determine the origin and destination of individual vehicles, based on the mainline volume and entering/exiting ramp traffic. Origin-destination data can be used to override the internally determined vehicle paths. However, when coding this data, freeway origin-destination pairs cannot be separated by NETSIM sections. For two nodes to be an acceptable origin-destination pair there must be a path from the origin to the destination that includes FRESIM links only.

## TRANSYT-7F

- Release 9.3 offers a brand-new input data editor and map view. The new editor improves the intuition and efficiency of the data input process, while maintaining the overall flexibility and power of the original TRANSYT model.
- In the mid '90s when TRANSYT-7F was upgraded in order to simulate oversaturated conditions, adjustments were made to the calculation of queuing capacity. Under link-wise simulation, since it was not possible to explicitly consider oversaturated conditions, an automatic reduction (20%) to the queuing capacity was implemented. The adjustment is intended to make traffic flow patterns more realistic in response to random queue and queue blockage effects. Under step-wise simulation, a more detailed queuing capacity adjustment, based on degree of saturation and duration of simulation, was implemented. Input parameters Jam Density and Queuing Capacity Multiplier may be used to calibrate the calculation of queuing capacities for individual links or the entire network. In addition, the Queuing Capacity input parameter can be used to override the internally computed values.
- Efficiency is defined as the shortest major street green divided by the bandwidth in each individual direction. If efficiency is 50%, this implies that progression has been maximized, because the bandwidth in each direction uses the entire available major street green. Attainability is defined as bandwidth divided by the shortest major street green. If attainability is 100%, this implies that the bandwidth cannot be increased without increasing the shortest green time available along the major street. Efficiency and attainability are only reported within the TRANSYT-7F output file when a specific route has been defined in the input file.

Page	Company	Product
9	AJH Associates	QRS II
20	AI Technologies Ltd.	TOSS
10	Akcelik & Associates	aa Traffic SIDRA
18	Caliper Corp.	TransCAD
20	Greg Bullock	TS/PP-Draft
11	Innovative Transportation Concepts	VISSIM
12	JMW Engineering, Inc.	AIMS GIS
19	KLD Associates & Polytechnic Univ.	SIG/Cinema, HCM/Cinema
11	Microtrans, Inc.	Trip Generation
20	Resource International, Inc.	PMS 4.0
12	RST International Inc.	UfosNet
14	Strong Concepts	TEAPAC
11	TMODEL Corp.	MPA
13	Trafficware	SimTraffic, Synchro
9	Transoft Solutions	CADD Vehicle Turning Templates
15	Transoft Solutions	GuidSIGN
16,17	Transoft Solutions	AutoTURN
10	X32 Group, Inc.	HSA Software

## Information Access

www: <http://mctrans.ce.ufl.edu>

E-mail: [mctrans@ce.ufl.edu](mailto:mctrans@ce.ufl.edu)

Fax: (352) 392-6629

Toll Free: 1-800-226-1013

Telephone: (352) 392-0378

### Extension

### General Responsibilities

<b>Bill Sampson</b> Director	<b>241</b>	Center & software information Website & technical assistance (HCS)
<b>Bill Heitman</b> Assistant Director	<b>234</b>	Catalog & newsletter information Advertising & support services
<b>Jesse Wolbert</b> Program Assistant	<b>239</b>	Orders & new product status Contracts & licenses
<b>Debbie Escalera</b> Order Processing	<b>242</b>	Order & shipment status Software registration & invoices
<b>David Hale</b> Technical Assistant	<b>240</b>	Traffic software technical assistance TRANSYT-7F, PASSER, CORSIM
<b>Nebiyu Tiruneh</b> Technical Assistant	<b>238</b>	Hydraulic software technical assistance HYDRAIN, HEC, HY-8, WSPRO

gatorEngineering®  
Publication Services  
University of Florida  
Christina Loosli, DESIGNER

*Opinions expressed in this newsletter do not reflect the official views of the university. Use of trade names implies no endorsement by the University of Florida.*



# McTrans Products

## 1 Full Technical and Maintenance Support



## 2 Technical and Update Support

## 3 Limited Technical Support

## 4 Freeware/Shareware/User Supported

## 5 Unsupported

## 6 Proprietary Software, McTrans Distributed

## 7 Proprietary Software, Developer Distributed

## 8 Publicly Developed and Supported

**McTrans** provides full technical support of the application and provides software maintenance, for which the cost of maintenance is user-supported. Our support at LOS 1 assures users of the following: Immediate notification of any serious bug discovered in a supported, maintained program; Free replacements of program modules (and documentation) which are updated to correct bugs; Periodic User Notes for useful information; Discounted upgrades when major new releases are issued. This software is maintained by **McTrans** or the developer, thus the mechanism for correcting bugs and implementing other enhancements is in place and responsive to immediate needs. This is software for which **McTrans** provides technical support and free updates (but not major upgrades). This is usually public domain software for which **McTrans** serves as the distributor. **McTrans** provides limited "first line" technical assistance in its use. This is generally copyrighted software offered by **McTrans** to the membership. It is referred to as "freeware," "shareware" or "user-supported" by various developers. **McTrans** offers no support for software in this category, but support usually can be obtained from the developer for a registration fee. Registration of shareware with the developer usually is required if the program is placed into actual use. This is useful public-domain software that **McTrans** makes available at a nominal fee. However, no one, **McTrans** or the developer, provides any support. You're on your own. This is privately developed software distributed by **McTrans**, for which a royalty is paid to the developer. The developer provides the technical support. This is privately developed software for which a royalty is paid to the developer. Software at this level is distributed by the developer and all support is provided by the developer. This is software developed by or for a public agency and is distributed by **McTrans**, including updates and notices. All technical support and maintenance is provided by the public agency or its contractor.

**new!** New Products

**update** Updated Products

Since Summer 2001

### Products List References

👉 50 percent discount for universities (must be university P.O. or check).

👉 This product has other applications beyond the category in which it is listed. Check the catalog for details.

**D** Demo for this product is included on McDemo CD the (#McDemo) and also available for download from our website.

**Note** Prices subject to change without notice. All versions are for PC-compatible, except Macintosh, noted as .MAC.

### Guide to Software Codes

ACAD	AutoCAD
dBn	dBASE n
EXC	Microsoft EXCEL
IB	Interpreted BASIC
L123	Lotus 1-2-3
MSTAT	MicroStation
QProV8	Quattro Pro Vers. 8
(SI)	Source code included
WIN	Windows 3.x
W95	Windows95 & NT
PP	Microsoft PowerPoint

**Product Description**

**Release Date**

**Software Product No.**

**Price**

**Documentation Product No.**

**Price**

**Supporting Software**

**LOS**

**Highway Engineering Construction Management**

Easy Project, Ver. 3.6  
 Estimax, Ver.1.0  
 GANTT, Ver. 1.3  
 North Dakota Materials Management System, Ver. 1.0  
 North Dakota Roadway Management System, Ver. 1.0  
 PC Project, Ver. 1.1  
 WINSched, Ver. 1.04c

1/90	EZPROJ	\$5	(On Disk)			4
12/99	ESTMAX.WIN	400	(Included)		WIN	7
10/88	GANTT	5	(On Disk)			4
2/93	NDMMS	50	NDMMS.D	\$5		3
2/93	NDRMS	50	NDRMS.D	5		3
4/88	PC PROJ	5	(On Disk)			4
3/97	WINSCH	195	(Included)			6

**Highway Engineering Highway Design**

BERM, Ver. 1.0  
 BRCOM  
 BRICK Package  
 Individual modules are available. Refer to Catalog or call for details.  
 BRIDGE RM/LL, Ver. 1.0  
 CBEAR  
 COM624P, Ver. 2.0  
 Datasets for Standardized Small Sign Support Hardware  
 DILLY, Ver. 4.0  
 DRIVEN  
 ICAHD, Ver. 3.0  
 KwikSOFT Bridge Design Utilities-Series 1  
 PC-BRIDGE, Ver. 2.60  
 PC-STRAN, Ver. 5.02  
 PIZER EARTH Earthwork Cut & Fill Calculator Ver. 5.0  
 PL-AID, Ver. 1.1  
 PPLAN-6R  
 Reinforced Slope Stability  
**new!** RMAV 2000  
 SET-SAND, Ver. 1.0  
 SHAFT, Ver. 1.0  
 SHAFTUF, Ver. 1.0  
 Single Point Urban Interchange  
 SPILE, Ver. 2.0  
 Traffic Barrier Hardware Datasets  
 WEAP87

