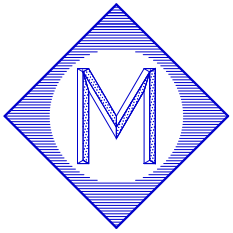


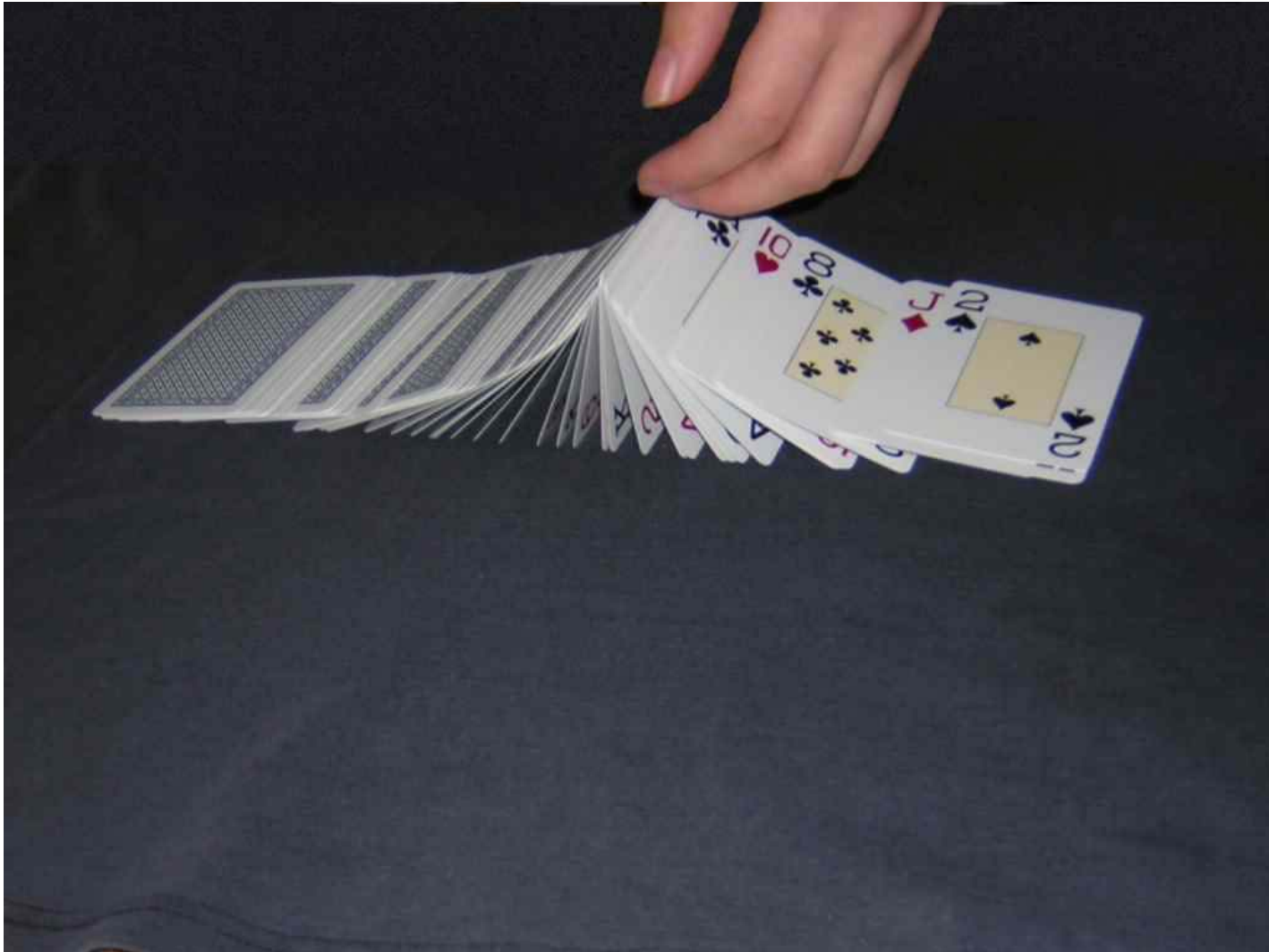
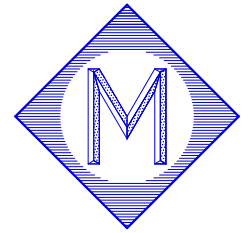
TRICS – A User’s Perspective

