



Seasonality Research

Final Report
October 2002

JMP
Consultants Ltd

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Executive Summary

The objective of the seasonality research is to assist TRICS practitioners in identifying typical profiles of vehicle trip making throughout the course of a year for different types of land use. The research illustrates how traffic activity varies for different land uses by time of day, day of week, and month of year.

During 2000, a total of 16 sites were identified for possible consideration, for which subsequently a full analysis was undertaken in 2001 for eight sites. The eight sites cover five of the 16 land use categories used as parameters within the TRICS database. These are Retail (3 sites), Employment (1 site), Health (1 site), Residential (2 sites) and Golf (1 site) land uses.

Automatic Traffic Counter (ATC) loops were positioned at the main vehicle entrance of the sites to identify all vehicle movements over 24 hour periods for 12 months. The ATC data was imported into site-specific spreadsheets and then processed into monthly averages by day of week and hourly period to produce various profiles. Hourly period, weekday (5 day) and weekly (7 day) monthly averages were produced. Bank holidays were excluded from analysis.

Boxplots illustrate the variation in peak-hour, 12-hour, and 24-hour traffic flow, by month of year and day of week for each site. Mean AM and PM peak-hour, 12-hour, and 24-hour traffic flows are tabulated, by month of year and day of week, for each site. The time at which the AM and PM peak-hour flows occurs are tabulated, by month of year and day of week, for each site. Graphs showing hourly flow by time of day for each site are included.

Guidance for surveys for each land use is given in the following four tables:

Table 1: Months with less than 5% variation in mean weekday 24-hour flow

Month	Land Use				
	Retail	Residential	Employment	Health	Golf
January			√	√	
February	√	√	√	√	
March	√	√	√	√	
April	√	√	√	√	
May	√	√	√	√	
June		√	√	√	
July	√	√	√	√	
August	√				
September	√	√			√
October	√	√	√	√	
November		√	√	√	
December		√		√	

Table 2: Days with less than 5% variation in mean 24-hour flow

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday	√	√	√	√	√
Tuesday	√	√	√	√	√
Wednesday	√	√	√	√	√
Thursday	√	√	√	√	
Friday		√			√
Saturday		√			
Sunday					

Table 3: Days with more than 10% variation in mean 24-hour flow

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday					
Tuesday					
Wednesday					
Thursday					
Friday	√				
Saturday	√		√	√	√
Sunday	√	√	√	√	√

Table 4: Peak 2-hour period by day of week and land use

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	12:00 - 14:00
Tuesday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	14:00 - 16:00
Wednesday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	12:00 - 14:00
Thursday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	13:00 - 15:00	12:00 - 14:00
Friday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	13:00 - 15:00	12:00 - 14:00
Saturday	16:00 - 18:00	11:00 - 13:00	07:00 - 09:00	13:00 - 15:00	11:00 - 13:00
Sunday	12:00 - 14:00	11:00 - 13:00	12:00 - 14:00	13:00 - 15:00	12:00 - 14:00

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Appendices

Appendix A: Analysis of 24-hour traffic flow

Figures A1 to A16 - boxplots by month and day of week
Tables A1 to A3 - weekday, Saturday, Sunday means by month
Table A4 - means by day of week

Appendix B: Analysis of 12-hour traffic flow

Figures B1 to B16 - boxplots by month and day of week
Tables B1 to B3 - weekday, Saturday, Sunday means by month
Table B4 - means by day of week

Appendix C: Analysis of AM peak-hour traffic flow

Figures C1 to C16 - boxplots by month and day of week
Tables C1 to C8 – occurrence of peak hour
Tables C9 to C11 - weekday, Saturday, Sunday means by month
Table C12 - means by day of week

Appendix D: Analysis of PM peak-hour traffic flow

Figures D1 to D16 - boxplots by month and day of week
Tables D1 to D8 – occurrence of peak hour
Tables D9 to D11 - weekday, Saturday, Sunday means by month
Table D12 - means by day of week

1 Introduction

Purpose

- 1.1 The objective of the seasonality research is to assist TRICS practitioners in identifying typical profiles of vehicle trip making throughout the course of a year for different types of land use. The research illustrates how traffic activity varies for different land uses by time of day, day of week, and month of year.
- 1.2 The research should help users establish any possible impact of changes in the operation of particular land uses, thus identifying the impact on retail of longer operating hours and Sunday opening on Leisure and Hospital land uses.
- 1.3 The outputs of the research is to be as follows:
 - ❖ Up to 4 weeks of level 1 data for each site, either as a selection of a typical week per quarter or an average week
 - ❖ A 'Seasonality Document' for user guidance (to be incorporated in library module of database) giving typical traffic flow profiles, data collection guidance and comments on the possible use of factors for particular land uses
 - ❖ Guidance on most appropriate times for travel surveys.

Background

- 1.4 During 2000, a total of 16 sites were identified for possible consideration, for which subsequently a full analysis was undertaken for eight sites in 2001. The eight sites cover five of the 16 land use categories used as parameters within the TRICS database which include Employment, Golf, Health, Residential and Retail uses.
- 1.5 Automatic Traffic Counter (ATC) loops were positioned at the main vehicle entrance of the sites to identify all vehicle movements over 24 hour periods for 12 months.
- 1.6 The ATC data was imported into site-specific spreadsheets and then processed into monthly averages by day of week and hourly period to produce various profiles. Hourly period, weekday (5 day) and weekly (7 day) monthly averages were produced. For the purposes of reporting, bank holidays are excluded from analysis.

Structure of the report

- 1.7 Section 2 describes each site in detail.
- 1.8 Section 3 reports on the analysis of the results. The analysis was undertaken by month and day of week for AM and PM peak-hour, 12-hour, and 24-hour traffic flows. Section 4 summarises the results by land use and gives guidance on surveys.
- 1.9 The tables and figures follow each section.

2 The Sites

Introduction

- 2.1 Table 2.1 shows the local authority and the land use category for each of the eight sites surveyed and Figure 2.1 shows the location of all the sites. Each site is described in more detail below.

Tesco Food Superstore, Bournemouth

- 2.2 The superstore is located on Riverside Avenue, which can be accessed primarily from the main road of Castle Lane East in Littledown, Bournemouth. The number of residential households¹ within five miles² of the site is 104,850 - the equivalent number within one mile is 8,122.
- 2.3 This site can be accessed by vehicles from the A338, which provides good communications with both the town centre and the trunk road network. There is good bus accessibility, with five different circulating routes all terminating at the town centre, twice hourly. Access to rail transport is not readily available. Other site details are shown in Table 2.2.
- 2.4 ATC data were not available for November 2000 due to severe flooding in the area.

Tesco Food Superstore, Poole

- 2.5 The retail superstore is located on Waterloo road, Fleetsbridge in Poole, southeast Dorset. The site has a large residential area to the west running along Porter Road. The number of residential households within five miles of the site is 110,447 - the equivalent number within one mile is 8,689.
- 2.6 The site's main frontage access is off Waterloo Road. The A35 also serves the majority of traffic entering this area, running from Bournemouth. There are two bus services which each run twice hourly from outside the food superstore, to and from Wimbourne. There is no rail accessibility within a 1-kilometre radius. Other site details are shown in Table 2.3.
- 2.7 ATC data were not available for November 2000 due to battery failure.

Asda, Gosport

- 2.8 The retail superstore is located on The Anchorage, Gosport. The number of residential households within five miles of the site is 135,722 - the equivalent number within one mile is 9,644.
- 2.9 Pedestrians access the site from Dock Road and The Anchorage, while the vehicular access is from Dock Road. No bus routes serve the supermarket directly, but the nearest scheduled services run along Stoke Road - approximately 400m from the supermarket entrance. Bus services run between Gosport / Alverstoke / Gosport (60 minute frequency), Gosport / Fareham (30 minute frequency), and Gosport / Southampton (60 minute frequency) Monday to Saturday daytime to 18:00.

¹ Derived from the Post Office Postcode Delivery Points database

² Crow-flies distance

- 2.10 The nearest railway station is situated in Portsmouth: Portsmouth Harbour Station. The cross-harbour ferry from Gosport is approximately 1.25km walk from the supermarket. The ferry landing stage at Portsmouth is adjacent to the railway station at Portsmouth Harbour. Other site details are shown in Table 2.4.

Southern Water Office, Worthing

- 2.11 The offices are located in Yeoman Rd, Durrington, slightly north-west of Worthing centre in West Sussex. The number of residential households within five miles of the site is 78,535 - the equivalent number within one mile is 9,372.
- 2.12 The site can be accessed by vehicles from the A27 and the A280, as well as regular bus services running from Brighton through Durrington and up to Arundel, and from Worthing to Durrington Circular. The site also has close rail accessibility with trains running hourly to surrounding towns such as Portsmouth and Littlehampton, and more frequently to London. Other site details are shown in Table 2.5.

Dorset County Hospital, Dorchester

- 2.13 This is a General Hospital with a Casualty Unit. The Hospital is located on Williams Avenue in the centre of Dorchester, Dorset. The number of residential households within five miles of the site is 16,003 - the equivalent number within one mile is 6,825.
- 2.14 The site's main frontage access is off Williams Avenue. The A35 runs adjacent to the hospital, vehicles can also access this site via A354 the A352 and the A37. There are two bus services and a Town Shuttle. The bus service from Weymouth runs 4 times a day, there is also bus service that runs six times a day in each direction to Sherbourne and Yeovil via surrounding villages. In addition there is the town shuttle, this runs four times an hour from Weymouth to Dorchester via the Hospital. There are two stations in the vicinity, Dorchester South Station and Dorchester West Station. Dorchester South Station has an hourly train, which runs from Weymouth to Waterloo. Dorchester West Station has seven trains a day that run from Weymouth to Bristol. Other site details are shown in Table 2.6.

Badger Farm Residential Estate

- 2.15 The site is located just outside the resident's parking zone of central Winchester. The site has two adjacent highways, Meadow Way and Ridgeway. The number of residential households within five miles of the site is 35,918 - the equivalent number within one mile is 5,258.
- 2.16 The site is adjacent to a Sainsbury's food store, and is accessed at two points from Meadow Way, and at three points from Ridgeway. The closest railway station lies between 1 and 2 kilometres from the estate. There is a bus service that runs frequently (every 15 minutes), to the city centre, in addition there are also hourly services to Southampton and Guildford. Other site details are shown in Table 2.7.

Bridport Golf Club

- 2.17 The 18 hole Golf Course is located in East Cliff, within the West Bay area of Bridport. The number of residential households within five miles of the site is 9,376 - the equivalent number within one mile is 966.
- 2.18 The site runs adjacent to the coastal area of Burton Beach. The site can be accessed by vehicles from the A3066 through Bridport, leading onto the B3157 (Burton Road). The nearest bus stops are in West Bay Town Centre, 450 metres from the site and at Marsh Barn Farm, 620 metres of the golf course entrance, buses do not run on a regular basis. Access to rail transport is not readily available. Other site details are shown in Table 2.8.
- 2.19 ATC data were not available between 20th April and 19th May 2000 due to problems with the equipment. Data was continued to be collected during the spring of 2001. In the analysis that follows April and May 2001 data were used to fill in the gap in the 2000 data.

Table 2.1 Seasonality research sites

Site	Location	Authority	Land Use
Tesco	Littledown	Bournemouth	A1 Food Retail
Tesco	Fleetsbridge	Poole	A1 Food Retail
Asda	Gosport	Hampshire	A1 Food Retail
Southern Water	Worthing	West Sussex	B1 Office
Dorset County Hospital	Dorchester	Dorset	C2 Hospital
Badger Farm (Ridgeway)	Winchester	Hampshire	C3 Residential
Badger Farm (Meadow Way)	Winchester	Hampshire	C3 Residential
Bridport Golf Club	Weymouth	Dorset	D2 Leisure

Table 2.2 Site details for Tesco Superstore, Bournemouth

Variable	Value
TRICS site code	DC-01-A-15
Site Name	Tesco, Bournemouth
Post Code	BH7 7DY
Site Area (hectares)	3.25
Gross Floor Area (m ²)	6,780
Retail Floor Area (m ²)	5,850
Car parking spaces	450
Petrol station?	√
Cash card facilities?	√

Table 2.3 Site details for Tesco Superstore, Poole

Variable	Value
TRICS site code	DC-01-A-16
Site Name	Tesco, Poole
Post Code	BH17 7EJ
Site Area (hectares)	3.42
Gross Floor Area (m ²)	5,574
Retail Floor Area (m ²)	3,740
Car parking spaces	616
Petrol station?	√
Cash card facilities?	√

Table 2.4 Site details for Asda, Gosport

Variable	Value
TRICS site code	Not on database
Site Name	Asda, Gosport
Post Code	PO12 1SH
Site Area (hectares)	24
Gross Floor Area (m ²)	4,877
Retail Floor Area (m ²)	-
Car parking spaces	349
Petrol station?	X
Cash card facilities?	√

Table 2.5 Site details for Southern Water Office

Variable	Value
TRICS site code	WS – 02 – A – 04
Site Name	Southern Water, Worthing
Post Code	BN13 3NX
Site Area (hectares)	2.6
Gross Floor Area (m ²)	6,502
Employees (FT)	562
Car parking spaces	226

Table 2.6 Site details for Dorset County Hospital

Variable	Value
TRICS site code	DC-05-A-05
Site Name	County Hospital, Dorchester
Post Code	DT1 2JY
Site Area (hectares)	6.8
Gross Floor Area (m ²)	40,546
Number of beds	448
Car parking spaces	729

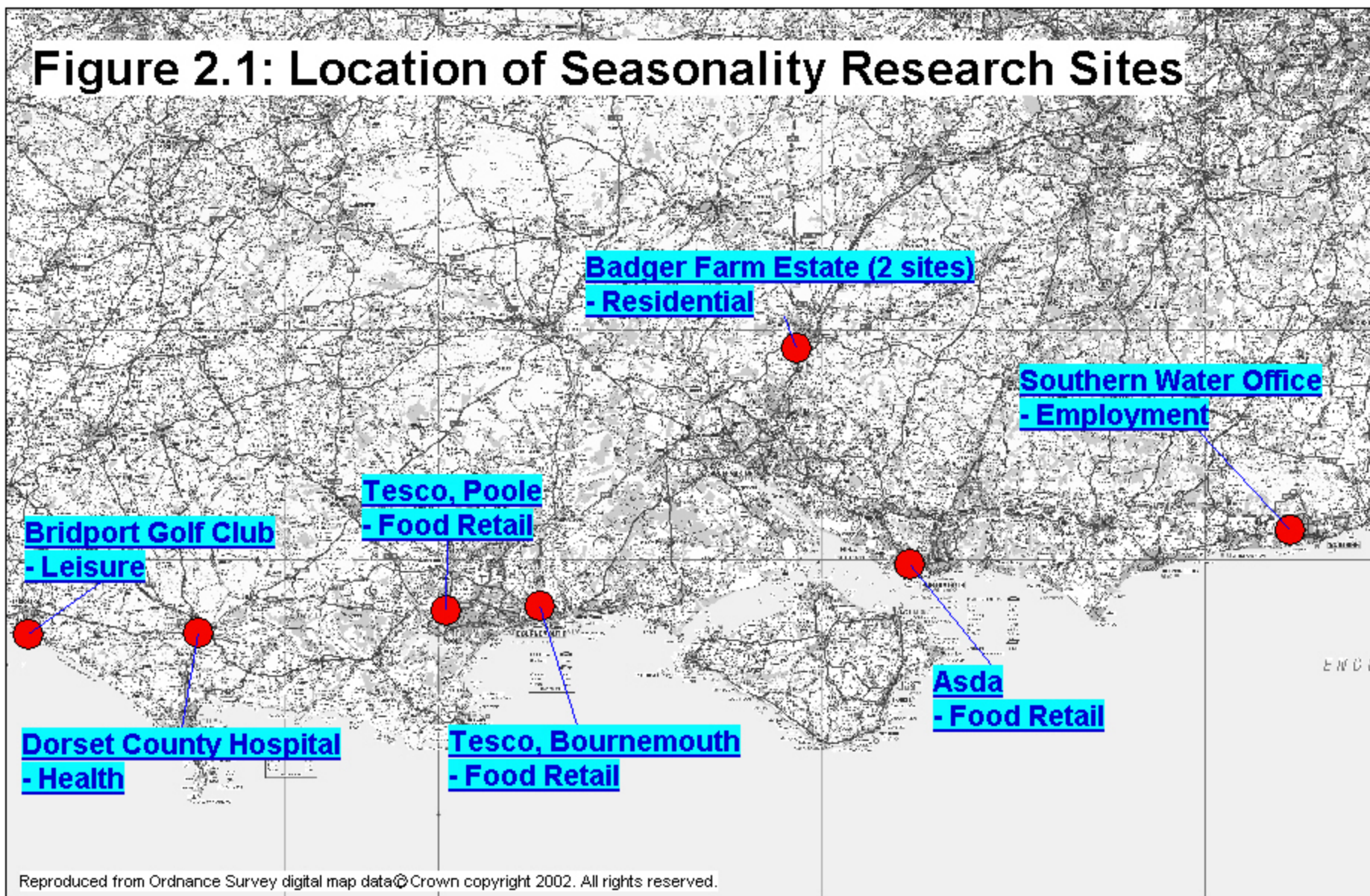
Table 2.7 Site details for Badger Farm Residential Estate