9/87	BERM	5	BERM.D	25		5
6/88	BRCOM	50	BRCOM.D	10		3
6/91	BRICK	12,930	(Included)			7
6/89	BRIDGE	50	BRIDGE.D	5		3
9/97	CBEAR	5	CBEAR.D	10		5
10/93	COM624P	5	COM624P.D	25		5
6/97	GSSH	30				5
8/88	DILLY	300	(Included)			1
6/99	DRIVEN	50	DRIVEN.D	10		3
4/98	ICAHD	2500	(Included)			7
6/96	KSBDS	75	(Included)			7
1/90	PCBRIDGE	5	(On Disk)			4
1/90	PCSTRAN	5	(On Disk)			4
9/97	PEARTH.W95	500	(Included)		W95	7
9/89	PLAID	500	(Included)			1
4/92	PPLAN	75	(Included)			6
9/97	RSS	5	RSS.D	10		5
10/01	RMAV2000.W95	\$1,495	(Included)		W95	7
12/84	SETSAND	50	(Included)		IB	1
7/89	SHAFT	200	(Included)		L123	1
3/92	SHAFTUF	200	(Included)		IB	1
9/99	SPUI	50	(On Disk)		QPROV8	3
6/93	SPILE	50	SPILE.D	10		3
9/95	TBHD	20	(Included)			5
	WEAP	5	WEAP.D	35		5

**Highway Engineering Hydraulics**

ASHDRAIN, Ver. 2.0  
 BASINOPT  
 BASINOPT SIMULATION ADD-IN  
 BOXCAR, Ver. 1.0  
 Upgrade from Ver. 1.0  
 BRI-STARS, Ver.3.3  
 CAHH DOS PROGRAMS  
 CANDE89, Ver. 1.0  
 Source Code, Ver. 1.0  
 CANDE-POST, Ver. 1.1  
 CANPRO, Ver. 1.2  
 CHANNEL  
 CODEH2, Ver. 3.59D  
 Culvert Analysis (HY-8), Ver. 6.1  
 Upgrade to Ver. 6.0  
 CULVERT2, Ver.1.0  
 CULVERT3, Ver.1.0 (Metric)  
 CULVERT4  
 DBRM (Drainage Basin Runoff)  
 Metric Ver.  
 Drainage Requirements in Pavements  
 EASy (Engineering Analysis System), Ver. 1.1  
 EPANET Modeling System  
 Contact **McTrans** for quote.  
 FESWMS, Ver.1.0  
 Supplemental Documentation  
 FlowMaster PE for Windows  
 FlowMaster I, Ver.3.4  
 Formed in Place Pipe, Ver. 3.1  
 HEC-1, Ver. 4.0  
 Spanish Documentation  
 Spanish Documentation

3/92	ASHDRAIN	165	(Included)			6
4/98	BASINOPT	1,235	(Included)		W95	7
4/98	SIMULA	400	(Included)		W95	7
6/01	BOXCAR2.W95	225	BOXCAR.D	25		1
6/01	BOXCAR2.UPG	100				
3/93	BRI-STARS	100	BRI-STARS.D	25		1
4/98	CAHH	485			W95	7
5/90	CANDE	5	CANDE.D	20		5
5/90	CANDE.S	5			(SI)	5
9/94	CPOST	335	(Included)			7
8/89	CANPRO	80	(Included)			6
4/98	CHANNEL	585	(Included)		W95	7
6/89	CODEH2	695	(Included)			6
6/99	HY8	125	HY8.D	40		2
	HY8.UPG	25	(Included)			
11/92	CULVERT2	75	(Included)			2
4/94	CULVERT3	75	(Included)			2
5/98	CULVERT4	50	(Included)			6
4/96	DBRM	175	(Included)			6
4/96	DBRM.M	175	(Included)			6
11/98	DRIP	50	DRIP.D	10		3
7/89	EASY	150	(Included)			6
9/97	EPANET.W95		(Included)		W95	7
3/89	FESWMS	70	FESWMS.D	25		3
			FESWMS.DS	25		
12/95	FLOWPE.WIN	195			Win	7
7/93	FLOW	100	(On Disk)			7
12/95	FIPP	225	Included		Win	6
8/90	HEC1.GSS	\$160	HEC1.D	\$45		2
			HEC1.DS	45		2
			HEC2.DS	30		

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
HEC-2, Ver. 4.6.2	6/91	HEC2	95	HEC2.D	30		2
HEC-12 (Pavement Drainage), Ver. 3.0D	11/93	HEC12	350	(Included)			7
HEC-RAS, Ver. 3.01	6/01	HECRAS	175	HECRAS.D	50	W95/WIN	2
HEC-RAS Upgrade from Ver 2.2	6/01	HECRAS.UPG	50				2
HYDRAIN, Ver. 6.1	4/99	HYD6	350	HYD6.D	50		1
Ver. 6.0 Upgrade from Ver. 5.0		HYD6.UPG	50				1
Supplemental Documentation				HYD.DS	25		
Hydrogen Sulfide (HS), Ver.1.0	4/91	HS	45	HS.D	15		6
Supplemental Documentation				HS.DS	20		
HydroCAD, Ver.6.0	10/01	HCAD10	395	(Included)			7
		HCAD20	595	(Included)			7
		HCAD40	795	(Included)			7
		HCAD90	995	(Included)			7
		HCAD200	1195	(Included)			7
Hydrological Modeling System, Ver.1.1	6/99	HECHMS	75	HECHMS.D	20		2
Hydrology & Hydraulics for Stormwater Management Manual	6/96			HHSME.D	85		
HYDROpac, Ver.2.1b		HPAC	50	(Included)			6
HY-EDIT, Ver.1.1	11/91	HYEDIT	50	(On Disk)			6
HYTB	3/99			HYTB.D	20		
LCA, Ver. 1.0	12/90	LCA	35	LCA.D	15		6
LCA Metric, Ver. 1.0	8/90	LCAM	35	LCAM.D	15		6
LCAP, Ver.1.0	12/90	LCAP	40	LCAP.D	10		6
MacCulvert, Ver.1.0	8/90	MACCULV.MAC	100	(Included)			7
MacStorm Sewer, Ver. 3.1	8/90	MACSTORM.MAC	550	(Included)			7
PIPECAR, Ver.2.1	3/95	PIPECAR	175	PIPECAR.D	25		1
Upgrade		PIPECAR.UPG	50	PIPECAR.DS	25		6
ASCE Standard 15-93	3/95			ASCE15.D	35		
PROfile	7/89	PFILE	50	(Included)			6
Pumping Stations Analysis	3/00	PSA	125	(Included)		WIN	6
QUICK PIPE, Ver.1.3	3/95	QPIPE	125	(Included)			6
QUICK PIPE PRO, Ver. 1.0	12/95	QPP	375	(Included)			6
RIMS	4/98	RIMS	105	(Included)		W95	7
SAMM, Ver.2.0	10/90	SAMM	50	SAMM.D	15		6
Supplemental Documentation				SAMM.DS	40		
Storm Sewer Analysis	5/93	SSANAL	175	(Included)			6
Ver. 3.0 Upgrade		SSANAL.UPG	40	(Included)			6
Metric Ver.	5/93	SSANAL.M	175	(Included)			6
Storm Sewer Hydrograph	9/93	SSHVD	175	(Included)			6
Ver. 3.0 Upgrade		SSHVD.UPG	40	(Included)			6
Metric Ver.	5/93	SSHVD.M	175	(Included)			6
Stormwater Infiltration Structure Design	9/95	SISD	45				7
Stormwater Management, Ver.4.0	1/94	SMANAG	225	(Included)		EXC,WIN	6
Stormwater Management and Design Aid, Ver. 1.0	3/97	SMADA	5	(On Disk)		WIN	4
Street Flow	12/92	STFLOW	225	(Included)			7
Surface-water Modeling System, Ver. 6.0	9/99	SMS	3950	(Included)		WIN,W95/NT	7
SMS Upgrade		SMS.UPG	400				7
SWATER.WIN	2/94	SWATER	\$5	(On Disk)		WIN	4
Urban Drainage Design Program	4/98	HY-22	5	HY-22.D	\$20	W95	5
Urban Stormwater Management	4/96	USMGT	200	(Included)		IB	6
Metric Ver.	4/96	USMGT.M	200	(Included)			6
Watershed Modeling System, Ver. 5.1	9/99	WMS	1750	(Included)		WIN,W95/NT	7
WMS Upgrade		WMS.UPG	150				7
WINhydro®, Ver. 1.2.5	12/99	WINHYDR	375	(Included)		W95/98/NT	6
WINPROfile, Ver. 1.05	12/99	WINPRO	50	(Included)			6
WSPRO (HY-7), Ver. 6.1	6/99	WSPRO	85	WSPRO.D	25		2
<b>Highway Engineering Pavements/Maintenance</b>							
Carson City PMS	10/90	CCPMS	50	CCPMS.D	\$10	dB3	3
ELSYM 5	9/86	ELSYM	50	ELSYM.D	5		3
Equipment Manager 2000 Ver 2.5	6/01	EQM2000.W95	2495				7
Highway Development and Management System, Ver. 1.0	3/00	HDM4.S	1200	(On CD)			1
HDM-4, Four-Pak	3/00	HDM4.S4	3360	(On CD)			1
HDM-4, Ten-Pak	3/00	HDM4.S10	8400	(On CD)			1
HDM-4, Single License, Educational	3/00	HDM4.E	480	(On CD)			1
HDM-4, Four-Pak, Educational	3/00	HDM4.E4	1344	(On CD)			1
HDM-4, Ten-Pak, Educational	3/00	HDM4.E10	3360	(On CD)			1
HDM-4, Demonstration	3/00	HDM4.DEM	\$10	(On CD)			1
HDM-4, Volumes 1-5 (hard copy, black & white, unbound)				HDM4.V1			