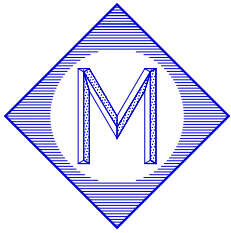
Sandy Macdonald

A.F. Macdonald & Partners

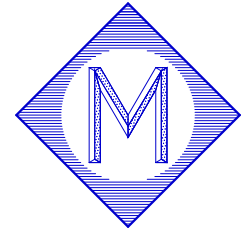


TRICS – A Users Perspective

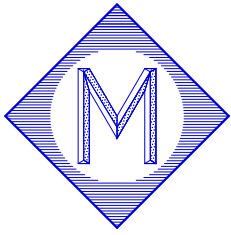




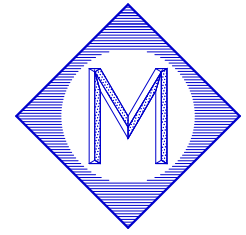
TRICS – A User's Perspective



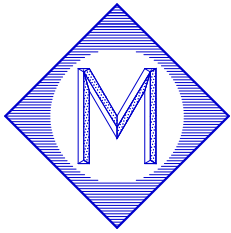
- It is not a bag of tricks
- It is easy to trick with TRICS
- Follow the Good Practice Guide
- not the Mal-practice Guide.



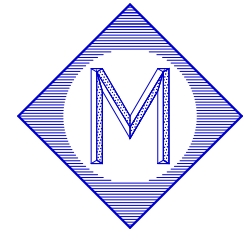
TRICS – A User's Perspective



- In doing a TA for a Golf Hotel, I had to take into account a recently approved TA for a foodstore (6500 m²) which was to gain access close by and much of the traffic from which would use the same roundabout.
- That TA gave the TRICS average peak hour trip generation as less than any site I could locate.
- Perhaps consultant knew that the LA did not have access to TRICS.