Variable	Value
TRICS site code	HC-03-K-11
Site Name	Ridgeway, Meadow Way
Post Code	SO22 4PX
Site Area (hectares)	45.0
Number of dwellings	1040
Car parking spaces	1 garage per dwelling
Residents	2415
Number of 2 bedroom bungalows	60
Number of 1-2 bedroom flats	54
Number of 2 bedroom terraced houses	362
Number of 3 bedroom semi-detached houses	158
Number of 4 or more detached houses	406

Table 2.8 Site details for Bridport Golf Club

Variable	Value
TRICS site code	DC – 09 – B – 03
Site Name	Golf Club, Bridport
Post Code	DT6 4EP
Site Area (hectares)	50
Number of holes	18
Car parking spaces	100

Figure 2.1: Location of Seasonality Research Sites



3 Results

Methodology

- 3.1 The ATC data was checked for accuracy and completeness. For the purposes of reporting, processed data excludes bank holidays.
- 3.2 For each 24-hour period, the AM and PM peak hour flows and the times at which the peaks occurred were determined.
- 3.3 Clean data were then processed into monthly averages by day of week and hourly period. Sites have traffic recorded by weekday, 5-day and 7-day average by time period for each of 12 months. The daily traffic flows are summed in two ways:
- ❖ 12 hour flow (07:00 – 19:00)
 - ❖ 24 hour flow (00:00 – 24:00)
- 3.4 The first step in analysis was to view the data. A convenient method of doing this is to use box-and-whisker plots. This enables a quick comparison of results by, for example, day of week.
- 3.5 Figure 3.1 is an annotated sketch of a box-and-whisker plot (also known as a boxplot), to aid understanding. The horizontal line in the box marks the median (the 50th percentile) of the sample. The edges of the box, called hinges, mark the 25th and 75th percentiles. The length of the box is called the hspread and corresponds to the interquartile range. If the median line falls towards the bottom of its box, it indicates that the distribution is right-skewed, while if the median is centred, it shows the distribution is symmetric. The whiskers (vertical lines extending up and down from each box) show the range of values that fall within 1.5 hspreads of the hinges. Cases that have values more than 3 hspreads below the lower hinge or above the upper hinge are marked by an asterisk (*) and are called extreme values, while cases that values between 1.5 and 3 hspreads outside the hinges are marked by an open circle (o) and are called outliers.

24-hour traffic flow

- 3.6 Boxplots of the 24-hour traffic flow for each site, as a function of month of the year and day of the week, are presented in Appendix A (Figures A1 to A16).
- 3.7 The mean 24-hour traffic flow is tabulated in Appendix A for each site, by month (Tables A1 to A3). The percentage variation about the annual average is also noted. The analysis was carried out separately for weekday (i.e. combining Monday through Friday), Saturday and Sunday. The minimum and maximum variation for weekday flow are shown in Table 3.1.
- 3.8 The mean 24-hour traffic flow is also tabulated in Appendix A for each site, by day of the week (Table A4). The percentage variation about the annual weekday average is also noted. The minimum and maximum variation are shown in Table 3.2, with Saturday and Sunday means for comparison.

- 3.9 Figures 3.2 and 3.3 illustrate the monthly and daily variation in 24-hour traffic flow.

12-hour traffic flow

- 3.10 Boxplots of the 12-hour traffic flow for each site, as a function of month of the year and day of the week, are presented in Appendix B (Figures B1 to B16).
- 3.11 The mean 12-hour traffic flow is tabulated in Appendix B for each site, by month (Tables B1 to B3). The percentage variation about the annual average is also noted. The analysis was carried out separately for weekday (i.e. combining Monday through Friday), Saturday and Sunday. The minimum and maximum variation for weekday flow are shown in Table 3.3.
- 3.12 The mean 12-hour traffic flow is also tabulated in Appendix B for each site, by day of the week (Table B4). The percentage variation about the annual weekday average is also noted. The minimum and maximum variation are shown in Table 3.4, with Saturday and Sunday means for comparison.
- 3.13 Figures 3.4 and 3.5 illustrate the monthly and daily variation in 12-hour traffic flow.

AM peak-hour traffic flow

- 3.14 Boxplots of the AM peak-hour traffic flow for each site, as a function of month of the year and day of the week, are presented in Appendix C (Figures C1 to C16).
- 3.15 The time in the day at which the AM peak traffic flow occurs is tabulated in Appendix C for each site (Tables C1 to C8).
- 3.16 The mean AM peak-hour traffic flow is tabulated in Appendix C for each site, by month (Tables C9 to C11). The percentage variation about the annual average is also noted. The analysis was carried out separately for weekday (i.e. combining Monday through Friday), Saturday and Sunday. The minimum and maximum variation for weekday flow are shown in Table 3.5.
- 3.17 The mean AM peak-hour traffic flow is also tabulated in Appendix C for each site, by day of the week (Table C12). The percentage variation about the annual weekday average is also noted. The minimum and maximum variation are shown in Table 3.6, with Saturday and Sunday means for comparison.
- 3.18 Figures 3.6 and 3.7 illustrate the monthly and daily variation in AM peak-hour flow.

PM peak-hour traffic flow

- 3.19 Boxplots of the PM peak-hour traffic flow for each site, as a function of month of the year and day of the week, are presented in Appendix D (Figures D1 to D16).

- 3.20 The time in the day at which the PM peak traffic flow occurs is tabulated in Appendix D for each site (Tables D1 to D8).
- 3.21 The mean PM peak-hour traffic flow is tabulated in Appendix D for each site, by month (Tables D9 to D11). The percentage variation about the annual average is also noted. The analysis was carried out separately for weekday (i.e. combining Monday through Friday), Saturday and Sunday. The minimum and maximum variation for weekday flow are shown in Table 3.7.
- 3.22 The mean AM peak-hour traffic flow is also tabulated in Appendix D for each site, by day of the week (Table D12). The percentage variation about the annual weekday average is also noted. The minimum and maximum variation are shown in Table 3.8, with Saturday and Sunday means for comparison.
- 3.23 Figures 3.8 and 3.9 illustrate the monthly and daily variation in PM peak-hour flow.

Hourly traffic flow

- 3.24 Figures 3.10 to 3.17 illustrate the variation in average hourly flows by day of the week for each of the eight sites. For this purpose flows have been averaged across all months for which data is available and typically represents annual averages.

Table 3.1 Monthly Variation in Weekday 24-hour Traffic Flow

Site	Weekday 24-hour Traffic Flow				
	Mean	Minimum		Maximum	
		Month	Variation	Month	Variation
Tesco, Bournemouth	12,675	10	-7.0%	12	11.0%
Tesco, Poole	15,917	1	-9.1%	7	5.1%
Asda, Gosport	4,959	1	-7.5%	12	15.1%
Southern Water	1,296	9	-6.5%	12	6.9%
Dorset County Hospital	4,481	8	-7.5%	11	4.9%
Badger Farm (Ridge Way)	1,767	8	-8.9%	10	4.4%
Badger Farm (Meadow Way)	3,826	8	-6.9%	6	3.2%
Bridport Golf Club	211	12	-37.2%	7	49.7%

Table 3.2 Daily Variation in 24-hour Traffic Flow

Site	24-hour Traffic Flow						
	Weekday Mean	Minimum		Maximum		Saturday Mean	Sunday Mean
		Day	Variation	Day	Variation		
Tesco, Bournemouth	12,675	2	-4.6%	5	11.3%	14,321	9,517
Tesco, Poole	15,917	3	-4.6%	5	10.9%	17,667	11,267
Asda, Gosport	4,959	1	-9.4%	5	19.3%	6,020	4,041
Southern Water	1,296	5	-6.5%	2	2.2%	202	77
Dorset County Hospital	4,481	5	-5.8%	1	4.6%	2,453	2,044
Badger Farm (Ridge Way)	1,767	1	-1.4%	5	2.0%	1,688	1,467
Badger Farm (Meadow Way)	3,826	1	-2.3%	5	4.6%	3,852	3,123
Bridport Golf Club	211	5	-3.6%	4	8.7%	254	250

Table 3.3 Monthly Variation in Weekday 12-hour Traffic Flow

Site	Weekday 12-hour Traffic Flow				
	Mean	Minimum		Maximum	
		Month	Variation	Month	Variation
Tesco, Bournemouth	9,661	3	-7.3%	12	11.8%
Tesco, Poole	11,798	1	-10.3%	8	8.2%
Asda, Gosport	4,300	9	-8.2%	12	9.8%
Southern Water	1,203	9	-7.1%	12	6.4%
Dorset County Hospital	3,879	8	-7.8%	11	5.8%
Badger Farm (Ridge Way)	1,300	8	-10.2%	3	4.0%
Badger Farm (Meadow Way)	2,974	8	-7.4%	11	2.5%
Bridport Golf Club	190	12	-36.6%	8	42.3%

Table 3.4 Daily Variation in 12-hour Traffic Flow

Site	12-hour Traffic Flow						
	Weekday Mean	Minimum		Maximum		Saturday Mean	Sunday Mean
		Day	Variation	Day	Variation		
Tesco, Bournemouth	9,661	2	-5.1%	5	12.4%	11,829	8,800
Tesco, Poole	11,798	3	-5.0%	5	11.9%	14,091	10,276
Asda, Gosport	4,300	1	-9.0%	5	18.9%	5,622	3,975
Southern Water	1,203	5	-6.4%	1	2.3%	167	51
Dorset County Hospital	3,879	5	-6.1%	1	5.4%	1,968	1,598
Badger Farm (Ridge Way)	1,300	3	-1.8%	5	1.7%	1,273	1,099
Badger Farm (Meadow Way)	2,974	2	-1.7%	5	4.9%	3,132	2,525
Bridport Golf Club	190	5	-5.0%	4	8.6%	231	230

Table 3.5 Monthly Variation in Weekday AM Peak-hour Traffic Flow

Site	Weekday AM Peak-hour Traffic Flow				
	Mean	Minimum		Maximum	
		Month	Variation	Month	Variation
Tesco, Bournemouth	940	3	-8.1%	12	14.6%
Tesco, Poole	1,075	1	-12.6%	8	10.9%
Asda, Gosport	443	9	-8.9%	12	14.2%
Southern Water	211	5	-4.0%	2	5.0%
Dorset County Hospital	359	8	-9.6%	11	9.7%
Badger Farm (Ridge Way)	141	8	-20.4%	11	12.1%
Badger Farm (Meadow Way)	339	8	-10.9%	1	6.7%
Bridport Golf Club	23	12	-29.3%	8	33.9%

Table 3.6 Daily Variation in AM Peak-hour Traffic Flow

Site	AM Peak-hour Traffic Flow						
	Weekday Mean	Minimum		Maximum		Saturday Mean	Sunday Mean
		Day	Variation	Day	Variation		
Tesco, Bournemouth	940	2	-4.5%	5	11.3%	1,163	1,240
Tesco, Poole	1,075	3	-5.6%	5	10.4%	1,351	1,397
Asda, Gosport	443	1	-6.7%	5	12.4%	597	688
Southern Water	211	5	-4.2%	4	2.9%	43	16
Dorset County Hospital	359	4	-3.3%	1	4.4%	191	142
Badger Farm (Ridge Way)	141	5	-2.6%	2	1.2%	131	111
Badger Farm (Meadow Way)	339	4	-1.1%	2	1.2%	324	282
Bridport Golf Club	23	5	-10.6%	4	21.2%	27	36

Table 3.7 Monthly Variation in Weekday PM Peak-hour Traffic Flow

Site	Weekday PM Peak-hour Traffic Flow				
	Mean	Minimum		Maximum	
		Month	Variation	Month	Variation
Tesco, Bournemouth	1,046	9	-6.1%	12	9.7%
Tesco, Poole	1,317	1	-4.2%	4	3.4%
Asda, Gosport	453	9	-10.3%	12	15.2%
Southern Water	175	9	-6.5%	12	13.5%
Dorset County Hospital	428	8	-7.3%	4	5.5%
Badger Farm (Ridge Way)	172	8	-10.8%	10	25.1%
Badger Farm (Meadow Way)	396	8	-9.2%	6	4.3%
Bridport Golf Club	32	2	-27.5%	8	30.5%

Table 3.8 Daily Variation in PM Peak-hour Traffic Flow

Site	PM Peak-hour Traffic Flow						
	Weekday Mean	Minimum		Maximum		Saturday Mean	Sunday Mean
		Day	Variation	Day	Variation		
Tesco, Bournemouth	1,046	2	-6.2%	5	9.4%	1,249	1,327
Tesco, Poole	1,317	2	-4.6%	5	7.6%	1,517	1,569
Asda, Gosport	453	2	-8.5%	5	18.8%	595	636
Southern Water	175	5	-16.8%	3	5.3%	38	13
Dorset County Hospital	428	5	-12.5%	2	7.5%	247	210
Badger Farm (Ridge Way)	172	5	-3.0%	2	2.4%	139	129
Badger Farm (Meadow Way)	396	2	-2.0%	4	1.0%	327	310
Bridport Golf Club	32	1	-12.9%	4	38.1%	37	40