update



**new!**

Visit the **McTrans** website, [mctrans.ce.ufl.edu](http://mctrans.ce.ufl.edu) for pricing information for each Volume, special educational and countries of special consideration

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
HIPERPAV, Ver. 1.0	3/00	HIPERPAV.W95	695	HIPERPAV.D	20		1
ICPI Lockpave	10/01	LOCPAV	\$60				7
ILLI-BACK, Ver.2.0		ILBACK	225	(Included)			7
ILLI-PAVE Algorithms	7/86	ILLI	50	ILLI.D	5	(SI)	3
Long Beach PMS	6/81	LBPMS	50	LBPMS.D	10	dB3	3
MAPCON	4/87	MAPCON	100	MAPCON.D	65		3
Spanish Documentation				MapCON.DS	65		
MODULUS, Ver.4.0	2/91	MODUL	50	(Included)			3
PermitManager 2000™ Ver 2.50	6/01	PM2000.W95	1,295	(Included)		W95	7
PASELS, Ver.1.0	7/88	PASEL	50	(Included)			3
Pavement Management Forecasting, Ver. 1.0	12/87	PMF	50	PMF.D	15	L123	3
Pavement Management System, Ver. 4.0	10/99	PMS	995	(Included)			7
GIS Ver. 1.0	12/87	PMS.GIS	2500	(Included)			7
PMSPro Pavement Management System, Ver.5.2	3/95	PMSPRO	1000	(Included)			7
RoadManager 2000™							
Pavement module Ver 2.50	6/01	RMPM2000.W95	1,895	(Included)		W95	7
Budget Analysis Module Ver 2.50	6/01	RMBA2000.W95	1,895	(Included)		W95	7
Sidewalk Module Ver 2.50	6/01	RMSW2000.W95	1,295	(Included)		W95	7
Drainage & Utility Module Ver 2.50	6/01	RMDU2000.W95	1,295	(Included)		W95	7
Traffic Control Module Ver 2.50	6/01	RMTC2000.W95	1,295	(Included)		W95	7
Road Surface Management System	12/98	RSMS	75	RSMS.D	20		2
WORK MANAGER 2000 Ver 2.50	6/01	WKM2000.W95	2495				7
ZAPHERS	12/96	ZAPHERS	50	(Included)		WIN	7
<b>Highway Engineering Surveying</b>							
CC-SURVEYOR, Ver. 4.0	12/90	CCSURV	5	(On Disk)			4
Easy Vertical Alignment, Ver. 2.0 (Windows)	12/96	EZVAL.WIN	70	(Included)		WIN	7
GEOH (Horizontal Geometry)	8/92	GEOH	165	(Included)			6
SURVpac, Ver. 4.51	2/94	SPAC	50	(Included)			6
WINcogo™	6/95	WINCOGO	145				6
<b>Traffic Engineering Capacity Analysis</b>							
aaSIDRA-Capacity, Ver. 1.0.3, Professional Single	6/00	SID.CPS	490			W95/98/NT	6
COVER for aaSIDRA	11/00	SID.CVS	170				6
aaSIDRA Manual	11/00			SID.MAN	\$60		6
Contact <b>McTrans</b> for educational, multiple copy and upgrade prices							
CCG/CALC2	9/97	CALC2	225	(Included)			7
CINCH	2/90	CINCH	50	CINCH.D	5	IB	3
CIRCAP	7/88	CIRCAP	50	CIRCAP.D	5	IB	3
FAZWEAVE, Ver. 2.20	1/89	FAZWEAVE	50	FAZWEAVE.D	15	IB	3
5 Leg Signalized Capacity	1/90	5LEG	95	(Included)		L123	6
Florida LOS Worksheets, Ver. 2.2	9/96	FLLOS	50	(On Disk)			3
HCM/ Cinema, Ver. 4.1	9/99	HCMCIN	635	(Included)		W95/98/NT	7
Highway Capacity Manual (HCM2000) U.S. units, Printed	10/01	HCM2KE	\$100				7
Metric, Printed	10/01	HCM2KM	\$100				7
Interactive CD-ROM	10/01	HCM2KC	\$90				7
U.S. units Printed Manual and CD (set)	10/01	HCM2EC	\$145				7
Metric units Printed Manual and CD (set)	10/01	HCM2MC	\$145				7
Highway Capacity Software, HCS2000, Full Office License <b>D</b>	12/00	HCS2000.W95	500			W95/98/NT	1
HCS2000 complete upgrade from HCS-3	12/00	HCS2000.UPG	250				1
Indonesian Highway Capacity Manual	6/99	IHCM	50	IHCM.D	35		3
IVHS Workshop Report	12/95	IVHSWS	5				
Multileg, Ver. 2.4A	3/96	MLEG	85	(On Disk)			6
NCAP, Ver.2.04 <b>D</b>	11/86	NCAP	295	(Included)			7
Roadrunner, Ver. 5.2	7/97	RRUN.WIN	195	(Included)		WIN	6
Windows95 Ver.		RRUN.W95	195	(Included)		W95	6
Macintosh Ver.		RRUN.MAC	195	(Included)		EXC	6
SIGNAL85/TEAPAC Capacity Only, Ver. 2.62	2/95	TPCS85.1	295	(Included)			7
Demo		TPCS85.0	5	(On Disk)			6
SIGNAL94/TEAPAC Capacity Only, Ver.1.23	8/98	TPCS94.1	295	(Included)			7
Demo		TPCS94.0	5	(On Disk)			6
SIGNAL94/TEAPAC Capacity Only, Windows 3.1, Ver. 1.23	8/98	TPCS94.1.WIN	295	(Included)		WIN	7
Demo, Windows 3.1		TPCS94.0.WIN	5	(On Disk)		WIN	6
SIGNAL94/TEAPAC Capacity Only, Windows 95, Ver. 1.23 <b>D</b>	8/98	TPCS94.1.W95	295	(Included)		W95	7
SIGNAL97/TEAPAC Capacity Only, Windows 95, Ver. 1.02 <b>D</b>	1/00	TPCS97.1.W95	295	(Included)		W95	7

update

new!