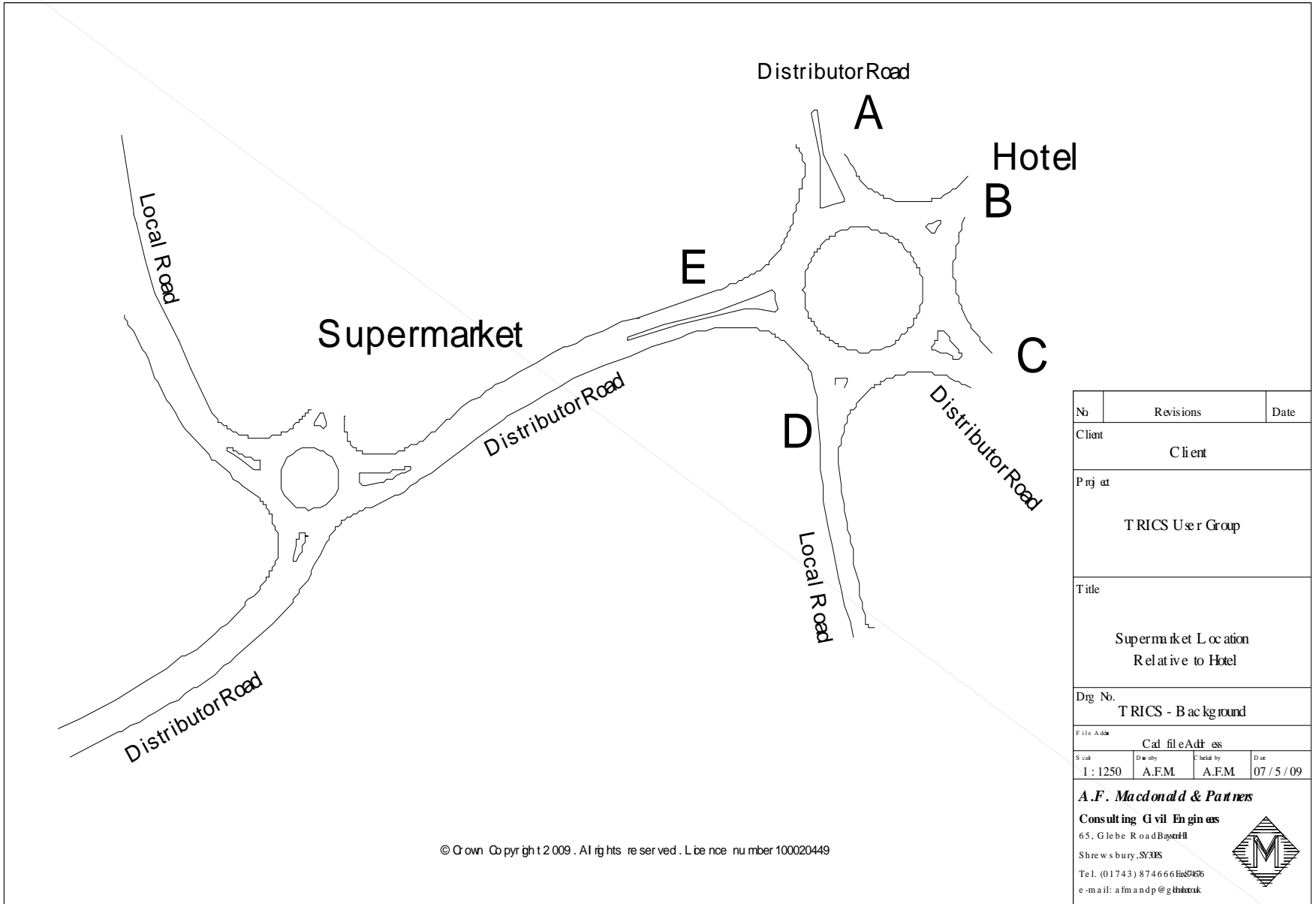


TRICS – A User's Perspective



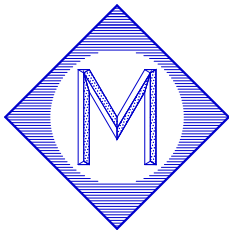
- Strangely, the roundabout appeared just to work based on the TA predictions.
- The Consultant had only provided a table showing what purported to be the TRICS data (averages).
- Unless I misunderstood his basis, It appeared that the figures were less than the lowest site on the database.

TRICS – A User’s Perspective

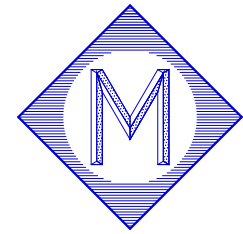


No	Revisions	Date
Client Client		
Project TRICS User Group		
Title Supermarket Location Relative to Hotel		
Dwg No. TRICS - Background		
File Address File Address		
Scale 1:1250	Drawn by A.F.M.	Checked by A.F.M.
Date 07/5/09		
A.F. Macdonald & Partners Consulting Civil Engineers 65, Glebe Road, Bayswater Shrewsbury, SY3 3JS Tel. (01743) 874666 Fax 89436 e-mail: a.f.m.a.p@btinternet.com		

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TRICS – A User’s Perspective



**Table App 5.22 - Traffic Surveyed by _____ in 1998
factored to 2002 by 1.0334 (NRTF Low Growth)**

Roundabout		Friday Evening Peak Hour 17:00 - 18:00			
2000 Base Data		A	B	C	E
Way	A	0	5	282	190
Road	B	2	0	0	13
	C	549	0	0	309
	E	246	0	220	0

Table App 5.23 - Predicted Traffic from Food Store

Roundabout		Friday Evening Peak Hour 17:00 - 18:00			
Generated Traffic - Food Retail		A	B	C	E
Way	A	0	0	0	66
Road	B	0	0	0	0
	C	0	0	0	44
	E	67	0	45	0