Figure 3.1 Annotated box plot

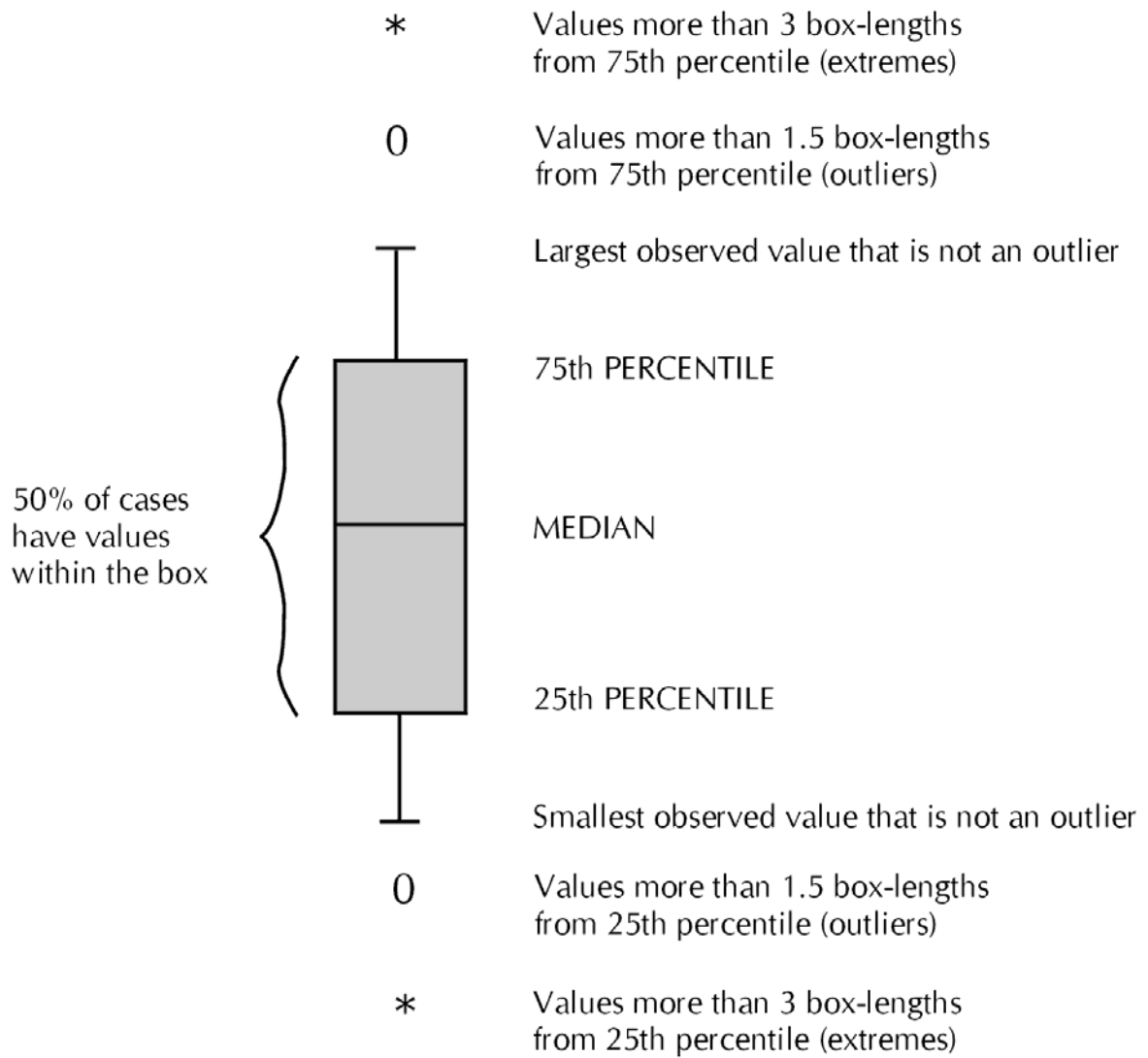


Figure 3.2 Monthly Variation in Weekday 24-hour Traffic Flow

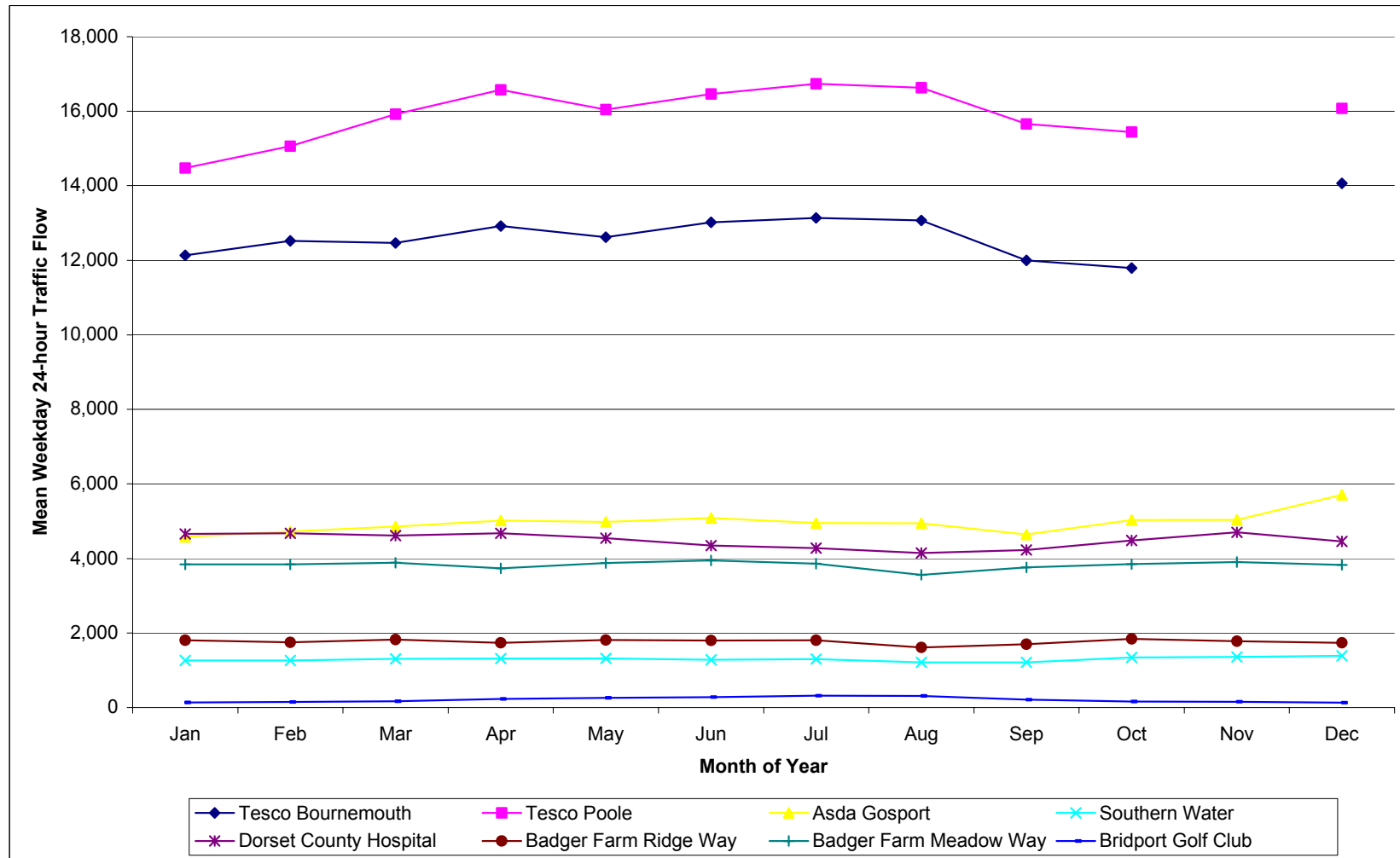


Figure 3.3 Day of Week Variation in 24-hour Traffic Flow

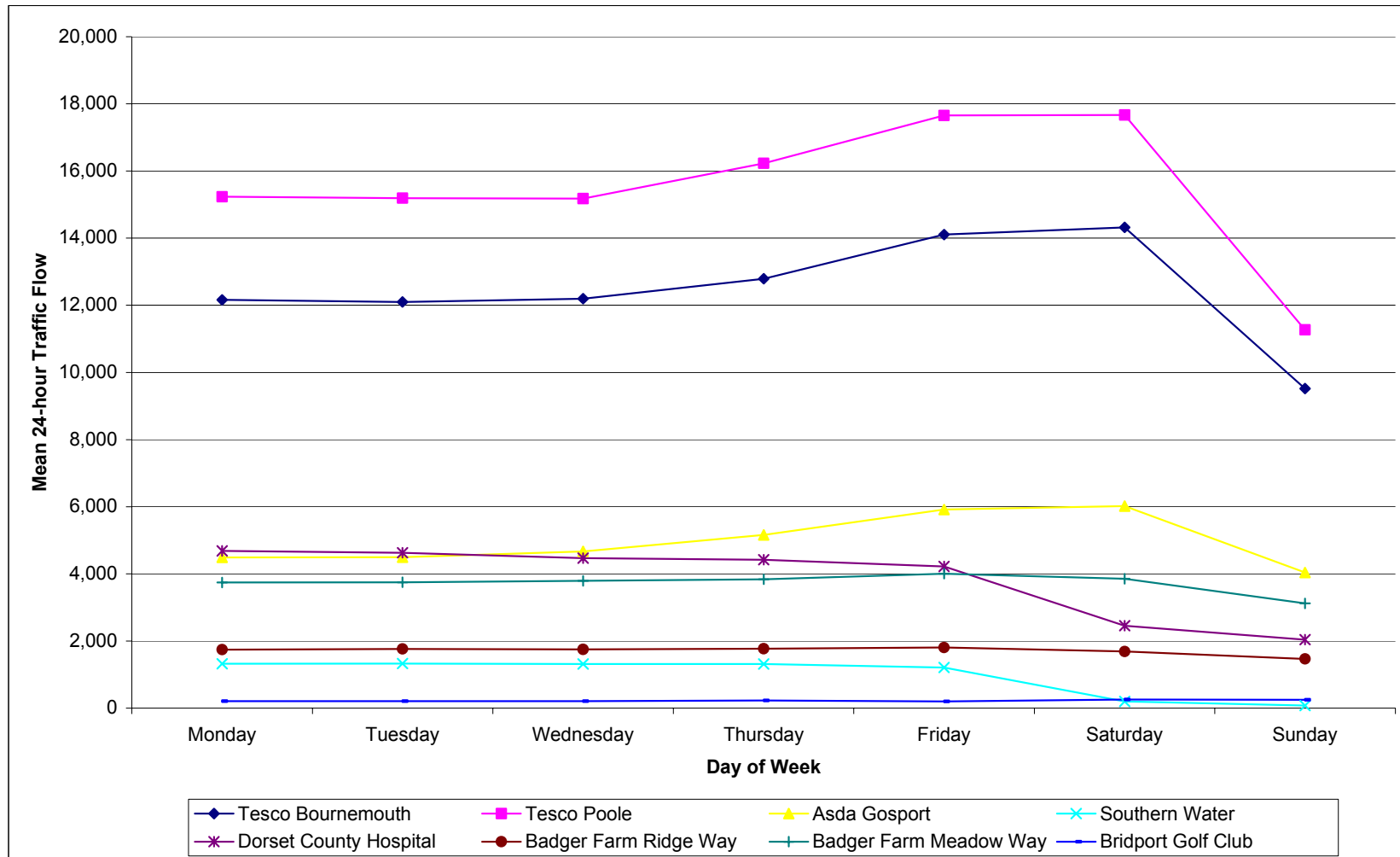


Figure 3.4 Monthly Variation in Weekday 12-hour Traffic Flow

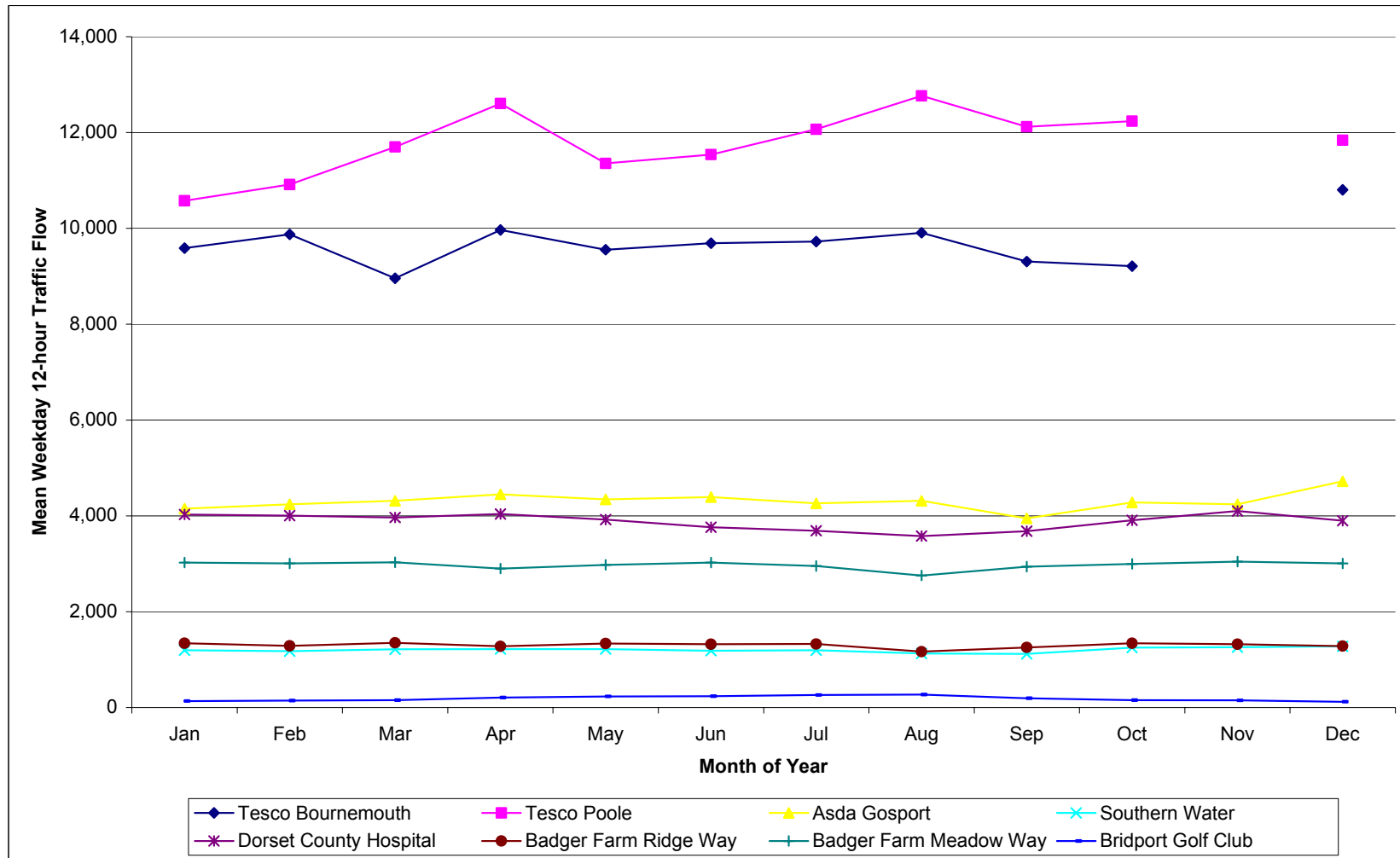


Figure 3.5 Day of Week Variation in 12-hour Traffic Flow

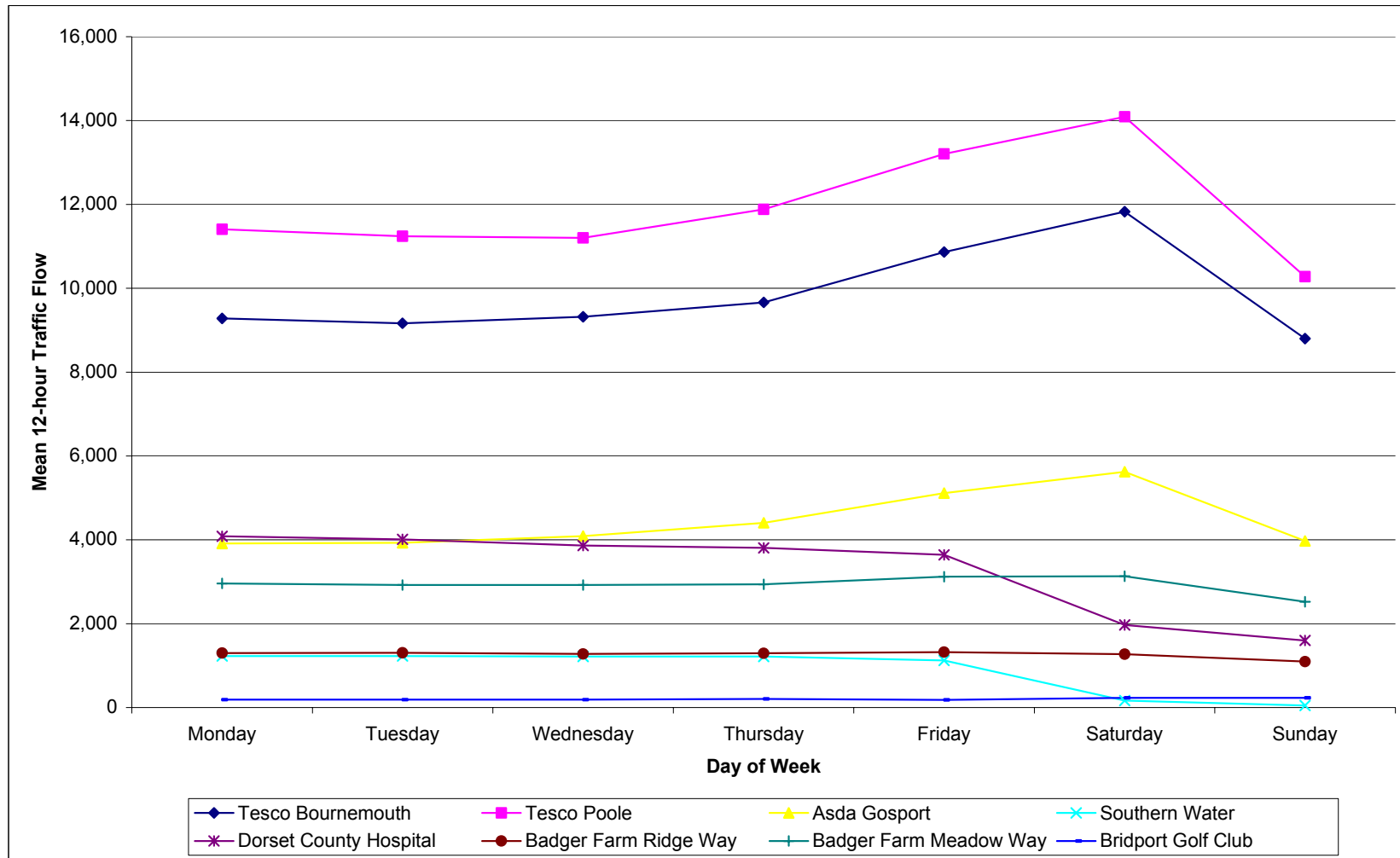


Figure 3.6 Monthly Variation in Weekday AM Peak-hour Traffic Flow

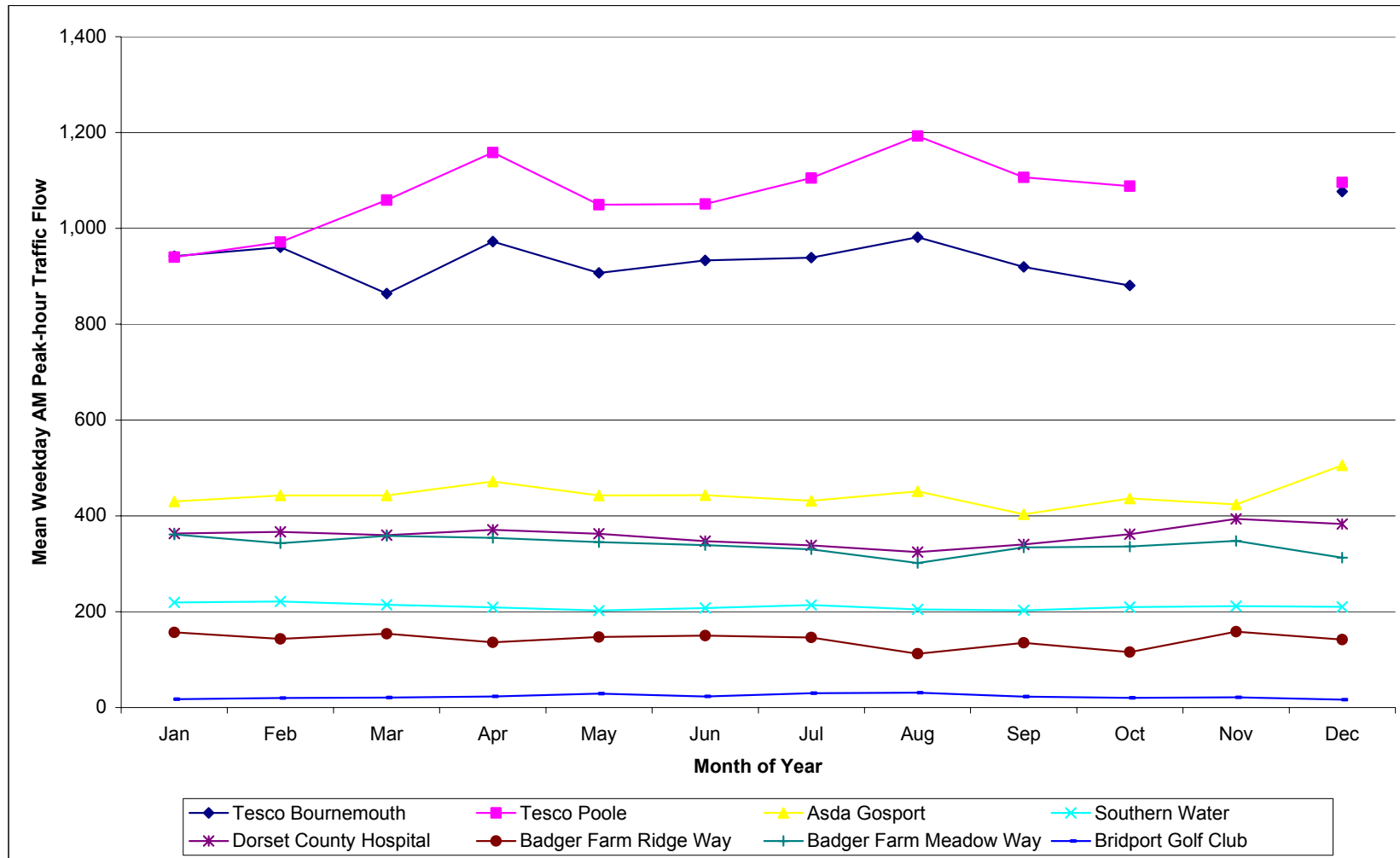


Figure 3.7 Daily Variation in Am Peak-hour Traffic Flow

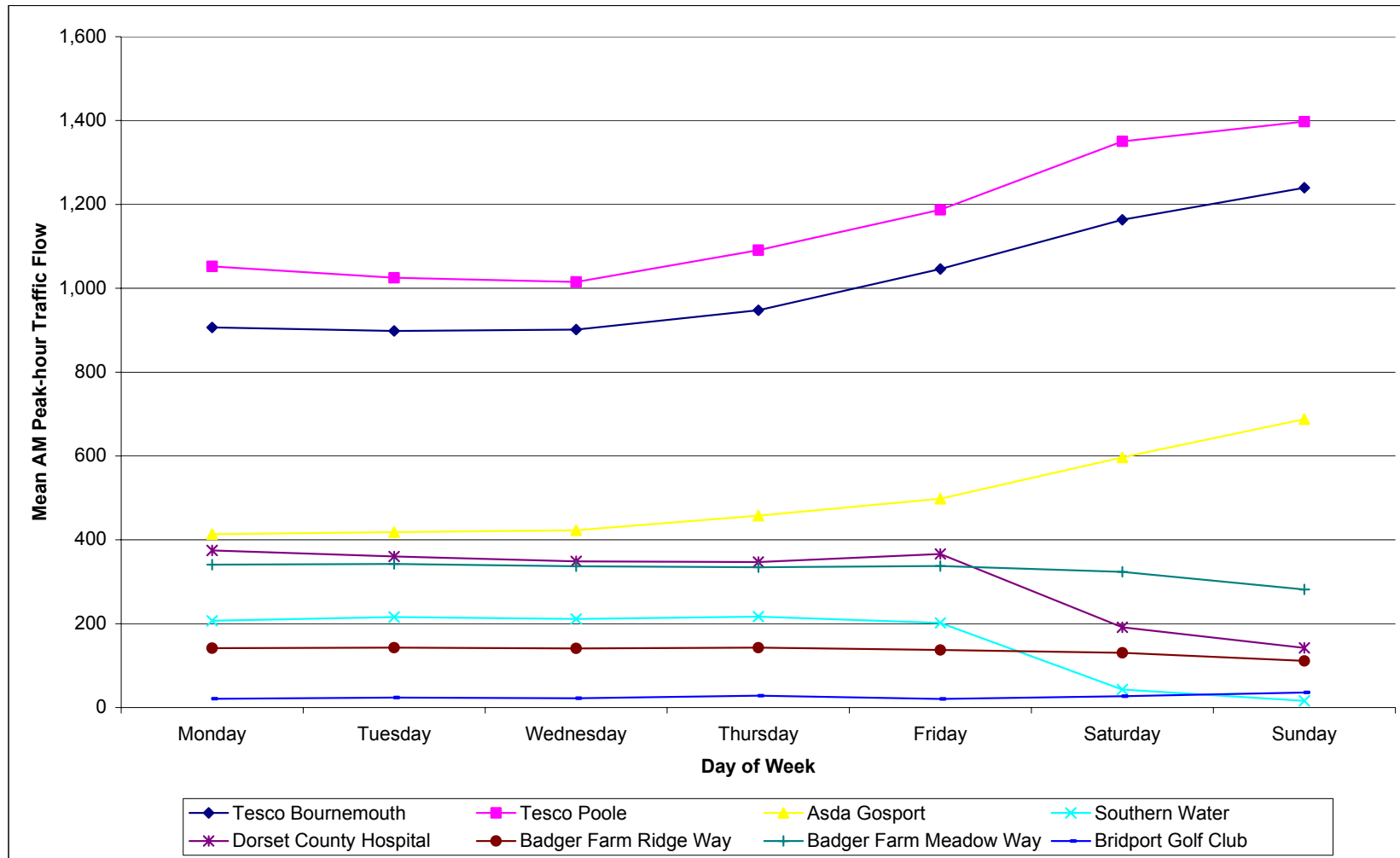


Figure 3.8 Monthly Variation in Weekday PM Peak-hour Traffic Flow

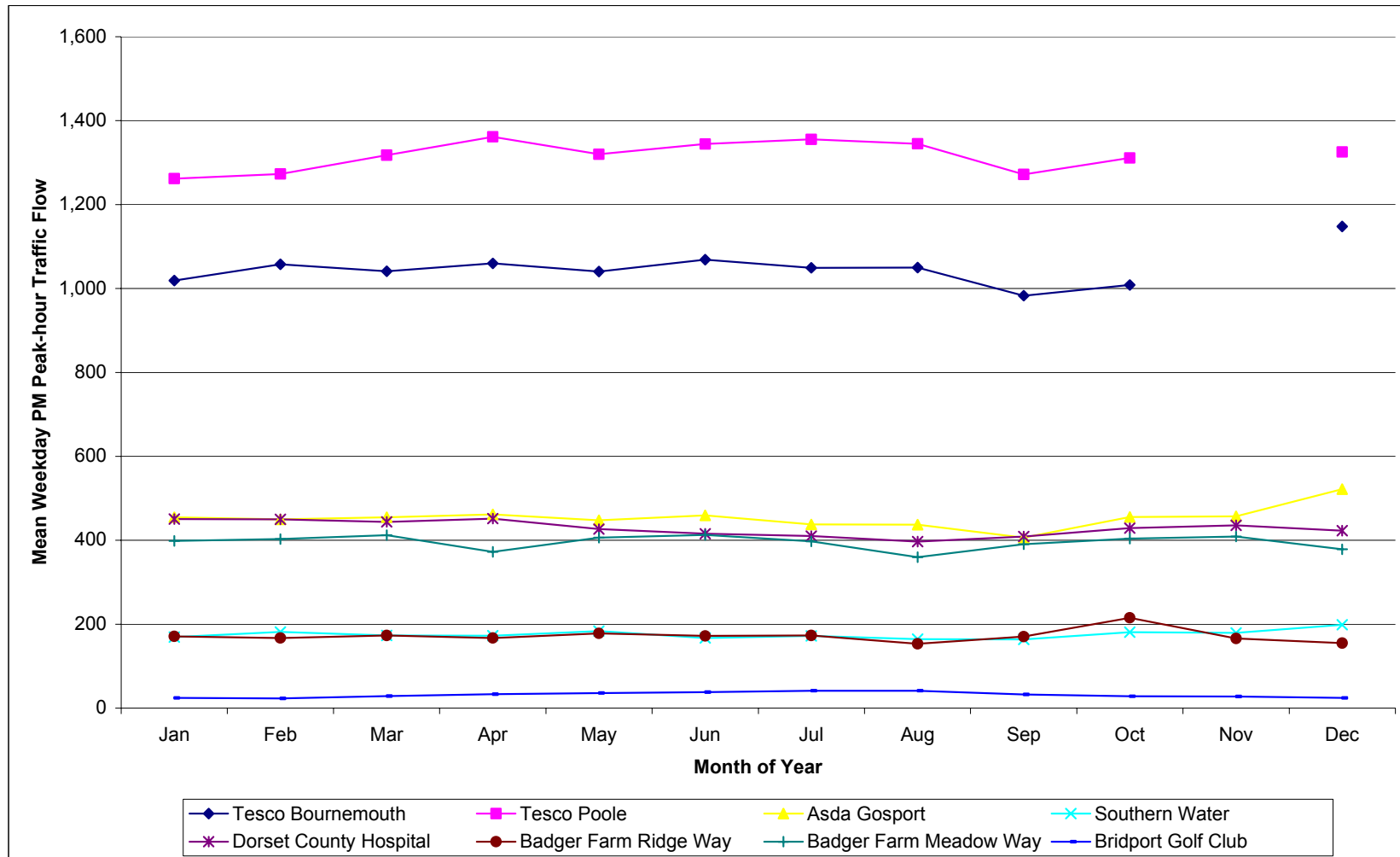


Figure 3.9 Daily Variation in PM Peak-hour Traffic Flow

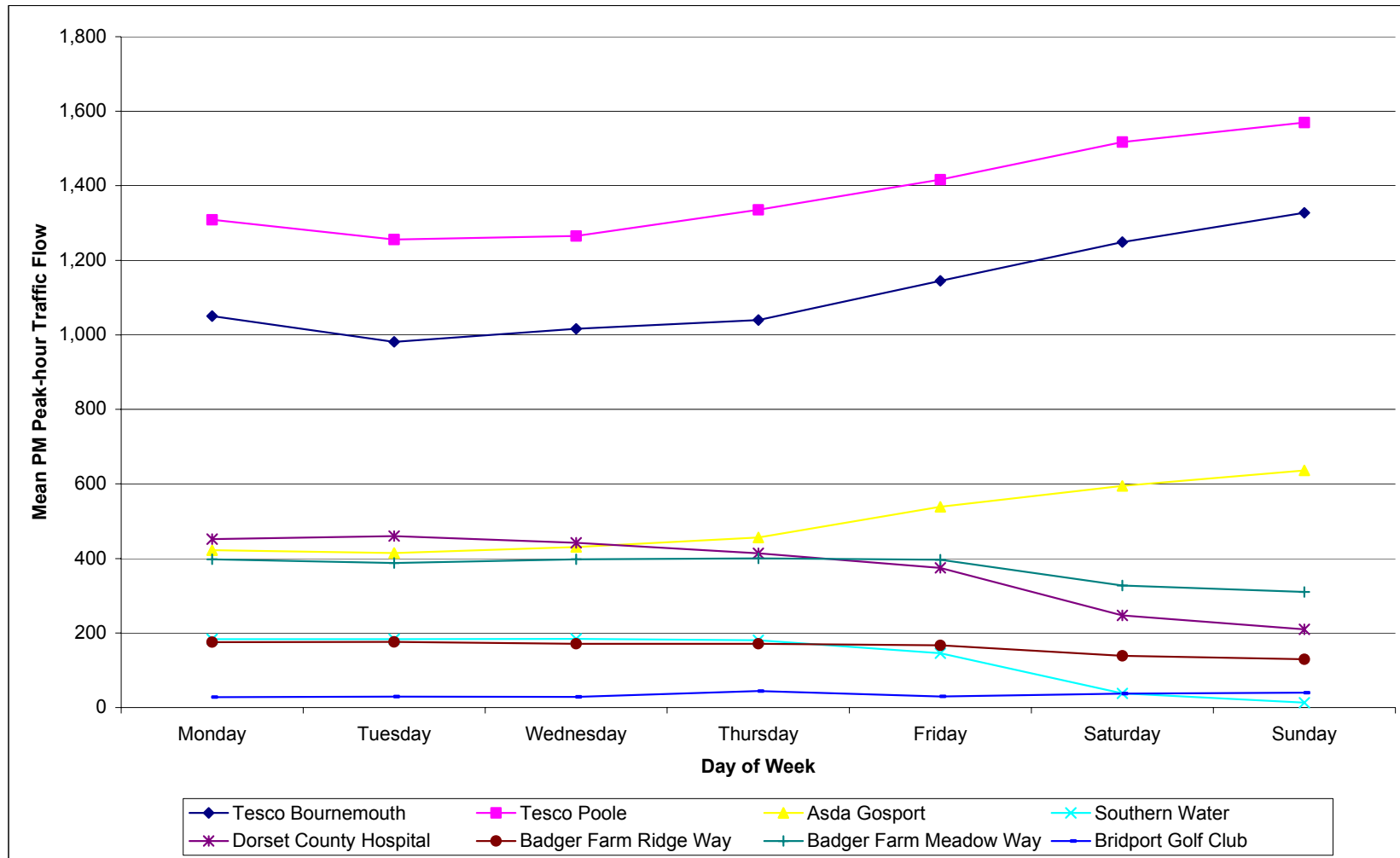