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
SIGNAL97/TEAPAC Capacity Only, Windows 3.1, Ver. 1.02 🐘 Demo, Windows 3.1	1/00	TPCS97.1.WIN	295	(Included)		WIN	7
SIGNAL97/TEAPAC Capacity Only, Ver. 1.02 🐘 Demo	1/00	TPCS97.0.WIN	5	(On Disk)		WIN	6
SIGNAL2000/TEAPAC Capacity Only, Windows 95/98/NT/2000, Ver. 1.10 🐘D	10/01	TPCS97.1	295	(Included)			7
SIGNAL2000/TEAPAC Capacity Only, Windows 3.x, Ver. 1.00 🐘 Demo	10/00	TPCS97.0	5	(On Disk)			6
SIGNAL2000/TEAPAC Capacity Only, DOS & OS/2, Ver. 1.00 🐘 Demo	10/00	TPCS2K.1.W95	295	(Included)		W95/98/NT	7
SIPA, Ver. 2.0	2/88	TPCS2K.1.WIN	295	(Included)		WIN	7
		TPCS2K.0.WIN	5	(On Disk)		WIN	6
		TPCS2K.1	295	(Included)		DOS & OS/2	7
		TPCS2K.0	5	(On Disk)		DOS & OS/2	6
		SIPA	115	(Included)			6
<b>Traffic Engineering Data Processing</b>							
DAITA*	6/95	DAITA	80	(Included)		WIN	6
FLOCOUNT	4/94	FLOCOUNT	190				6
SpeedPlot, Ver. 2.0	5/93	SPLOT	100	(Included)			6
SpeedPLOT (+), Ver. 4.0	4/98	SPLOTPL	200	(Included)			6
SUPERDET, Ver.2.0	9/86	SUPERDET	300	(Included)			6
TDIP, Ver. 3.0	3/91	TDIP	50	TDIP.D	\$10		3
TED/TEAPAC, Ver. 3.62	1/00	TPCTED.1	295	(Included)			7
TED/TEAPAC, Windows 3.1, Ver. 3.62 🐘	1/00	TPCTED.1.WIN	295	(Included)		WIN	7
TED/TEAPAC, Windows 95, Ver. 3.62 🐘	1/00	TPCTED.1.W95	295	(Included)		W95	7
TGAP, Ver.1.0 🐘		TGAP	125	(Included)			7
TURNS	10/90	TURNS	50	(On Disk)			3
TURNS/TEAPAC Tabulator & Peak Hour, Ver. 3.43 🐘	1/00	TPCTRN.1	295	(Included)			7
TURNS/TEAPAC plus Warrants, Ver. 3.43 🐘 Demo	1/00	TPCTRN.2	595	(Included)			7
		TPCTRN.0	5	(On Disk)			6
TURNS/TEAPAC Tabulator & Peak Hour, Windows 3.1, Ver. 3.43 🐘	1/00	TPCTRN.1.WIN	295	(Included)		WIN	7
TURNS/TEAPAC plus Warrants, Windows 3.1, Ver. 3.43 🐘 Demo	1/00	TPCTRN.2.WIN	595	(Included)		WIN	7
		TPCTRN.0.WIN	5	(On Disk)		WIN	6
TURNS/TEAPAC Tabulator & Peak Hour, Windows 95, Ver. 3.43 🐘	1/00	TPCTRN.1.W95	295	(Included)		W95	7
TURNS/TEAPAC plus Warrants, Windows 95, Ver. 3.43 🐘D	1/00	TPCTRN.2.W95	595	(Included)		W95	7
WinTURNS	10/01	WTURNS.W95	\$5			W95	4
<b>Traffic Engineering General Traffic</b>							
ARTS Compendium	9/97	ARTS	5	ARTS.D	10		4
AUTOMUTS, Ver. 1.0	3/92	AUTOMUTS	50	(On Disk)			3
Florida Manual on Uniform Traffic Studies (MUTS)				FLMUTS.D	15		
Bottleneck Traffic Simulator (Bts), Ver. 1.1	8/91	BTS	75	BTS.D	10		2
CADD Sign Library (Black & White) DWG, DXF, CEL Formats, Ver.1.0	3/95	CSL1	195				6
CADD Sign Library (Full color) DWG & CEL Formats, Ver 2.0	6/00	CSL2	295				6
Computer Aided Transportation SoftwareD	8/98	CATS	150				6
DELAYE, Ver. 2.0	6/01	DELAYE	100	(On Disk)		WIN	3
dQUEUE, Ver. 1.2	10/90	DQ	50	DQ.D	5		3
FREWAY, Ver. 1.01	9/87	FREWAY	50	FREWAY.D	5		3
FRIOP, Ver. 3.1	4/89	FRIOP	75 <sup>1</sup>	(Included)			1
General Purpose Queueing Model	3/97	QUEUE_M	95	(Included)			7
GradeDec 2000, Ver 1.4	6/01	GRADEDEC	55	(Included)		W95	3
Integrated Queue Analysis Package (IQPAC), Ver. 1.0	1/94	IQPAC	175	(Included)			6
Manual for Uniform Traffic Control Devices	3/98	MUTCD.CD	145	(Included)		WIN	6
Professional Capacity Building	6/97	PCB	25	(Included)		WIN/PP	4
Queue2	6/93	QUEUE2	35	(Included)			7
QUICK-HOV	12/96	QUICKHOV	250	QUICKHOV.D	20		1
SALLIE, Ver. 1.0.4	3/90	SALLIE	50	SALLIE.D	15		3
SIGN DRAWINGSD	10/86	SIGNDWG	165	(Included)			6
SIGN SPACING	12/89	SIGNSPAC	45	(On Disk)		IB	3
Sign Inventory Management System	3/99	SIMS	75				2
SPANWIRE	7/90	SPANWIRE	1550	(Included)			7
SPARKS, Ver.1.0	6/95	SPARKS	395	(Included)			6
Demo	6/95	SPARKS.DEM	10				6
TEAPAC Traffic Engineering Package 🐘	10/00	TPC*. *.1	3495	(Included)		W95/WIN	7
TOSS Traffic Operations System Software, Ver. 8.0D	3/99	TOSS.P	1500	(Included)		W95/WIN	7
Upgrade (TOSS.P only)	3/99	TOSSUP	695	(Included)		W95/WIN	7
Accident Information System, Ver. 8.0	3/99	TOSSAIS	295	(Included)		W95/WIN	7
Collision Diagram, Ver. 8.0	3/99	TOSSCD	295	(Included)		W95/WIN	7
Traffic Count Information, Ver. 8.0	3/99	TOSSTCI	295	(Included)		W95/WIN	7
Sign Inventory System, Ver. 8.0	3/99	TOSSSI	295	(Included)		W95/WIN	7
Signal Maintenance System, Ver. 8.0	3/99	TOSSTSM	295	(Included)		W95/WIN	7