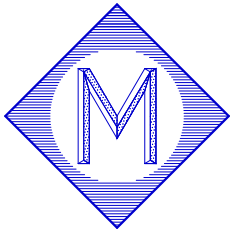
TRICS – A User’s Perspective

TRIP RATE for Land Use RETAIL/FOOD SUPERSTORE

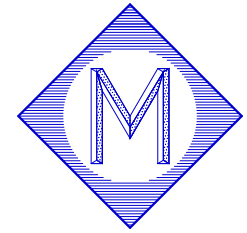
Calculation Factor: 100 sqm

BOLD print indicates peak (busiest) period

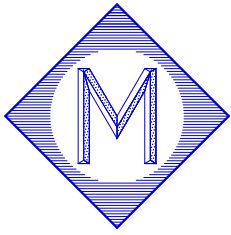
Time Range	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate	No. Days	Ave. GFA	Trip Rate
00:00 - 01:00	9	4995	0.27	9	4995	0.40	9	4995	0.68
01:00 - 02:00	8	4360	0.18	8	4360	0.24	8	4360	0.42
02:00 - 03:00	8	4360	0.13	8	4360	0.13	8	4360	0.26
03:00 - 04:00	8	4360	0.11	8	4360	0.13	8	4360	0.24
04:00 - 05:00	8	4360	0.10	8	4360	0.11	8	4360	0.21
05:00 - 06:00	8	4360	0.30	8	4360	0.17	8	4360	0.47
06:00 - 07:00	11	4702	0.69	11	4702	0.53	11	4702	1.22
07:00 - 08:00	47	5085	1.12	47	5085	0.74	47	5085	1.85
08:00 - 09:00	75	5118	3.32	75	5118	1.83	75	5118	5.15
09:00 - 10:00	84	5179	5.48	84	5179	3.50	84	5179	8.98
10:00 - 11:00	84	5179	6.02	84	5179	5.20	84	5179	11.22
11:00 - 12:00	84	5179	6.08	84	5179	6.08	84	5179	12.16
12:00 - 13:00	84	5179	6.16	84	5179	6.33	84	5179	12.50
13:00 - 14:00	84	5179	6.03	84	5179	6.08	84	5179	12.11
14:00 - 15:00	84	5179	6.31	84	5179	6.18	84	5179	12.49
15:00 - 16:00	84	5179	6.36	84	5179	6.49	84	5179	12.85
16:00 - 17:00	84	5179	7.09	84	5179	6.95	84	5179	14.04
17:00 - 18:00	84	5179	7.15	84	5179	7.43	84	5179	14.57
18:00 - 19:00	84	5179	6.33	84	5179	6.85	84	5179	13.18
19:00 - 20:00	82	5194	4.53	82	5194	5.91	82	5194	10.43
20:00 - 21:00	70	5360	2.52	70	5360	4.00	70	5360	6.52
21:00 - 22:00	42	5439	1.47	42	5439	2.29	42	5439	3.77
22:00 - 23:00	27	5532	0.54	28	5414	1.02	27	5532	1.56
23:00 - 24:00	12	5150	0.38	12	5150	0.56	12	5150	0.94
Daily Trip Rates:			78.67			79.14			157.81



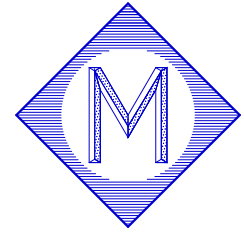
TRICS – A User's Perspective



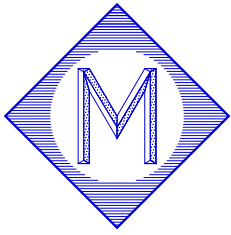
- It is obvious that the 6500 m² will produce about 65 * 14.5 movements in the Fri pm peak or about 950 movements.
- The largest housing areas were accessed via the roundabout and yet only about 220 movements were shown gaining access this way.



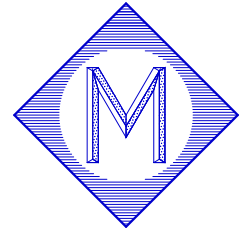
TRICS – A User's Perspective



- Enhancements to TRICS come when the Consortium is aware of a need.
- How can we help?
- The TRICS Team will listen.



TRICS – A User's Perspective



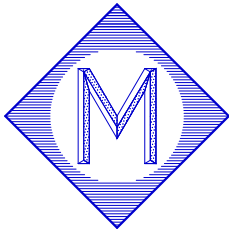
1. Report data errors or possible errors.

Possibilities are:

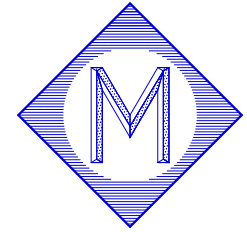
Sites wrongly classified – e.g. cottage hospital as care home (now reclassified)

Industrial Estate with retail included (now removed from database).