Figure 3.10 Hourly Flow by Time of Day for Tesco Bournemouth

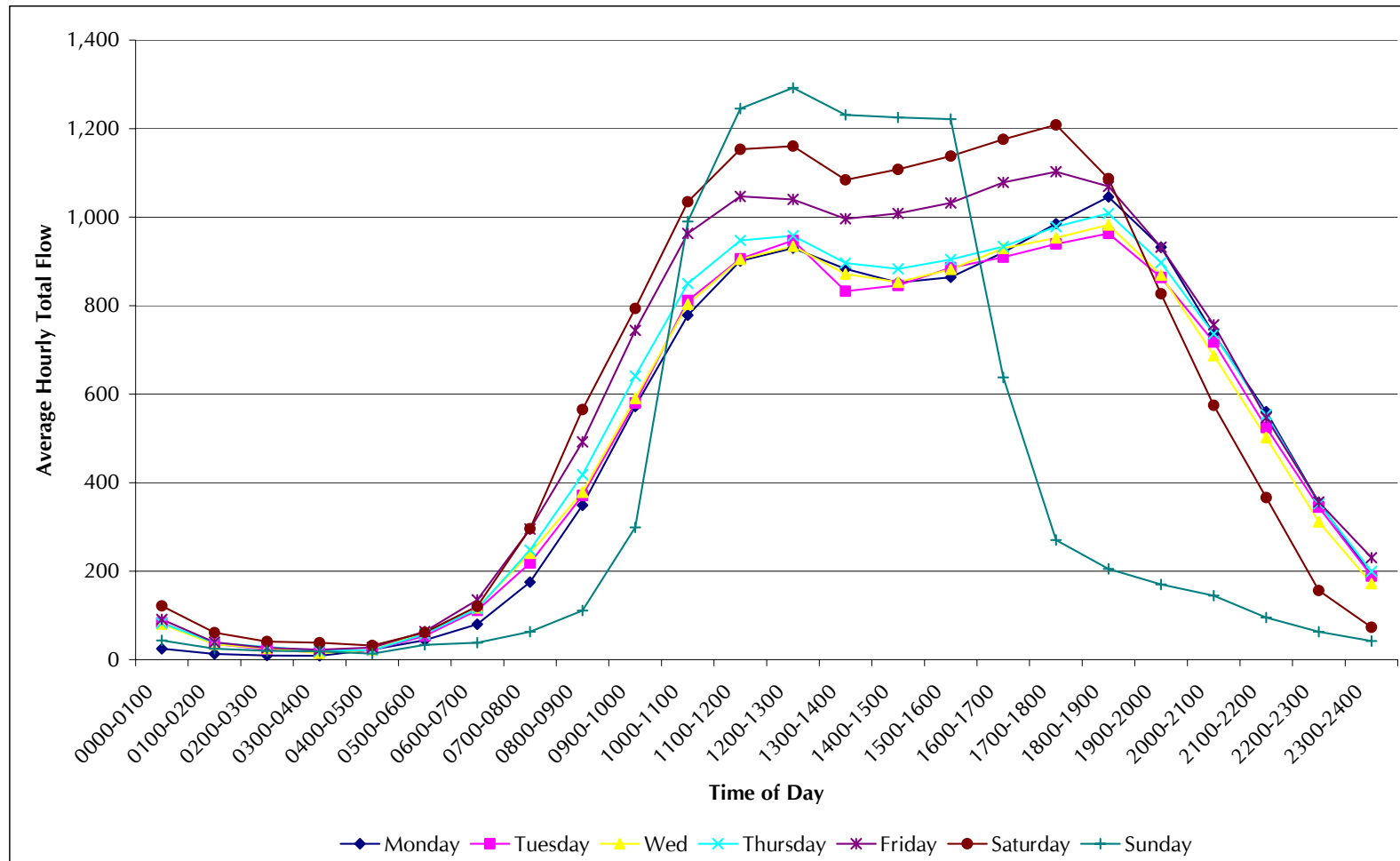


Figure 3.11 Hourly Flow by Time of Day for Tesco Poole

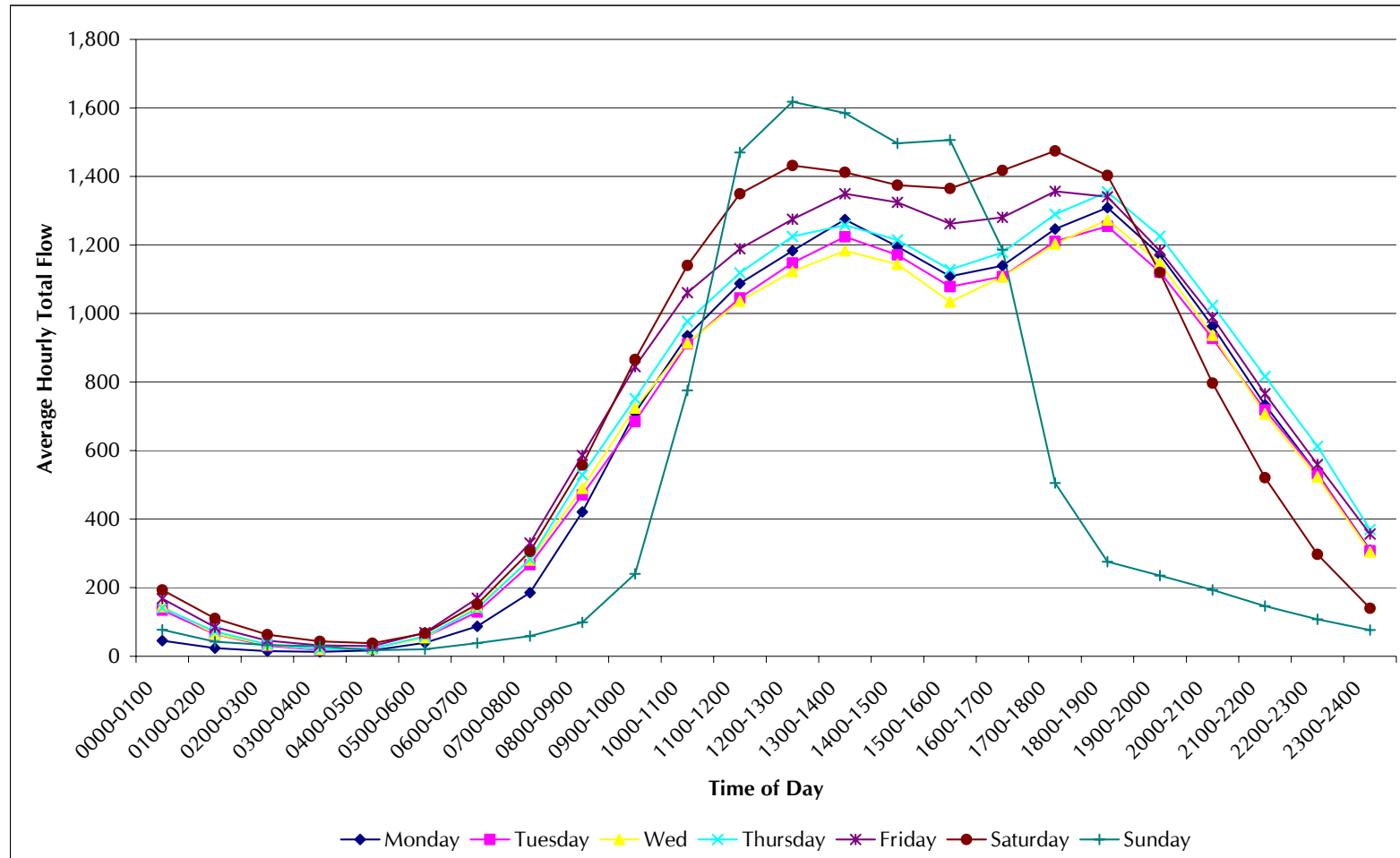


Figure 3.12 Hourly Flow by Time of Day for Asda Gosport

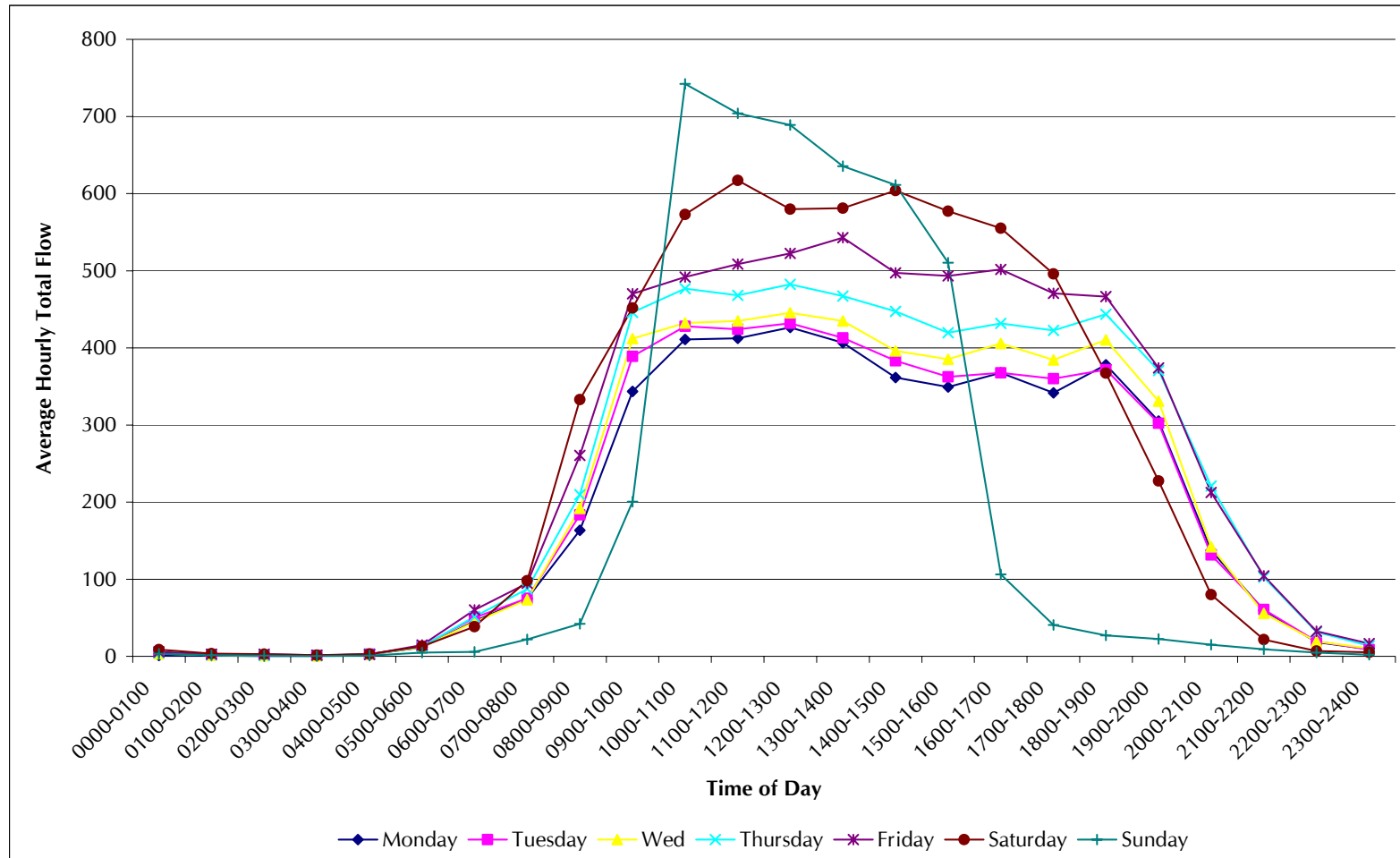


Figure 3.13 Hourly Flow by Time of Day for Southern Water

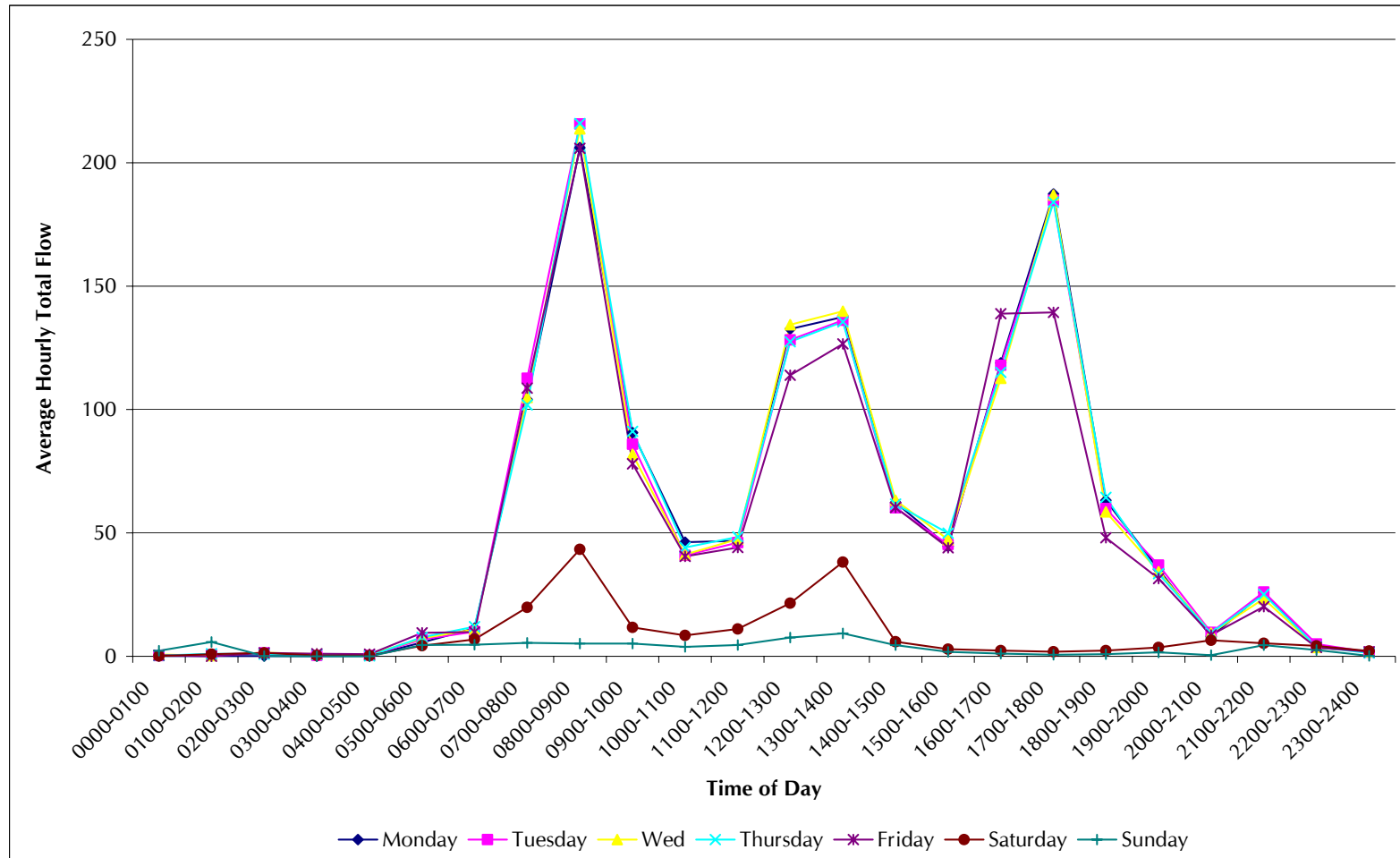


Figure 3.14 Hourly Flow by Time of Day for Dorset County Hospital

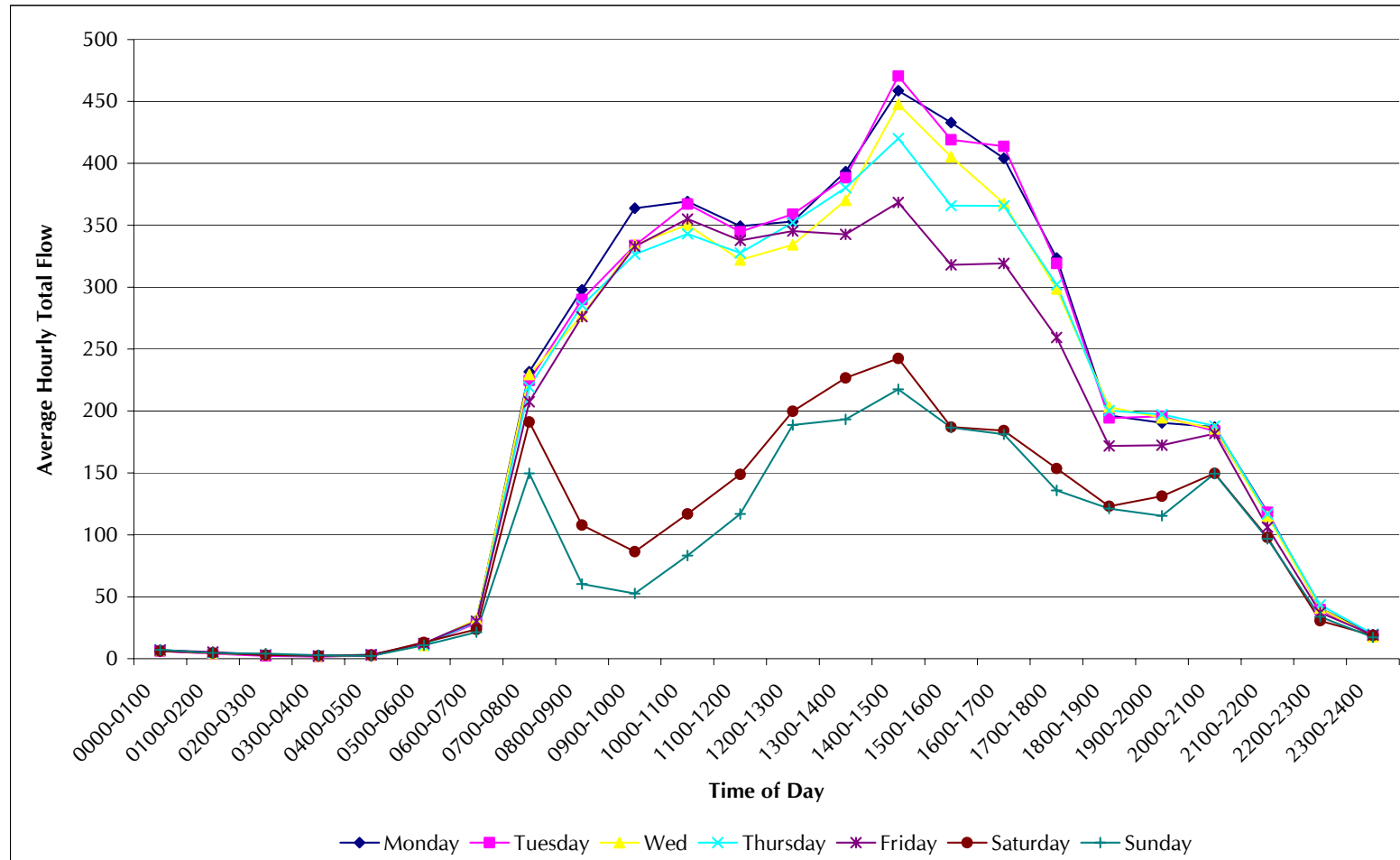


Figure 3.15 Hourly Flow by Time of Day for Badger Farm Ridge Way

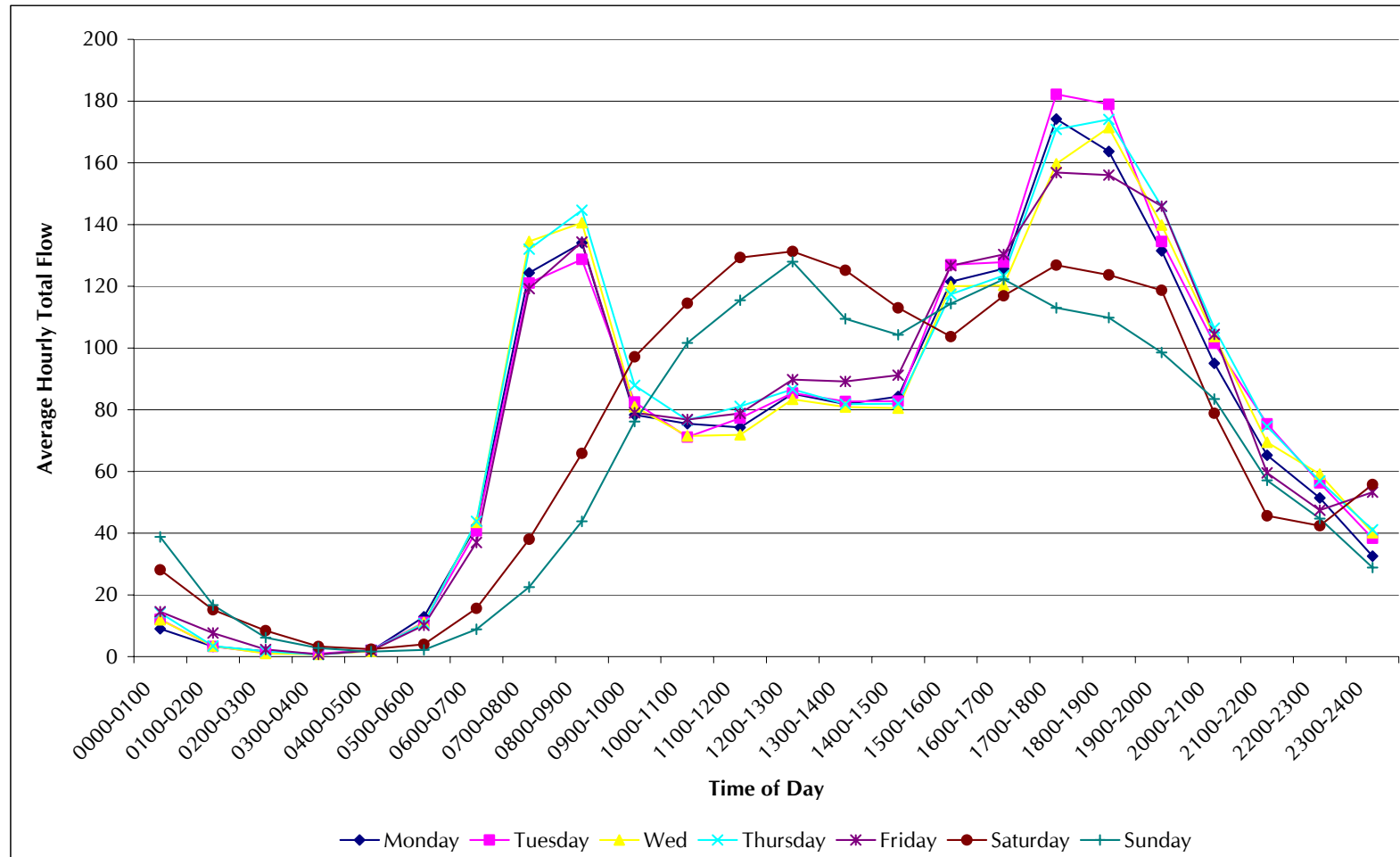


Figure 3.16 Hourly Flow by Time of Day for Badger Farm Meadow Way

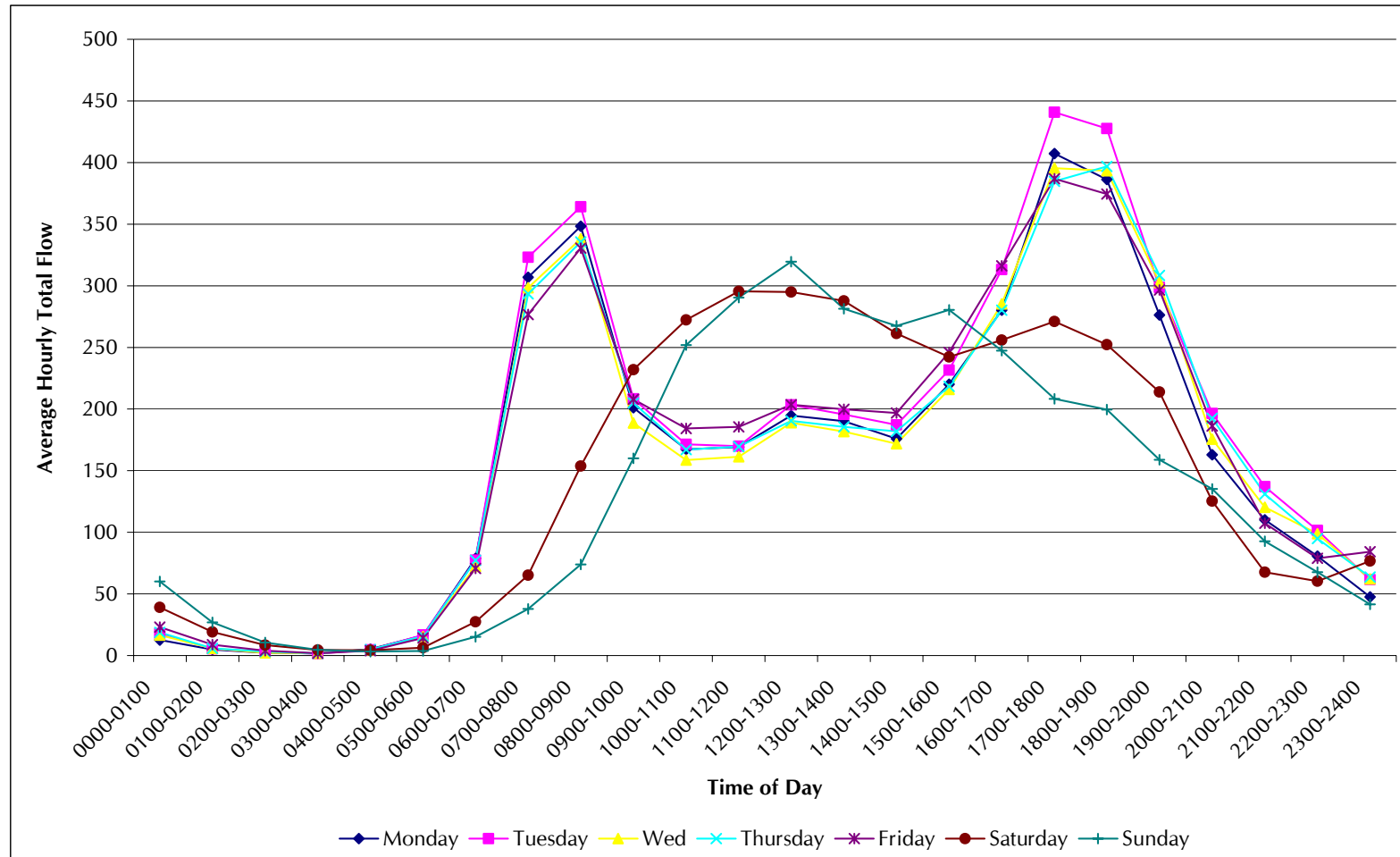
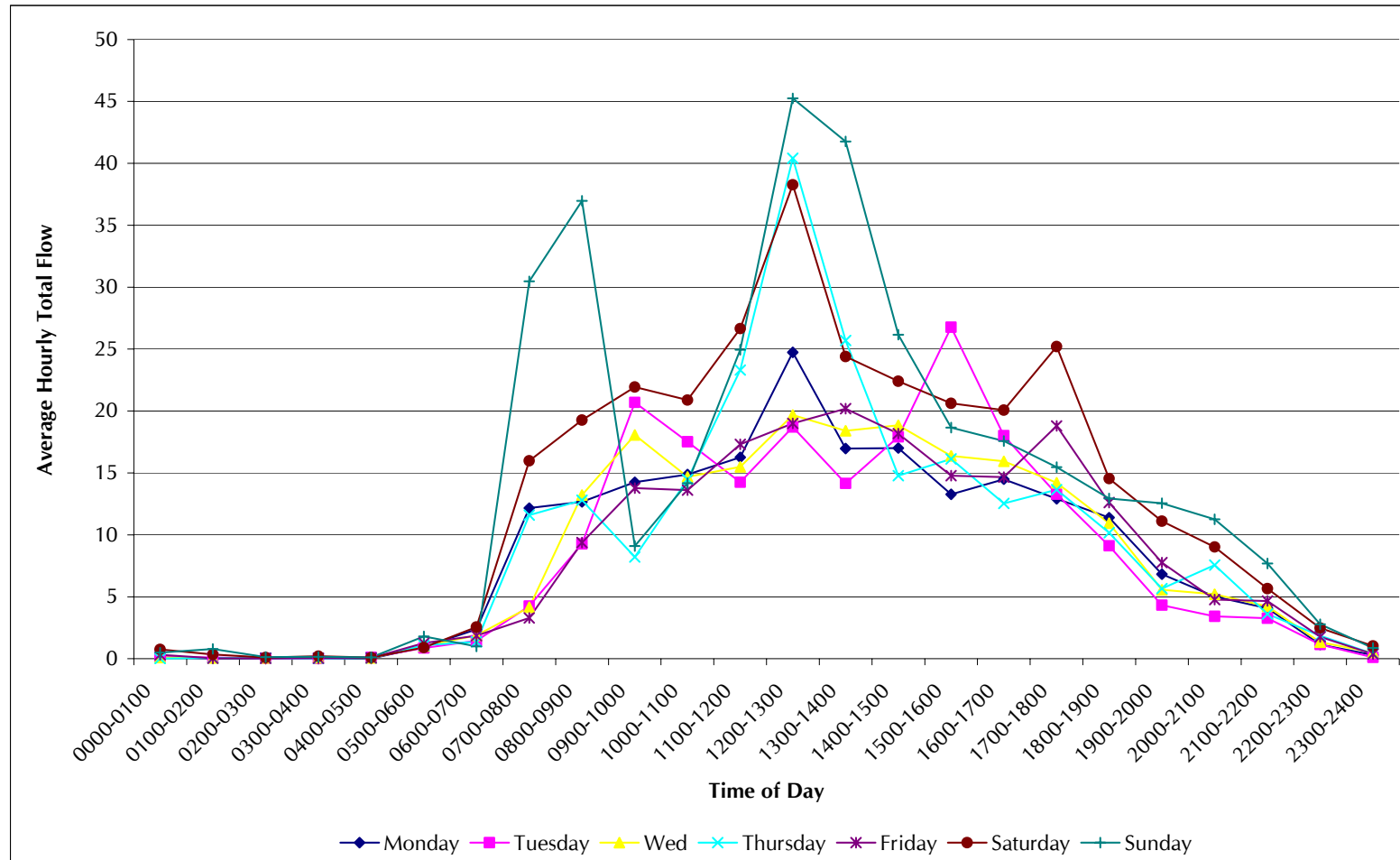


Figure 3.17 Hourly Flow by Time of Day for Bridport Golf Club



4 Analysis of Findings

Retail – Food Superstore