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
Signal Inventory System, Ver. 8.0	3/99	TOSSTSI	295	(Included)		W95/WIN	7
Street Light Maintenance System, Ver. 8.0	3/99	TOSSSLM	295	(Included)		W95/WIN	7
Street Light Inventory System, Ver. 8.0	3/99	TOSSSLI	295	(Included)		W95/WIN	7
Road Marking Inventory, Ver. 8.0	3/99	TOSSRMI	295	(Included)		W95/WIN	7
Street Furniture Inventory System, Ver. 8.0	3/99	TOSSSFI	295	(Included)		W95/WIN	7
Complaint Logging System, Ver. 8.0	3/99	TOSSCL	295	(Included)		W95/WIN	7
Traffic Collision Diagram Library	9/93	ACCDWG	100	(On Disk)			6
Traffic Control Plan Library	9/93	TCPDWG	100	(On Disk)			6
Traffic Engineering letter Library	9/99	TELL	50	(Included)			6
Traffic Engineer's Toolbox	6/97	TET	250	(On Disk)		W95	6
Traffic Information Program Series (TIPS) with Binder				TIPS TIPS.B	10 15		
Traffic Noise Model Ver. 1.1	10/00	TNM	695	(Included)		WIN	1
Traffic Signal Design Library	9/93	TSDDWG	100	(On Disk)			6
TUTOR/TEAPAC, Ver. 4.01	6/00	TPCTUT.1	95	(Included)			7
TUTOR/TEAPAC, WIN 3.x, Ver. 4.01	6/00	TPCTUT.1.WIN	95	(Included)		WIN	7
TUTOR/TEAPAC, WIN 95, Ver. 4.01	6/00	TPCTUT.1.W95	95	(Included)		W95/98/NT	7
<b>Traffic Engineering Safety &amp; Accident Records</b>							
Accident Records Summary and Diagrams	1/92	ACCI	95	(On Disk)			6
Highway Safety Analysis, Ver. 2.1	11/00	HSA.W95	500	(Included)		W95	7
KARS, Ver. 2.1	5/92	KARS	65	(Included)			3
Demo		KARS.DEM	15	(On Disk)			3
ROADSIDE, Ver. 5.0	1/96	ROADSIDE	50	(On Disk)			3
SCCOLD, Ver. 3.31	11/88	SCCOLD	75	(On Disk)			1
<b>Traffic Engineering Signal Timing &amp; Warrants</b>							
aaSIDRA-Full, Ver. 1.0.2, Professional Single	6/00	SID.FPS	\$690			W95/98/NT	6
COVER for aaSIDRA	11/00	SID.CVS	\$170				6
aaSIDRA Manual	11/00			SID.MAN	60		
Contact <b>McTrans</b> for educational, multiple copy and upgrade prices							
Advanced Traffic Analysis	3/95	TRAFFIC.CD	FREE				5
Arterial Analysis Package Executive, Release 4.2	2/94	AAPEX	200	AAPEX.D (MOST.V2)	35		1
				ATMS93.D	20		
ATMS Conference Proceedings	10/93						
Left-Turn Signal/Phase Warrant Program	6/96	LTPHASE	50				6
LTAP, Ver.2.1	12/87	LTAP	50	(On Disk)		IB	3
METS (Spanish Version of WEST)	12/96	METS	200	(Included)			6
M O S T Volume 1, Reference Manual				MOST.V1	40		
M O S T Volume 2, AAP Users Guide				MOST.V2	35		
M O S T Volume 3, PASSER II-90 Users Guide				MOST.V3	15		
M O S T Volume 4, TRANSYT-7F Users Guide				MOST.V4	40		
M O S T Volume 5, WHICH Users Guide				MOST.V5	20		
M O S T Binders				MOST.B	5		
NOSTOP/TEAPAC (12 Intersections), Ver. 4.32	1/00	TPCNST.1	395	(Included)			7
NOSTOP/TEAPAC (25 Intersections), Ver. 4.32	1/00	TPCNST.2	495	(Included)			7
Demo		TPCNST.0	5	(On Disk)			6
NOSTOP/TEAPAC (12 Intersections), Windows 3.1, Ver. 4.32	1/00	TPCNST.1.WIN	395	(Included)		WIN	7
NOSTOP/TEAPAC (25 Intersections), Windows 3.1, Ver. 4.32	1/00	TPCNST.2.WIN	495	(Included)		WIN	7
Demo, Windows 3.1		TPCNST.0.WIN	5	(On Disk)		WIN	6
NOSTOP/TEAPAC (12 Intersections), Windows 95, Ver. 4.32	1/00	TPCNST.1.W95	395	(Included)		W95	7
NOSTOP/TEAPAC (25 Intersections), Windows 95, Ver. 4.32	1/00	TPCNST.2.W95	495	(Included)		W95	7
P2BAT	11/91	P2BAT	5	(On Disk)			4
PASSER II-90, Ver. 2	12/90	P290	150	P290.D	15		1
M O S T Volume 3				MOST.V3	15		
PASSER III-98	6/99	P398	300	(On CD)			1
Upgrade from PASSER III-90		P398.UPG	170				1
PASSER IV-96, Ver.2.1	6/97	P496	250	P496.D	15		1
PREPASSR/TEAPAC (12 Intersections), Ver. 1.54	1/00	TPCPPS.1	395	(Included)			7
PREPASSR/TEAPAC (100 Intersections), Ver. 1.54	1/00	TPCPPS.2	595	(Included)			7
Demo		TPCPPS.0	5	(On Disk)			6
PREPASSR/TEAPAC (12 Intersections), Windows 3.1, Ver. 1.54	1/00	TPCPPS.1.WIN	395	(Included)		WIN	7
PREPASSR/TEAPAC (100 Intersections), Windows 3.1, Ver. 1.54	1/00	TPCPPS.2.WIN	595	(Included)		WIN	7
Demo, Windows 3.1		TPCPPS.0.WIN	5	(On Disk)		WIN	6
PREPASSR/TEAPAC (12 Intersections), Windows 95, Ver. 1.54	1/00	TPCPPS.1.W95	395	(Included)		W95	7
PREPASSR/TEAPAC (100 Intersections), Windows 95, Ver. 1.54	1/00	TPCPPS.2.W95	595	(Included)		W95	7
PRETRANSYT/TEAPAC (12 Intersections), Ver. 2.64	1/00	TPCPTR.1	495	(Included)			7



Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
PRETRANSYT/TEAPAC (100 Intersections), Ver. 2.64 📄 Demo	1/00	TPCPTR.2	695	(Included)			7
		TPCPTR.0	5	(On Disk)			6
PRETRANSYT/TEAPAC (12 Intersections), Windows 3.1, Ver. 2.64 📄	1/00	TPCPTR.1.WIN	495	(Included)		WIN	7
PRETRANSYT/TEAPAC (100 Intersections), Windows 3.1, Ver. 2.64 📄 Demo, Windows 3.1	1/00	TPCPTR.2.WIN	\$695	(Included)		WIN	7
		TPCPTR.0.WIN	5	(On Disk)		WIN	6
PRETRANSYT/TEAPAC (12 Intersections), Windows 95, Ver. 2.64 📄 <b>D</b>	1/00	TPCPTR.1.W95	495	(Included)		W95	7
PRETRANSYT/TEAPAC (100 Intersections), Windows 95, Ver. 2.64 📄 <b>D</b>	1/00	TPCPTR.2.W95	695	(Included)		W95	7
Progression Graphics and Optimization <b>D</b>	9/91	PROGO	250	(Included)			6
Demo (Includes SNAG)	9/91	PROGO.DEM	5				6
Tutorial (Includes SNAG)	9/91	PROGO.SNAG	5				6
Progression Through a Series of Intersections with Actuated Controllers	10/88			PROG.D	10		
QUICK-7F, Ver. 7.2	2/94	QUICK7F	250	QUICK7F.D	20		1
Upgrade to Supported		QUICK7F.UPG	200				
SIG/CINEMA, Ver. 2.1 <b>D</b>	9/99	SIGCIN	805	(Included)		W95/98/NT	7
SIGNAL85/TEAPAC Capacity Plus Optimization, Ver. 2.62 📄 Demo	2/95	TPCS85.2	595	(Included)			7
		TPCS85.0	5	(On Disk)			6
SIGNAL94/TEAPAC Capacity Plus Optimization, Ver. 1.23 📄 Demo	8/98	TPCS94.2	595	(Included)			7
		TPCS94.0	5	(On Disk)			6
SIGNAL94/TEAPAC Capacity Plus Optimization, Windows 3.1, Ver. 1.23 📄 Demo, Windows 3.1	8/98	TPCS94.2.WIN	595	(Included)		WIN	7
		TPCS94.0.WIN	5	(On Disk)		WIN	6
SIGNAL94/TEAPAC Capacity Plus Optimization, Windows 95, Ver. 1.23 📄 Demo, Windows 95	8/98	TPCS94.2.W95	595	(Included)		W95	7
		TPCS94.0.W95	5	(On Disk)		W95	6
SIGNAL97/TEAPAC Capacity plus Optimization, Windows 95, Ver. 1.02 📄 Demo, Windows 95	1/00	TPCS97.2.W95	595	(Included)		W95	7
		TPCS97.0.W95	5	(On Disk)		W95	6
SIGNAL97/TEAPAC Capacity plus Optimization, Windows 3.1, Ver. 1.02 📄 Demo, Windows 3.1	1/00	TPCS97.2.WIN	595	(Included)		WIN	7
		TPCS97.0.WIN	5	(On Disk)		WIN	6
SIGNAL97/TEAPAC Capacity plus Optimization, Ver. 1.02 📄 Demo	1/00	TPCS97.2	595	(Included)			7
		TPCS97.0	5	(On Disk)			6
<b>update</b> SIGNAL2000/TEAPAC Cap. plus Optimization, Windows 95, Ver. 1.10 📄 Demo	10/01	TPCS2K.2.W95	595	(Included)		W95/98/NT	7
		TPCS2K.0.W95	5	(On Disk)		W95/98/NT	6
SIGNAL2000/TEAPAC Cap. plus Optimization, Windows 3.x, Ver. 1.0 📄 Demo	10/00	TPCS2K.2.WIN	595	(Included)		WIN	7
		TPCS2K.0.WIN	5	(On Disk)		WIN	6
SIGNAL2000/TEAPAC Cap. plus Optimization, DOS & OS/2, Ver. 1.0 📄 Demo	10/00	TPCS2K.2	595	(Included)		DOS & OS/2	7
		TPCS2K.0	5	(On Disk)		DOS & OS/2	6
Signal Network Animated Graphics <b>D</b>	9/91	SNAG	250	(Included)			6
Demo (Includes PROGO)	9/91	SNAG.DEM	5				6
Tutorial (Includes PROGO)	9/91	PROGO.SNAG	5				6
Signal Timing Database	6/99	ATCSTDB	395	(Included)		Access	6
SOAP84, Ver. 84.04	12/88	SOAP	50	SOAP.D	30		1
TEAPAC Signal Timing Analysis Package	10/00	TPC*.2	2495	(Included)		W95/WIN	7
TIMACS, Ver. 1.2	7/89	TIMACS	50	TIMACS.D	5		3
Traffic Models Handbook	12/95			TMOH.D	20		
TRANNET, Release 7.1	3/95	TRANNET	40	(Included)			3
<b>update</b> TRANSYT-7F, Release 9.3 📄 Upgrade from Release 8.2	6/01	MCT7F9	500	MOST.V4	50		1
		MCT7F9.UPG	150				1
TRANSYT-7F Self Study Guide	7/89	T7FSSG	95	(Included)			3
WARRANT, Ver. 1.0	7/91	WARRANT	50	(On Disk)			3
WARRANTS/TEAPAC Warrants Only, Ver. 1.23 📄	1/00	TPCWAR.1	395	(Included)			7
WARRANTS/TEAPAC Plus Tabulation & Peak Hour, Ver. 1.23 📄 Demo	1/00	TPCWAR.2	595	(Included)			7
		TPCWAR.0	5	(On Disk)			6
WARRANTS/TEAPAC Warrants Only, Windows 3.1, Ver. 1.23 📄	1/00	TPCWAR.1.WIN	395	(Included)		WIN	7
WARRANTS/TEAPAC Plus Tabulation & Peak Hour, Windows 3.1, Ver. 1.23 📄 Demo	1/00	TPCWAR.2.WIN	595	(Included)		WIN	7
		TPCWAR.0.WIN	5	(On Disk)		WIN	6
<b>update</b> WARRANTS/TEAPAC Warrants Only, Windows 95, Ver. 2.00 📄	10/01	TPCWAR.1.W95	395	(Included)		W95	7
WARRANTS/TEAPAC Plus Tabulation & Peak Hour, Windows 95, Ver. 2.00 📄 <b>D</b>	10/01	TPCWAR.2.W95	595	(Included)		W95	7
WEST, Ver. 2.20	2/95	WEST	200	(Included)			6
WHICH 📄	2/94	WHICH	250	WHICH.D	20		1
				(MOST.V5)			
<b>Traffic Engineering Simulation &amp; Analysis</b>							
CORFLO, Ver. 5.0 <b>D</b>	3/95	CORFLO	350	TRAF.D	50		1
CORSIM CBT	9/99	CORCBT	145	(Included)		W95	1
FLEXSYT-II	12/95	FLEXSYT	3000			Win	7
INTEGRATION, Ver. 2.20	3/00	INTEG	395	(Included)			6
<b>update</b> ITRAF, Ver. 4.0 Upgrade for 3.0	6/01	ITRAF40	100	(Included)		W95	2
		ITRAF4.UPG	25				

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
PRENETSIM/TEAPAC (12 Intersections) Ver.1.24 🏠	1/00	TPCPNT.1	495	(Included)			7
PRENETSIM/TEAPAC (100 Intersections) Ver.1.24 🏠	1/00	TPCPNT.2	\$695	(Included)			7
Demo		TPCPNT.0	5	(On Disk)			6
PRENETSIM/TEAPAC (12 Intersections), Windows 3.1, Ver.1.24 🏠	1/00	TPCPNT.1.WIN	495	(Included)		WIN	7
PRENETSIM/TEAPAC (100 Intersections) Windows 3.1, Ver.1.24 🏠	1/00	TPCPNT.2.WIN	695	(Included)		WIN	7
Demo, Windows 3.1		TPCPNT.0.WIN	5	(On Disk)		WIN	6
PRENETSIM/TEAPAC (12 Intersections), Windows 95, Ver.1.24 🏠 D	1/00	TPCPNT.1.W95	495	(Included)		W95	7
PRENETSIM/TEAPAC (100 Intersections), Windows 95, Ver.1.24 🏠 D	1/00	TPCPNT.2.W95	695	(Included)		W95	7
Demo, Windows 95		TPCPNT.0.W95	5	(On Disk)		W95	6
TEXAS, Ver. 3.11 D	7/92	TEXAS	225	TEXAS.D	25		1
TSIS, Ver. 5.0 (Complete Package)	6/01	TSIS5.W95	500	TSIS.D	50	W95	1
Upgrade for 4.2	6/01	TSIS5.UPG	250			W95	1
VISSIM, Ver 3.5, Level I	3/01	STSIML1	500	(Included)		W95/98/NT	7
VISSIM, Ver 3.5, Level II	3/01	STSIML2	1500	(Included)		W95/98/NT	7
VISSIM, Ver. 3.5, Level III	3/01	VISSIML3	12000	(Included)		W95/98/NT	7
VISSIM, Ver. 3.5, Level IV	3/01	VISSIML4	15000	(Included)		W95/98/NT	7
<b>Traffic Engineering Traffic Maintenance</b>							
Berkeley Traffic System III	10/88	BTS3	200	BTS3.D	20	dB3+	1
KAR II, Ver. 7.0	11/93	KAR II	1500	(Included)			6
North Dakota Sign Management System, Ver. 4.0	2/93	NDSMS	50	NDSMS.D	5		3
QUEWZ		QUEWZ	5	QUEWZ.D	5		5
Sign Inventory System	6/92	SIS	50	SIS.D	20		3
<b>Transit Operations</b>							
Automated Transit Ridership Data	8/90	ATRDCS	50	ATRDCS	45		3
Chapel Hill Scheduler Interactive Bus Scheduler	5/85	CHS	50	CHS.D	5		3
Cost Allocation Applications	7/86	COST	50	COST.D	5	L123	3
Days Off Calculator, Ver. 3.0 (DOS), Ver. 2.0 (WIN)	4/98	DAYS	5	(On Disk)		WIN	4
Fixed Guideway Transit	7/92	FGT	50	FGT.D	10		3
Fleetmax	7/94	FMX	995	(Included)			7
Windows Version	7/94	FMX.WIN	995	(Included)			7
Demo		FMX.DEM	5	(Included)			7
GFI Farebox Software Utilities	3/97	FAREBOX	5	(Included)			4
Inventory CTRL	7/92	ICTRL	1195	(Included)			7
Demo	7/92	ICTRL.DEM	5				7
Paratransit Vehicle Maintenance	7/91	PVM	50	PVM.D	20		3
Section 15 Transit Agency Performance Data		SECT15	20	SECT15.D	15	L123	3
Section 15 Data, 1981-1997 (Specify Year)	12/87	SST3	50	SST3.D	5	DB3	3
SST3: Small Transit Management Software	2/85	VCTRL	1295	(Included)			7
Vehicle CTRL	2/85	VCTRL.DEM	10				7
Demo							
<b>Transit Planning</b>							
Bus Transit Garage Space Requirements Model		BBARN	695	(Included)			7
CAM (Cost Allocation Model), Ver. 1.0	11/98	CAM	50	CAM.D	5	L123	3
RPT Spreadsheets	9/95	RPT	50	RPT.D	25		3
Transit Route Planning CAI Course	5/97	CAI	15	(Included)		WIN	5
<b>Transportation Planning Data Processing</b>							
Advanced General Network Editor, Ver. 6.0 for Windows	3/99	GNE.WIN	245	(Included)			7
License Plate Data Analysis Package 🏠	6/96	LPLATE	775	(Included)			7
MVMACH, Ver. 5.4 🏠	6/99	MVMACH	1500	(Included)		W95/WIN	7
Survey	6/99	SURV	1500	(Included)		W95/WIN	7
TagMatcher, Ver 1.0	6/01	TAGMTCH.W95	500	(Included)		W95	7
Traffic Interpolator & Extrapolater Software		TIES	150	(Included)			6
ZDATA, Ver. 1.3	9/89	ZDATA	50	(Included)			6
<b>Transportation Planning Demand Modeling</b>							
HieLoW-Hierarchical Logit for Windows™ (English)	9/95	HIELOW.EN	4000	(Included)		WIN	7
HieLoW-Hierarchical Logit for Windows™ (French)	9/95	HIELOW.FR	4000	(Included)		WIN	7
Demo	9/95	HIELOW.DEM	10				
The Highway Emulator	7/91	THE	50	THE.D	15		3
TMOVES, Ver. 1.1	12/89	TMOVES	50	TMOVES.D	5		3
Travel Demand Management Evaluation D	11/93	TDM	250	TDM.D	20		1
Model, Ver. 2.2							
UfosNET Professional A	6/96	UFOSNET	9500	(Included)			7
UfosNET Professional B		UFOSNETB	6500	(Included)			7
UfosNET Lite		UFOSLIT	\$3500	(Included)			7
UfosNET Academic		UFOSACA	995	(Included)			7