Both the above examples produced high trip rates in initial analyses and were initially identified using the Rank Order facility



TRICS – A User’s Perspective



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DEVELOPMENT DETAILS FOR DG-05-F-01 / 01

Site Reference: DG-05-F-01
Trade Name: **LOCHMABEN COMMUNITY HOSPITAL - Listed Under Nursing Homes**
Site Area (h/a): 1.17

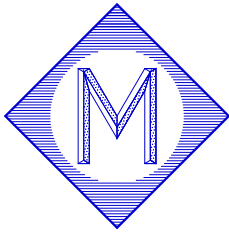
Open Since 1996
Employees 65
Number of Residents 32
Distance to nearest similar site 13 Km

OPENING TIMES (24 Hour Format)
Mon to Thurs 00:00 to 24:00
Friday 00:00 to 24:00
Saturday 00:00 to 24:00
Sunday 00:00 to 24:00

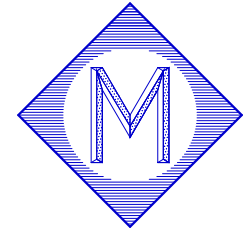
Total No. of Parking Spaces	33				
Visitor/Customer Spaces	19	Employee Spaces	12	Disabled Spaces	2
Cycle Racks	0	OGV Loading Bays	0	OGV Parking Spaces	0
Mother & Toddler Spaces	0				
Parking Charges	No	Surface Parking	Yes		

Comments

Of the 65 employees, 19 are full time and 46 are part time.
The Gross Floor Area of this site is 1660m².



TRICS – A User’s Perspective



TRICS 4.6 Copyright(C) 1998-2001, JMP Consultants Ltd Wednesday 15/06/05

DEVELOPMENT DETAILS FOR ST-02-D-02 / 01

Page 1

Site Reference: ST-02-D-02
Trade Name: PARKHOUSE INDUSTRIAL ESTATE (EAST)

Site Area (h/a): 27.3 Gross Floor Area (sqm) 27350

Open Since 1980
Full Time Employees 1147 Part Time Employees 317
Number of Units 87
Distance to nearest similar site -1 Km

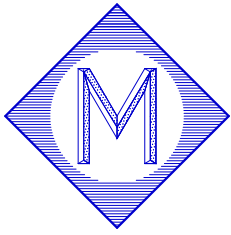
OPENING TIMES (24 Hour Format)
Mon to Thurs 00:00 to 00:00
Friday 00:00 to 00:00
Saturday 00:00 to 00:00
Sunday 00:00 to 00:00

Total No. of Parking Spaces -1 Visitor/Customer Spaces 0 Employee Spaces 0
Disabled Spaces 0 Cycle Racks 0 OGV Loading Bays 0
OGV Parking Spaces 0 Mother & Toddler Spaces 0

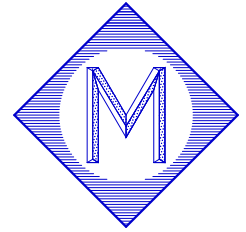
Parking Charges No Surface Parking Yes

Comments

This site is of mixed industrial use, consisting of heavy industry, light industry, distribution and **some retail usage**.
The site includes a brick factory that operates 12-hour shifts.

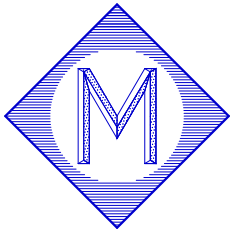


TRICS – A User's Perspective

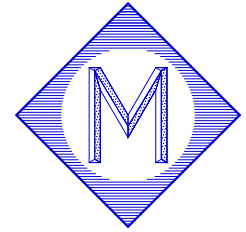


Highlights the need to check rank order and to check the site details; otherwise results can be too high. The hospital was not the highest Trip Rate.

Caution – Consider if Industrial Estate will have an element of retail.



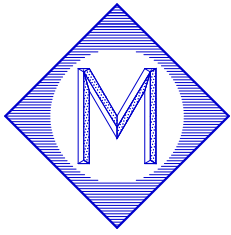
TRICS – A User's Perspective



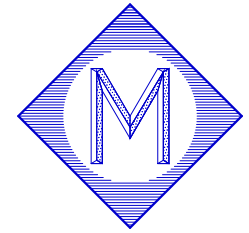
2. If you see any category or method of analysis that should be included in TRICS, **let the TRICS team know.**

They will examine and, subject to agreement of the Consortium Members, get the database amended.

e.g. analysis by housing density.



TRICS – A User's Perspective



- You may spot an area where the TRICS displays could be made more user friendly, or speed up the time analysis process.
- The TRICS team has received numerous comments over the years and will implement changes where practical.
- I have recently suggested changes in the rank order process, and these are best illustrated in the following screen shots.