- 4.1 Three sites located in Bournemouth, Poole and Hampshire represent the retail (food superstore) land use. The monthly weekday 24-hour traffic flow variation shows only three notable peaks: Tesco Bournemouth with a December high of +11.0%, Tesco Poole with a January low of –9.1%, and Asda Gosport with a December high of +15.1%. The monthly weekday 12-hour traffic flow variation shows a similar pattern of three notable peaks: Tesco Bournemouth with a December high of +11.8%, Tesco Poole with a January low of –10.3%, and Asda Gosport with a December high of +9.8%. The occurrence of the AM and PM peak hours does not vary by month.
- 4.2 Daily variations in 24-hour traffic flow are typically higher with all three sites showing a Friday peak of between +10.9% and +19.3%. Saturday is always the busiest day, whilst Sunday flows are within 30% of weekday averages. The 12-hour traffic flows shows the same pattern, with Fridays peaking between 11.9% and 18.9%. Sunday flows are within 13% of the weekday averages.
- 4.3 Figures 3.10, 3.11, and 3.12 illustrate the variation in average hourly flows by day of the week for the three sites. There is minimal variation in travel characteristics between the sites. In each case there are distinctive midday and early evening peaks with a dip in traffic flow in the inter peak period. Friday is the busiest weekday and the highest hourly flow occurs in the 17:00 to 18:00 period. Saturday flows are higher, but the peak hour generally remains the same. Sunday trading is highly identifiable with a rapid rise and decline in traffic flows before and after opening hours. Hourly flows peak between 10:00 and 16:00, and throughout this period are higher than on any other day for the equivalent hour and also higher than the Saturday peak flow.