Product Description	Release Date	Software Product No.	Price	Documentation Product No.	Price	Supporting Software	LOS
<b>Transportation Planning Network Assignment</b>							
b-Node Model, Ver.1.0	6/99	BNODE	900	(included)			7
MicroTRIMS, Ver. 1.1	12/88	MCTRIMS	55	MCTRIMS.D	\$5		3
QRS II, Ver. 6.0	7/00						
QRS and ADV.GNE (400 Zones)		QRSGNE.400	390	(Included)		W95/WIN	7
QRS and ADV.GNE (800 Zones)		QRSGNE.800	585	(Included)		W95/WIN	7
QRS and ADV.GNE (1600 Zones)		QRSGNE1.600	780	(Included)		W95/WIN	7
QRS and ADV.GNE (3600 Zones)		QRSGNE3.600	975	(Included)		W95	7
Demo for QRS II and GNE		QRSGNE.DEM	5	(Included)			6
SATURN, Ver. 8.4	8/93	SATURN	12950				7
TMODEL2™, Ver. 2.0		TMODEL2	3800	(Included)			7
TMODEL2, Education Version		TMODEL2.ED	150	(Included)			7
TMODEL2, Sample Version		TMODEL2.DEM	125	(Included)			7
TP/4-in-1	6/99	TP4IN1	900	(Included)			7
TrafikPlan™		TRAFIKP	1995	(Included)			6
Educational		TRAFIKP.ED	495	(Included)			6
TRIPS/32 (Basic Highways)		TRIPS	8715 <sup>2</sup>	(Included)		W95/WIN	7
Call for details on additional modules.							
<b>Transportation Planning Project Management</b>							
<b>new!</b> BC Auditor	10/01	BCAUD.W95	\$225	(Included)		W95	6
Better Decisions, Release 4		BD	95	(Included)			7
Highway Design and Maintenance		HDM	400	(Included)			1
Standards Model (HDM III and HDM-PC)				(See Highway Engineering/Pavements)			
ITS Deployment Analysis System, Ver. 1.0	6/00	IDAS	795	(On CD)		W95/98/NT	1
User's Manual (hard copy, black & white, unbound)				IDAS.D	30		
MicroBENCOST, Ver.2.0	9/99	BENCOST	95	BENCOST.D	35		3
Municipal Equipment Management System	4/93	MEMS	50	MEMS.D	20	IB	3
Program Development and Management System		PDMS	250	(Included)			7
Surface Transportation Efficiency Analysis Model, Ver. 1.0	11/00	STEAM	55	(Included)		W95	3
<b>new!</b> TransDec	10/01	TRAN.D.W95	\$55			W95	3
Turbo Architecture, Ver. 1.0	3/00	TURBO.W95	190	(On CD)			8
User's Manual (hard copy, black & white, unbound)				TURBO.D	20		
<b>Transportation Planning Site Analysis</b>							
ASSIGN9		ASSIGN9	700	(Included)			7
Demo		ASSIGN9.DEM	20				7
Intersection Analysis Spreadsheets, Version 3.0	7/90	IAS	50	IAS.D	5	L123	3
SITE, Ver. 2.0	7/89	SITE	50	(On Disk)		L123	3
Macintosh Version		SITE.MAC	50	(On Disk)		EXC	3
SITE/TEAPAC (12 Intersections), Ver. 4.00	6/00	TPCSIT.1	395 <sup>1</sup>	(Included)			7
SITE/TEAPAC (25 Intersections), Ver. 4.00	6/00	TPCSIT.2	495 <sup>1</sup>	(Included)			7
Demo		TPCSIT.0	5	(On Disk)			6
SITE/TEAPAC (12 Intersections), Windows 3.x, Ver. 4.00	6/00	TPCSIT.1.WIN	395 <sup>1</sup>	(Included)		WIN	7
SITE/TEAPAC (25 Intersections), Windows 3.x, Ver. 4.00	6/00	TPCSIT.2.WIN	495 <sup>1</sup>	(Included)		WIN	7
Demo		TPCSIT.0.WIN	5	(On Disk)		WIN	6
SITE/TEAPAC (12 Intersections), Windows 95, Ver. 4.00 <sup>D</sup>	6/00	TPCSIT.1.W95	395 <sup>1</sup>	(Included)		W95	7
SITE/TEAPAC (25 Intersections), Windows 95, Ver. 4.00 <sup>D</sup>	6/00	TPCSIT.2.W95	495 <sup>1</sup>	(Included)		W95	7
TEAPAC Site Impact Analysis Package	10/00	TPC*. *.3	2195 <sup>1</sup>	(Included)		W95/WIN	7
TRAFFIX Traffic Impact Analysis Software, Ver. 7.5 (Including HCM Module) <sup>⚡D</sup>	6/01	TRAFFIX.W95	2900	TRAFFIX.D	75	W95	7
TRAFFIX Lite Ver. 7.5	6/01	TRFIXLIT.W95	1595				7
TRAFFIX 1997 HCM Module Separate	12/99	TRAFFIX.M	250			W95	7
TRANMAP Site Traffic Impact Analysis	9/97	TRANMAP	900	Included)			7
TRIP GENERATION, Ver. 4.0	3/98	TRIPGEN	400	(Included)			7
WinTASS, Ver.2.0 <sup>D</sup>	3/98	WINTASS	295	(Included)		W95/WIN	7
<b>General interest Administration</b>							
Equipment Manager, Ver.1.51		EQMGR	1495	(Included)			7
HIGHMANAGE	3/90	HMNG	1500	(Included)			6
<b>General interest Miscellaneous</b>							
CADmagic, Ver.1.5		CADM	100	(Included)			7
DMPLAS, Ver.1.1	11/91	DMPLAS	5	(On Disk)			4
Engineering Geometry Assistant	3/99	EGA	350	(Included)		W95/98/NT	7
McPrimer, Third Edition	6/93	MCP	20	(Included)			6
Educational		MCP.ED	15	(Included)			6
McPRIMER for WINDOWS	6/94	MCPWIN	20				
Sample Size Estimate		SAMSIZE	50	(Included)			7
<b>new!</b> TimeTech	10/01	TIMETEC	\$75			ACAD	7
ZTEST		ZTEST	65	(Included)			7