TRICS – A User’s Perspective

Lotus SmartSuite Internet Reminders Reference Suite Help Addresses

http://localhost:8000/EXEC/26/0d4uivz1s9vr5h18nru6k0qthjpy - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Refresh Print Mail

Address http://localhost:8000/EXEC/26/0d4uivz1s9vr5h18nru6k0qthjpy Go Links

TRICS MAIN MENU ▶ INITIAL PARAMETERS ▶ MAIN PARAMETERS ▶ SECONDARY PARAMETERS ▶ TRIP RATE [Help Desk](#) [Log Out](#) [Off-Line Version - Click](#)

Land Use 05 - HEALTH F - NURSING HOMES

Graph Rank Copy Data Print Selection Help Previous Screen

VEHICLES Estimate TRIP rates

TRIP RATE VALUE PER 1 RESIDE	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. RESIDE	Trip Rate
00:00-01:00	1	19	0.000	1	19	0.000	1	19	0.000
01:00-02:00	1	19	0.000	1	19	0.000	1	19	0.000
02:00-03:00	1	19	0.000	1	19	0.000	1	19	0.000
03:00-04:00	1	19	0.000	1	19	0.000	1	19	0.000
04:00-05:00	1	19	0.000	1	19	0.000	1	19	0.000
05:00-06:00	1	19	0.000	1	19	0.000	1	19	0.000
06:00-07:00	1	19	0.105	1	19	0.053	1	19	0.158
07:00-08:00	17	69	0.128	17	69	0.066	17	69	0.194
08:00-09:00	17	69	0.056	17	69	0.047	17	69	0.103
09:00-10:00	17	69	0.060	17	69	0.031	17	69	0.091
10:00-11:00	17	69	0.070	17	69	0.052	17	69	0.122
11:00-12:00	17	69	0.075	17	69	0.073	17	69	0.148
12:00-13:00	17	69	0.057	17	69	0.064	17	69	0.121
13:00-14:00	17	69	0.095	17	69	0.082	17	69	0.177
14:00-15:00	17	69	0.100	17	69	0.116	17	69	0.216
15:00-16:00	17	69	0.064	17	69	0.096	17	69	0.160
16:00-17:00	17	69	0.069	17	69	0.093	17	69	0.162
17:00-18:00	17	69	0.045	17	69	0.072	17	69	0.117
18:00-19:00	17	69	0.052	17	69	0.067	17	69	0.119
19:00-20:00	7	52	0.087	7	52	0.074	7	52	0.161
20:00-21:00	6	54	0.025	6	54	0.028	6	54	0.053

Total rate: 1.097
Peak: 07:00-08:00

Total rate: 1.032
Peak: 14:00-15:00

Total rate: 2.129
Peak: 14:00-15:00

Weighting factors can affect trip rates. For further information please review section 13 of the following document.

[Good Practice Guide](#)

Local intranet 17

start TRICS MANAGER http://localhost:8000... 20:45

TRICS – A User's Perspective

Lotus SmartSuite Internet Reminders Reference Suite Help Addresses

http://localhost:8000/EXEC/9/01itki60lchq81e5ed7h0twdv6c - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media Refresh Print Mail

Address http://localhost:8000/EXEC/9/01itki60lchq81e5ed7h0twdv6c Go Links

TRICS MAIN MENU ▶ INITIAL PARAMETERS ▶ MAIN PARAMETERS ▶ SECONDARY PARAMETERS ▶ TRIP RATE Help Desk Log Out Off-Line Version - Click

Land Use 05 - HEALTH F - NURSING HOMES

Graph Rank Copy Data Print Selection Help Previous Screen

VEHICLES Estimate TRIP rates

TRIP RATE VALUE PER 1 RESIDE	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. Trip	Trip	No.	Ave.	Trip
00:00-01:00	1	19	0.000	1					
01:00-02:00	1	19	0.000	1					
02:00-03:00	1	19	0.000	1					
03:00-04:00	1	19	0.000	1					
04:00-05:00	1	19	0.000	1					
05:00-06:00	1	19	0.000	1					
06:00-07:00	1	19	0.105	1					
07:00-08:00	17	69	0.128	17					
08:00-09:00	17	69	0.056	17					
09:00-10:00	17	69	0.060	17					
10:00-11:00	17	69	0.070	17					
11:00-12:00	17	69	0.075	17	69	0.073	17	69	0.148
12:00-13:00	17	69	0.057	17	69	0.064	17	69	0.121
13:00-14:00	17	69	0.095	17	69	0.082	17	69	0.177
14:00-15:00	17	69	0.100	17	69	0.116	17	69	0.216
15:00-16:00	17	69	0.064	17	69	0.096	17	69	0.160
16:00-17:00	17	69	0.069	17	69	0.093	17	69	0.162
17:00-18:00	17	69	0.045	17	69	0.072	17	69	0.117
18:00-19:00	17	69	0.052	17	69	0.067	17	69	0.119
19:00-20:00	7	52	0.087	7	52	0.074	7	52	0.161
20:00-21:00	6	54	0.025	6	54	0.028	6	54	0.053