Employment

- 4.4 The Southern Water HQ site represents the employment land use. Tables 3.1 and 3.3 show that the monthly variations in 24-hour and 12-hour weekday flow are low (~ 7%). Tables 3.2 and 3.4 show daily (weekday) variation also low, with Saturday and Sunday flows very small.
- 4.5 Figure 3.13 shows the classic commuter peaks from 0800 to 0900 and 1700 to 1800, and there is also a notable lunchtime peak. The highest morning peak is Friday and the highest evening peak is Wednesday. The Friday profile reveals the tendency of workers to leave early.

Health

- 4.6 The Dorset County Hospital site represents the health land use. Tables 3.1 and 3.3 show modest monthly variation in flow. August is the quietest month with a 24-hour flow 7.5% below the mean. November is the busiest month with an increase of 4.9% in 24-hour flow which accords with expected increases in winter related illnesses. Saturday and Sunday flows (Tables 3.2 and 3.4) are well below weekday levels, probably reflecting lower number of out patients and day surgery patients.

- 4.7 Figure 3.14 shows a consistent daily weekday pattern with 14:00 to 15:00 being the busiest hour on all weekdays. However, whilst Monday is the busiest day overall, the highest hourly flow occurs on Tuesday. Weekends follow a similar pattern, albeit at a lower level, although there are notable peaks on both days between 07:00 and 08:00 hours.

Residential

- 4.8 Two sites on roads serving the Badger Farm Estate in Winchester represent the residential land use category. Tables 3.1 and 3.3 show modest monthly variation of less than 10% in 12-hour and 24-hour flow. Daily variations are less than 5%, with Friday being the peak day for 12-hour and 24-hour flow. Saturday flows are very close to those for weekdays with Sunday slightly lower.
- 4.9 Figures 3.15 and 3.16 show similar hourly profiles for Meadow Way and Ridgeway. The weekday profiles follow typical commuter patterns with peaks from 08:00 to 09:00 and 17:00 to 18:00. Saturday and Sunday profiles are flatter throughout the day with lunchtime peaks.

Golf

- 4.10 Bridport is the only golf club included in the sample. Table 3.1 shows considerable monthly variation in 24-hour weekday flow from a low of –37.2% in December to a high of +49.7.1% in August. Daily weekday variations are less marked. Saturday and Sunday are the busiest days of the week, but are only some 10% above the weekday peak.
- 4.11 Figure 3.17 shows the hourly variations by day of the week. Weekdays show a reasonably flat and consistent profile between 09:00 and 18:00, although Thursday is an exception with a much higher lunchtime peak that may be explained by a function. Saturday has a notable peak between 12:00 and 13:00 and Sunday has two obvious peaks 08:00 to 09:00 and 12:00 to 13:00.

Guidance on Surveys

- 4.12 Analysis of the data suggests the most appropriate time to undertake travel surveys.
- 4.13 Neutral months may be considered to be those where the mean weekday 24-hour traffic flow is within 5% of the annual average. For land uses with more than one site, the data was combined. Table 4.1 shows the neutral months for each land use.
- 4.14 In a similar way, neutral days may be considered to be those where the mean 24-hour traffic flow is within 5% of the annual average. Table 4.2 shows the neutral days for each land use.
- 4.15 Conversely, peak months may be considered to be those where the mean weekday 24-hour traffic flow is greater than 10% of the annual average. Table 4.3 shows the peak months for each land use.
- 4.16 And finally, Table 4.4 shows the peak 2-hour period by day of week, by land use.

Table 4.1 Months with less than 5% variation in mean weekday 24-hour flow

Month	Land Use				
	Retail	Residential	Employment	Health	Golf
January			√	√	
February	√	√	√	√	
March	√	√	√	√	
April	√	√	√	√	
May	√	√	√	√	
June		√	√	√	
July	√	√	√	√	
August	√				
September	√	√			√
October	√	√	√	√	
November		√	√	√	
December		√		√	

Table 4.2 Days with less than 5% variation in mean 24-hour flow

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday	√	√	√	√	√
Tuesday	√	√	√	√	√
Wednesday	√	√	√	√	√
Thursday	√	√	√	√	
Friday		√			√
Saturday		√			
Sunday					

Table 4.3 Days with more than 10% variation in mean 24-hour flow

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday					
Tuesday					
Wednesday					
Thursday					
Friday	√				
Saturday	√		√	√	√
Sunday	√	√	√	√	√

Table 4.4 Peak 2-hour period by Day of Week and Land Use

Day of Week	Land Use				
	Retail	Residential	Employment	Health	Golf
Monday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	12:00 - 14:00
Tuesday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	14:00 - 16:00
Wednesday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	14:00 - 16:00	12:00 - 14:00
Thursday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	13:00 - 15:00	12:00 - 14:00
Friday	17:00 - 19:00	17:00 - 19:00	07:00 - 09:00	13:00 - 15:00	12:00 - 14:00
Saturday	16:00 - 18:00	11:00 - 13:00	07:00 - 09:00	13:00 - 15:00	11:00 - 13:00
Sunday	12:00 - 14:00	11:00 - 13:00	12:00 - 14:00	13:00 - 15:00	12:00 - 14:00

Appendix A

Analysis of 24-hour Traffic Flows

Figure A1	24-hour Traffic Flow for Tesco Bournemouth, by month
Figure A2	24-hour Traffic Flow for Tesco Bournemouth, by day of week
Figure A3	24-hour Traffic Flow for Tesco Poole, by month
Figure A4	24-hour Traffic Flow for Tesco Poole, by day of week
Figure A5	24-hour Traffic Flow for Asda Gosport, by month
Figure A6	24-hour Traffic Flow for Asda Gosport, by day of week
Figure A7	24-hour Traffic Flow for Southern Water, by month
Figure A8	24-hour Traffic Flow for Southern Water, by day of week
Figure A9	24-hour Traffic Flow for Dorset County Hospital, by month
Figure A10	24-hour Traffic Flow for Dorset County Hospital, by day of week
Figure A11	24-hour Traffic Flow for Badger Farm Ridge Way, by month
Figure A12	24-hour Traffic Flow for Badger Farm Ridge Way, by day of week
Figure A13	24-hour Traffic Flow for Badger Farm Meadow Way, by month
Figure A14	24-hour Traffic Flow for Badger Farm Meadow Way, by day of week
Figure A15	24-hour Traffic Flow for Bridport Golf Club, by month
Figure A16	24-hour Traffic Flow for Bridport Golf Club, by day of week
Table A1	Mean Weekday 24-hour Traffic Flow, by month
Table A2	Mean Saturday 24-hour Traffic Flow, by month
Table A3	Mean Sunday 24-hour Traffic Flow, by month
Table A4	Mean 24-hour Traffic Flow, by day of week