**Schedule of Selected Multiple & Agency User License Fees**

Program <sup>1</sup>	Single License	Multiple License <sup>2</sup>	Limited Agency License Maximum Number of Offices				Unlimited Agency License
			10	15	20	25	
AAPEX	\$200	\$180	\$1200	\$1800	\$2400	\$3000	\$4500
BOXCAR	225	200	1230	2025	2700	3375	5000
BTS3	200	180	1200	1800	2400	3000	4500
CORFLO	350	315	2100	3150	4200	5250	7875
DILLY	300	270	1800	2700	3600	4500	6750
HCS2000	500	450	3000	4500	6000	7500	11250
HYDRAIN	350	315	2100	3150	4200	5250	7875
PASSER II	150	135	900	1350	1800	2250	3375
PASSER III	300	270	1800	2700	3600	4500	6750
PASSER IV	250	225	1500	2250	3000	3750	5625
PIPECAR	175	155	1050	1575	2100	2625	3925
PL-AID	500	450	3000	4500	6000	7500	11250
QUICK-7F	250	225	1500	2250	3000	3750	5625
QUICKHOV	250	225	1500	2250	3000	3750	5625
SET-SAND	50	45	300	450	600	750	1125
SHAFT	200	180	1200	1800	2400	3000	4500
SHAFTUF	200	180	1200	1800	2400	3000	4500
SCCOLD	75	65	450	675	900	1125	1625
SOAP	50	45	300	450	600	750	1125
TDM	250	225	1500	2250	3000	3750	5625
TEXAS	225	200	1350	2025	2700	3375	5000
TSIS	500	450	3000	4500	6000	7500	11250
TRANSYT-7F	500	450	3000	4500	6000	7500	11250
TURBO	190	170	1140	1750	2280	2850	
WHICH	250	225	1500	2250	3000	3750	5625

- 1 See catalog and product list for details.
- 2 Cost per license.
- 3 Limited Agency Licenses allow up to the specified number of copies to be used by the licensed agency.
- 4 Does not include cables, which are available for \$20 each.

**Documents:**  
 Single license = full price  
 Multiple license = 10 percent discount  
 Agency license = one provided, additional copies at 10 percent discount with the original order, or later with a minimum of five documents.

**Trademark Information**

Apple Computer, Inc. Apple®, Macintosh®

Borland/International dBASE®, dBASE III®, dBASE III Plus®, dBASE IV®, dBRUN®

Epson America, Inc. EPSON®

Hercules Computer Technology Hercules™

International Business Machines Corp. IBM®, IBM PC®, IBM PC XT®, IBM PC AT®, PC-DOS®, OS/2®, IBM PS/2®

Lotus Development Corp. Lotus 1-2-3®, Symphony®

Microsoft Corp. Microsoft®, MS-DOS®, Windows95®, Windows98®, WindowsNT®, EXCEL®

Texas Transportation Institute PASSER®

Center for Microcomputers in Transportation McTrans™

HCS®

University of Florida

**Ordering Tips**

*Please include your member number (located on the mailing label) with all orders and correspondence. This allows us to process your order without delay and helps to avoid duplications.*

*It is important to completely fill out the McTrans order form, even when you enclose your company or agency purchase order.*

*Most orders are shipped via UPS, so it is important to have a street address. UPS will not deliver to a post office box. When ordering product upgrades, please be sure to include the registration number of the product being upgraded. Upgrades should be ordered by the registered user. This also applies to add-ons for the multiple license discount.*

*Problems with an order are rare, and most can be solved with a phone call. In the rare event that a product return is required, please obtain authorization before returning an order to McTrans.*

*Your order can be expedited by faxing a completed McTrans Order Form when you use a credit card or purchase order. Our fax number is (352) 392-6629. Or, contact McTrans for an E-mail order form: mctrans@ce.ufl.edu*

*If you require rush shipping via FedEx (Federal Express), we will try to ship on the same day, if the order arrives before 12 noon. This is not always possible, but we make every effort to expedite these orders.*

**McTrans Center**  
 University of Florida  
 PO Box 116585  
 Gainesville, FL 32611-6585  
 FEID# 59-6002052

(352) 392-0378  
 Toll Free 1-800-226-1013  
 Fax (352) 392-6629  
 E-mail: mctrans@ce.ufl.edu  
 http://mctrans.ce.ufl.edu

ORDER NO. \_\_\_\_\_  
 DATE RECEIVED \_\_\_\_\_  
 MEMBER NO. \_\_\_\_\_

## Ship to:



MEMBER NUMBER (IMPORTANT)

## Bill Purchase Order To:

### E-Mail Address

NAME \_\_\_\_\_ TITLE \_\_\_\_\_

ORGANIZATION \_\_\_\_\_ DEPARTMENT \_\_\_\_\_

ADDRESS (Do Not Use P.O. Box Number) \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

( \_\_\_\_\_ ) ( \_\_\_\_\_ )  
 PHONE FAX

CHECK IF NEW ADDRESS OR NEW MEMBER

FIRM NAME \_\_\_\_\_

ATTENTION \_\_\_\_\_

ADDRESS \_\_\_\_\_

CITY, STATE, ZIP \_\_\_\_\_

FEID NO. OR SOCIAL SECURITY NO. \_\_\_\_\_

### New Members:

Please specify areas of interest

- Highway design, pavements, bridge design and hydraulics
- Safety and accident records
- Traffic engineering
- Urban transportation planning
- Environmental (air, water and noise analysis)
- Construction management
- Maintenance
- Transit
- Surveying and photogrammetry

No.	Product No.	Description (Include Registration No. for Upgrades & Add-ons)	Quantity	Unit Cost	Total Cost
1					
2					
3					
4					
5					
6					
7					
8					
9					

Use additional copies if needed.

### Please indicate method of payment below (U.S. Dollars only):

- Check enclosed. No. \_\_\_\_\_ payable to University of Florida—**McTrans** Center  
 U.S. dollar checks drawn on U.S. banks, or money orders, please.
- VISA/MC No. \_\_\_\_\_ Expires \_\_/\_\_/\_\_  
 Name as it appears on card \_\_\_\_\_
- Purchase Order **Enclosed**. No. \_\_\_\_\_  
 (Terms: Due upon receipt, copy of P.O. must accompany order.)
- If you wish us to ship by FedEx (only) include your FedEx No. \_\_\_\_\_

Subtotal \_\_\_\_\_

OUTSIDE U.S. & CANADA Estimated Shipping:  
 25% (Maximum \$25 per item) \_\_\_\_\_

FLORIDA CUSTOMERS ONLY: add 6% sales tax  
 plus county surtax, or your FL Tax Exempt No. \_\_\_\_\_

**Order Processing Fee** \$10.00

Total amount enclosed\* \_\_\_\_\_

\*Orders **will not** be accepted without this form (copy is OK) and an approved method of payment for the proper amount, including Order Processing Fee.

**We are here to serve you. Thank you for your support.**