Rank Time Selection

Rank Start/End Time Selection Site-by-Site Peak Hour

Start Time 14:00

End Time 15:00

Busiest hour for each site used to calculate rank order

Select Select

Cancel Help

Weighting factors can affect trip rates. For further information please review section 13 of the following document.

Good Practice Guide

Done Local intranet 18

start TRICS MANAGER http://localhost:8000... Corel Photo House 20:59

TRICS – A User's Perspective

Lotus SmartSuite Internet Reminders Reference Suite Help Addresses

http://localhost:8000/EXEC/9/01itki60lcshq81e5ed7h0twdv6c - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Back Forward Stop Home Search Favorites Media

Address http://localhost:8000/EXEC/9/01itki60lcshq81e5ed7h0twdv6c Go Links

TRICS MAIN MENU ▶ INITIAL PARAMETERS ▶ MAIN PARAMETERS ▶ SECONDARY PARAMETERS ▶ TRIP RATE Help Desk Log Out Off-Line Version - Click

Land Use 05 - HEALTH F - NURSING HOMES

Graph Rank Copy Data Print Selection Help Previous Screen

VEHICLES Estimate TRIP rates

TRIP RATE VALUE PER 1 RESIDE	ARRIVALS			DEPARTURES			TOTALS		
	No. Days	Ave. RESIDE	Trip Rate	No. Days	Ave. Trip	Trip	No.	Ave.	Trip
00:00-01:00	1	19	0.000	1					
01:00-02:00	1	19	0.000	1					
02:00-03:00	1	19	0.000	1					
03:00-04:00	1	19	0.000	1					
04:00-05:00	1	19	0.000	1					
05:00-06:00	1	19	0.000	1					
06:00-07:00	1	19	0.105	1					
07:00-08:00	17	69	0.128	17					
08:00-09:00	17	69	0.056	17					
09:00-10:00	17	69	0.060	17					
10:00-11:00	17	69	0.070	17					
11:00-12:00	17	69	0.075	17	69	0.073	17	69	0.148
12:00-13:00	17	69	0.057	17	69	0.064	17	69	0.121
13:00-14:00	17	69	0.095	17	69	0.082	17	69	0.177
14:00-15:00	17	69	0.100	17	69	0.116	17	69	0.216
15:00-16:00	17	69	0.064	17	69	0.096	17	69	0.160
16:00-17:00	17	69	0.069	17	69	0.093	17	69	0.162
17:00-18:00	17	69	0.045	17	69	0.072	17	69	0.117
18:00-19:00	17	69	0.052	17	69	0.067	17	69	0.119
19:00-20:00	7	52	0.087	7	52	0.074	7	52	0.161
20:00-21:00	6	54	0.025	6	54	0.028	6	54	0.053

Rank Time Selection

Rank Start/End Time Selection Site-by-Site Peak Hour

Start Time 07:00

End Time 19:00

Busiest hour for each site used to calculate rank order

Select Select

Cancel Help

Weighting factors can affect trip rates. For further information please review section 13 of the following document.

Good Practice Guide

Done Local intranet 19

start TRICS MANAGER http://localhost:8000... Corel Photo House 21:02

TRICS – A User's Perspective

Lotus SmartSuite Internet Reminders Reference Suite Help Addresses

http://localhost:8000/EXEC/21/01itki60lchq81e5ed7h0twdv6c - Microsoft Internet Explorer

File Edit View Favorites Tools Help

Address http://localhost:8000/EXEC/21/01itki60lchq81e5ed7h0twdv6c

TRICS MAIN MENU ▶ INITIAL PARAMETERS ▶ MAIN PARAMETERS ▶ SECONDARY PARAMETERS ▶ TRIP RATE ▶ RANK Help Desk Log Out Off-Line Ver: ^

Land Use 05 - HEALTH F - NURSING HOMES

Graph Geographic Map Recalc Rank Copy Data Print Help Previous Screen Search

VEHICLES Expand Columns

Rank order for: **Number of residents**
 Calculated on: **TOTALS** Time range: **07:00-19:00**
 Total: **17** **85th Percentile = no. 4
 **15th Percentile = no. 14

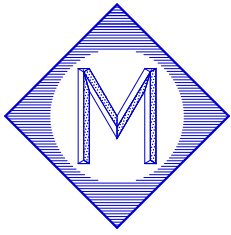
Note
WARNING: Using 85th and 15th percentile highlighted trip rates in data sets of under 20 surveys is not recommended by TRICS, and may be misleading.

Sorted by Trip Rate
 Arrivals
 Departures
 Totals

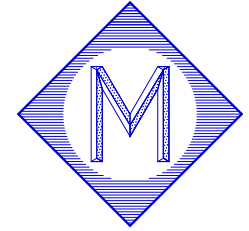
Rank	Site Ref	Description	Area	RESIDE	Day	Date	TRIP RATE			Travel Plan
							Arrivals	Departures	Totals	
1	NY-05-F-03	NURSING HOME, TADCA	NORTH	33	Tuesday	19/04/05	1.515	1.758	3.273	
2	WS-05-F-01	NURSING HOME, CHICHE	WEST SUSSEX	19	Thursday	13/12/01	1.526	1.632	3.158	
3	CF-05-F-01	NURSING HOME, CARDIF	CARDIFF	48	Wednesday	11/10/06	1.292	1.271	2.563	
4 **	ES-05-F-01	NURSING HOME, EASTB	EAST SUSSEX	54	Saturday	14/07/01	1.259	1.259	2.518	
5	TV-05-F-01	NURSING HOME, DARLI	TEES VALLEY	59	Monday	25/04/05	1.186	1.169	2.355	
6	NR-05-F-01	NURSING HOME, CORBY	NORTHAMPTONSH	55	Friday	21/11/08	1.073	1.073	2.146	
7	NY-05-F-01	NURSING HOME, RIPON	NORTH	38	Monday	22/09/08	0.974	0.921	1.895	
8	BD-05-F-01	NURSING HOME, DUNST	BEDFORDSHIRE	60	Monday	05/07/04	0.917	0.867	1.784	
9	CP-05-F-01	NURS./RES. HOMES, NR	CAERPHILLY	93	Friday	19/09/08	0.871	0.849	1.720	
10	HI-05-F-01	NURSING HOME, NAIRN	HIGHLAND	44	Tuesday	09/05/06	0.909	0.773	1.682	
11	HF-05-F-01	NURSING HOME, WATF	HERTFORDSHIRE	120	Wednesday	16/07/08	0.742	0.825	1.567	
12	GM-05-F-02	NURSING HOME, BOLTC	GREATER	180	Tuesday	22/06/04	0.767	0.711	1.478	
13	DC-05-F-02	NURSING HOME, BOURN	DORSET	43	Wednesday	16/07/08	0.767	0.674	1.441	
14 **	GM-05-F-01	NURSING HOME, MANCH	GREATER	110	Friday	18/06/04	0.691	0.664	1.355	
15	CH-05-F-01	NURSING HOME, NEAR	CHESHIRE	88	Friday	17/10/08	0.670	0.648	1.318	
16	TW-05-F-01	NURSING HOME, FELLIN	TYNE & WEAR	68	Wednesday	04/05/05	0.618	0.676	1.294	
17	AS-05-F-01	NURSING HOME, ABERD	ABERDEENSHIRE	53	Thursday	26/05/05	0.491	0.415	0.906	

Done Local intranet 20

start TRICS MANAGER http://localhost:8000... Corel Photo House 21:04

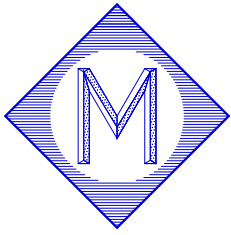


TRICS – A User's Perspective

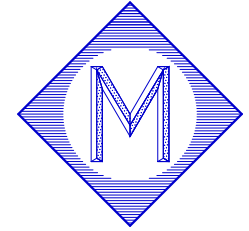


3. The first of the screen shots illustrates another point. The peak hour may be critical for most developments, but the **peak traffic from a nursing home is not at the network peak time.**

Check. Do not assume that all development types have similar generation characteristics.



TRICS – A User's Perspective



4. It is your system. As users, make sure it works for you.