Figure A1 24-hour Traffic Flow for Tesco Bournemouth, by month

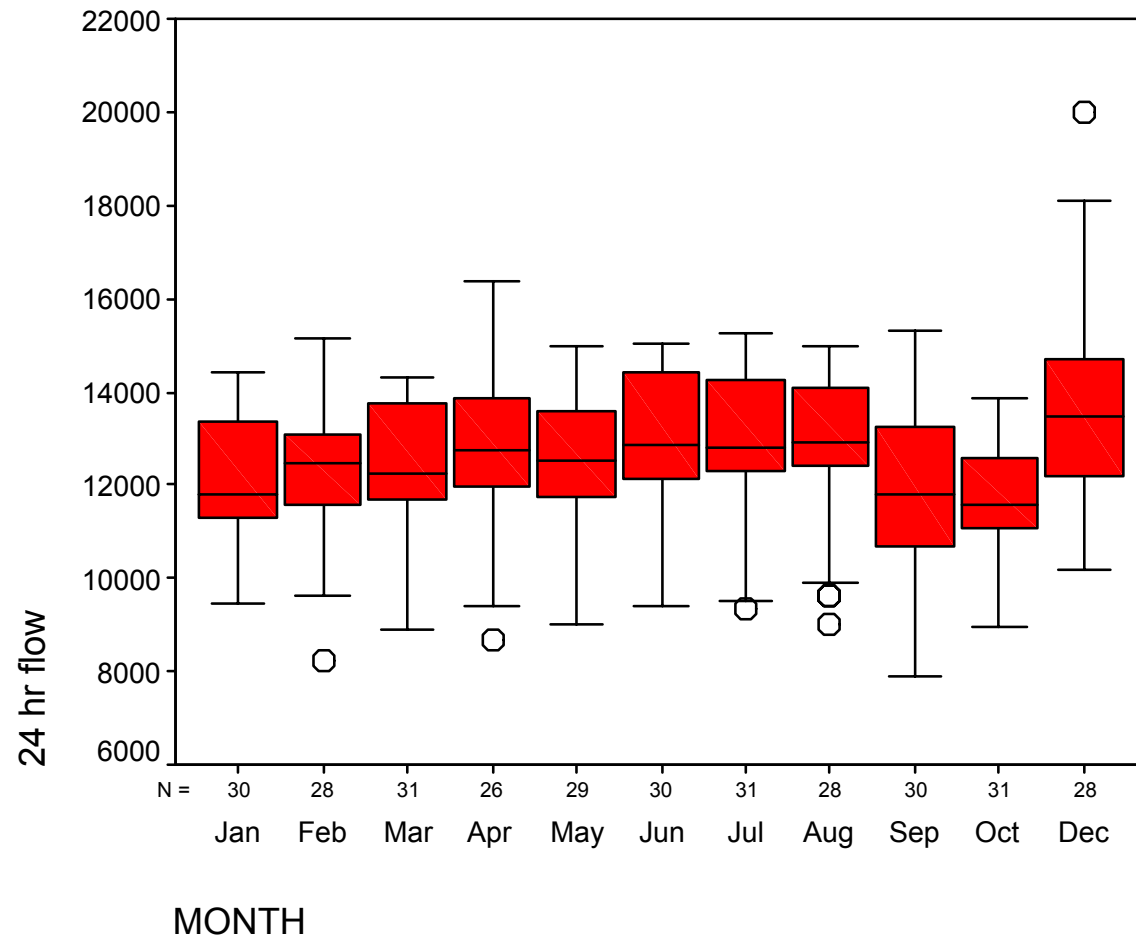


Figure A2 24-hour Traffic Flow for Tesco Bournemouth, by day of week

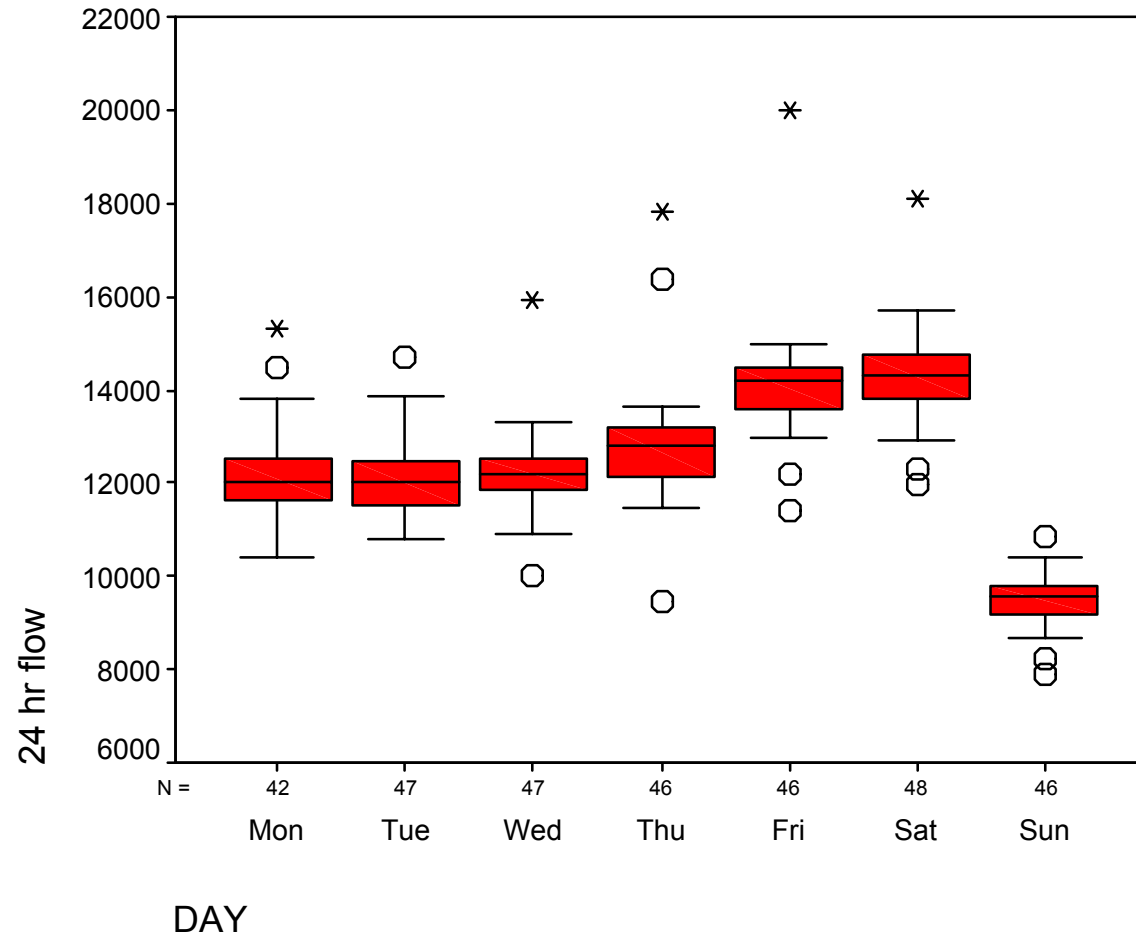


Figure A3 24-hour Traffic Flow for Tesco Poole, by month

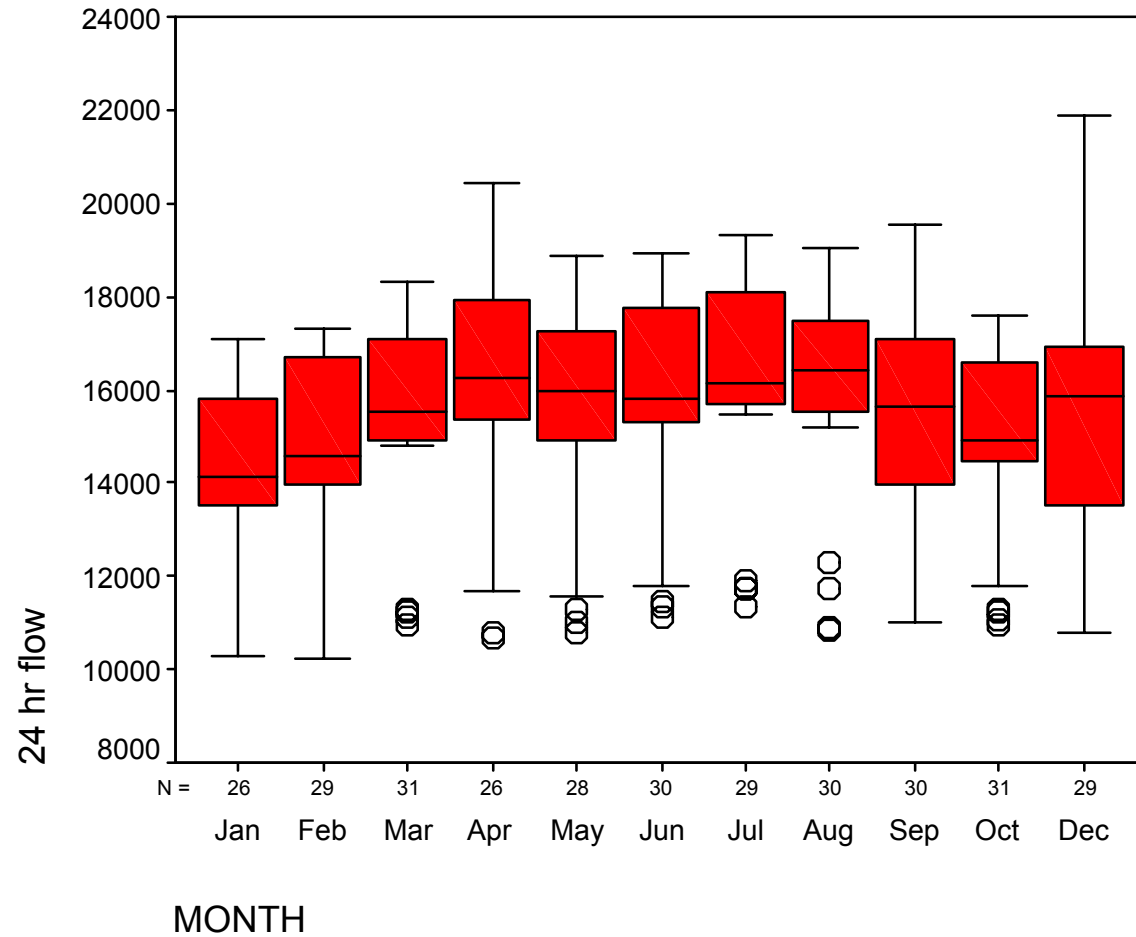


Figure A4 24-hour Traffic Flow for Tesco Poole, by day of week

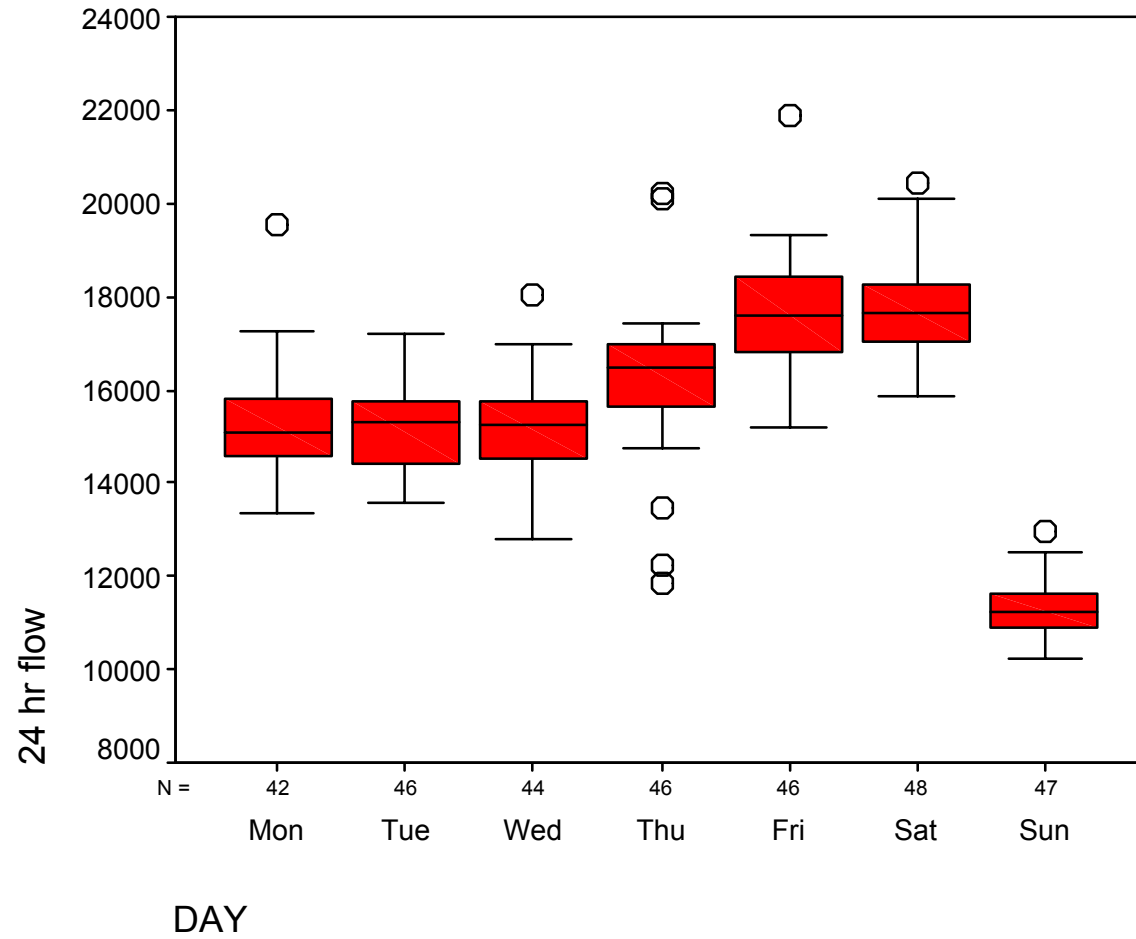


Figure A5 24-hour Traffic Flow for Asda Gosport, by month

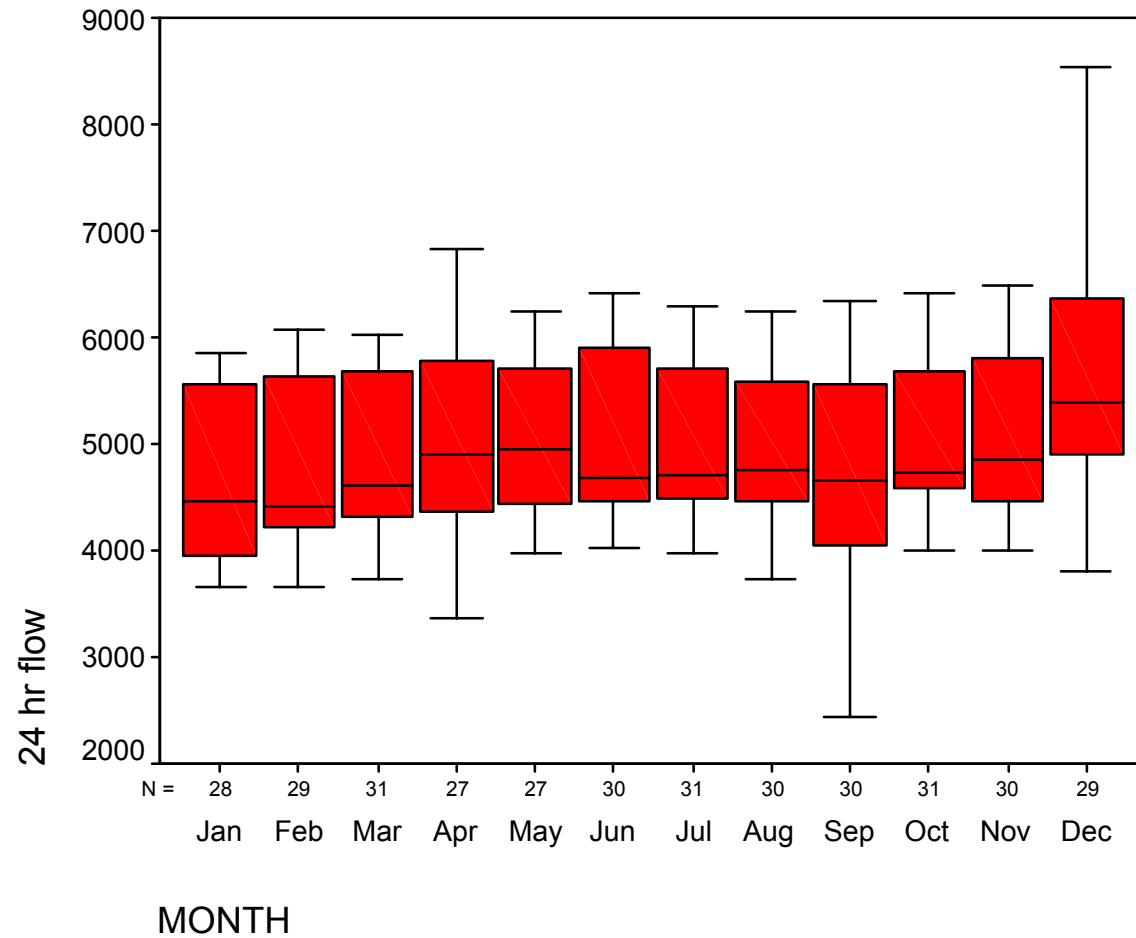


Figure A6 24-hour Traffic Flow for Asda Gosport, by day of week

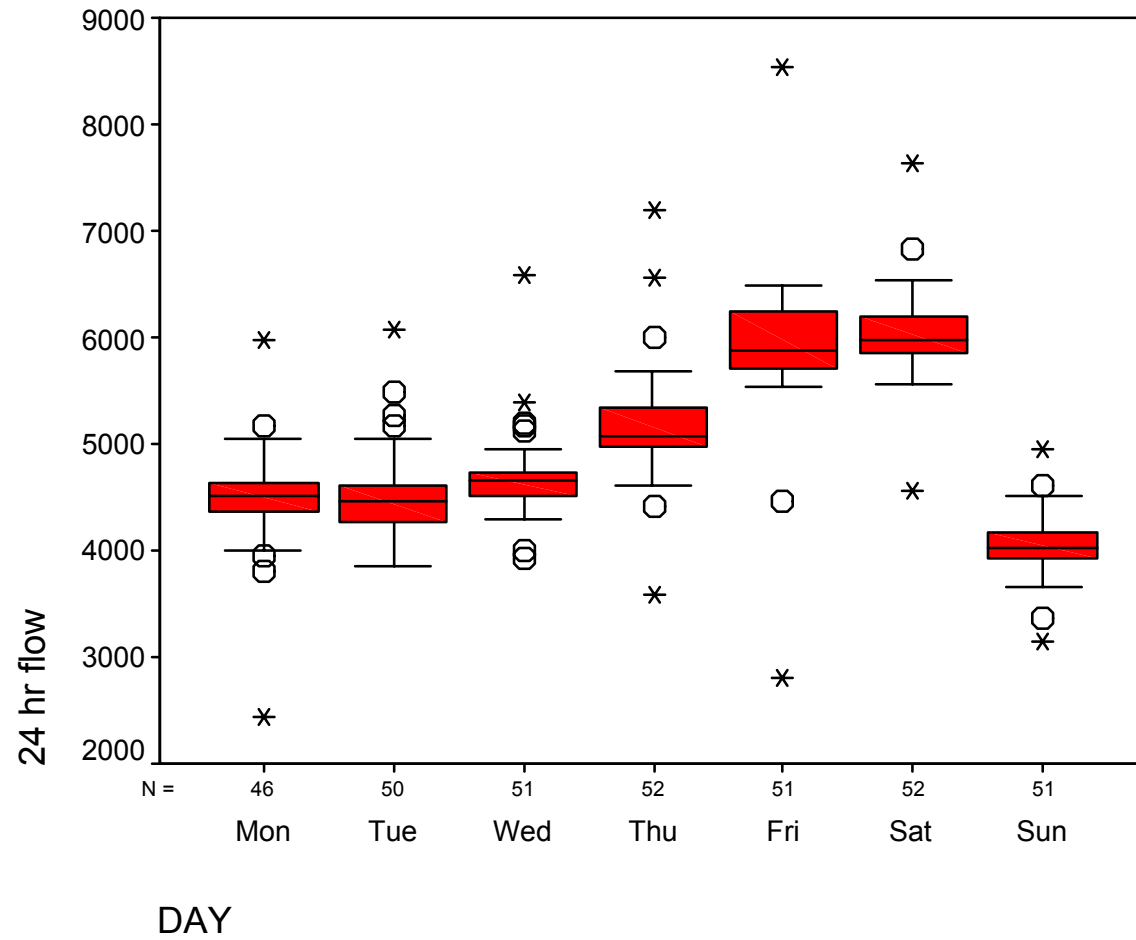


Figure A7 24-hour Traffic Flow for Southern Water, by month

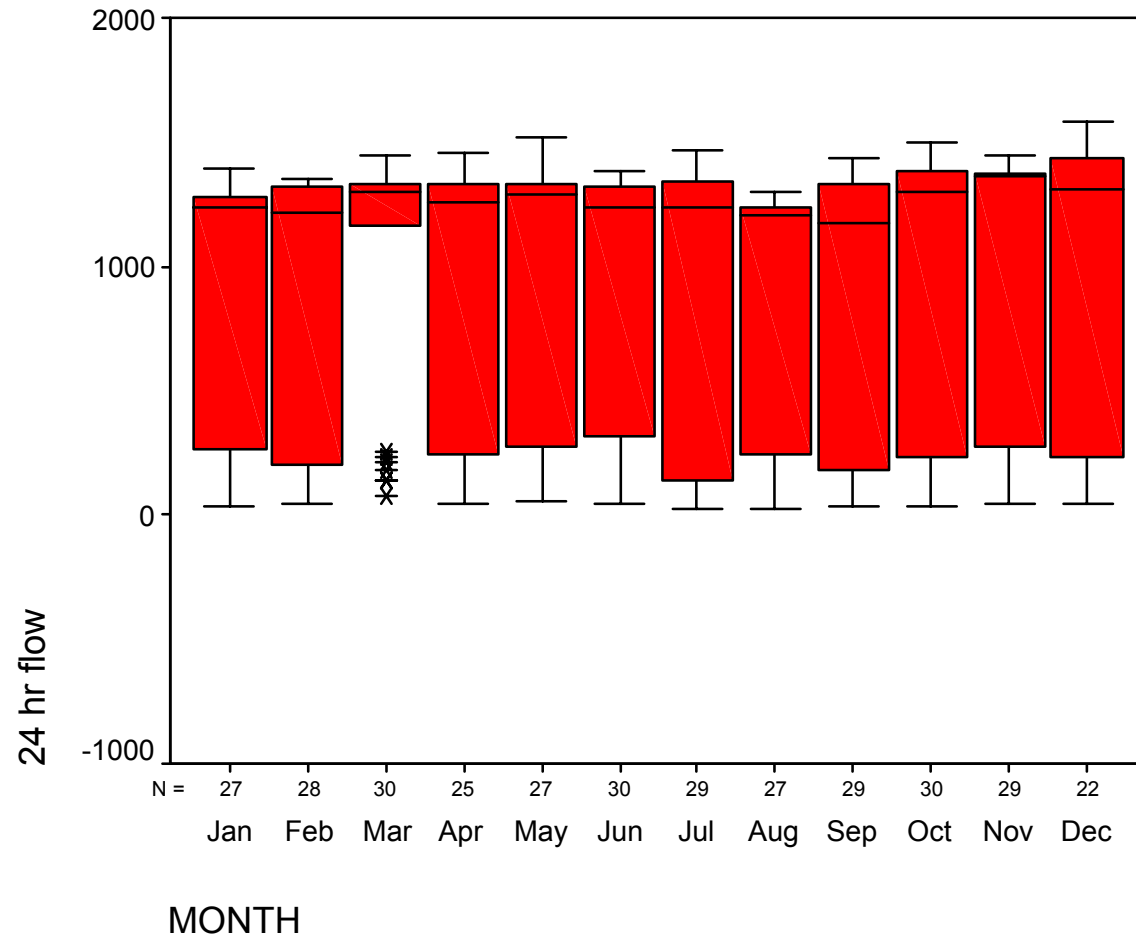


Figure A8 24-hour Traffic Flow for Southern Water, by day of week

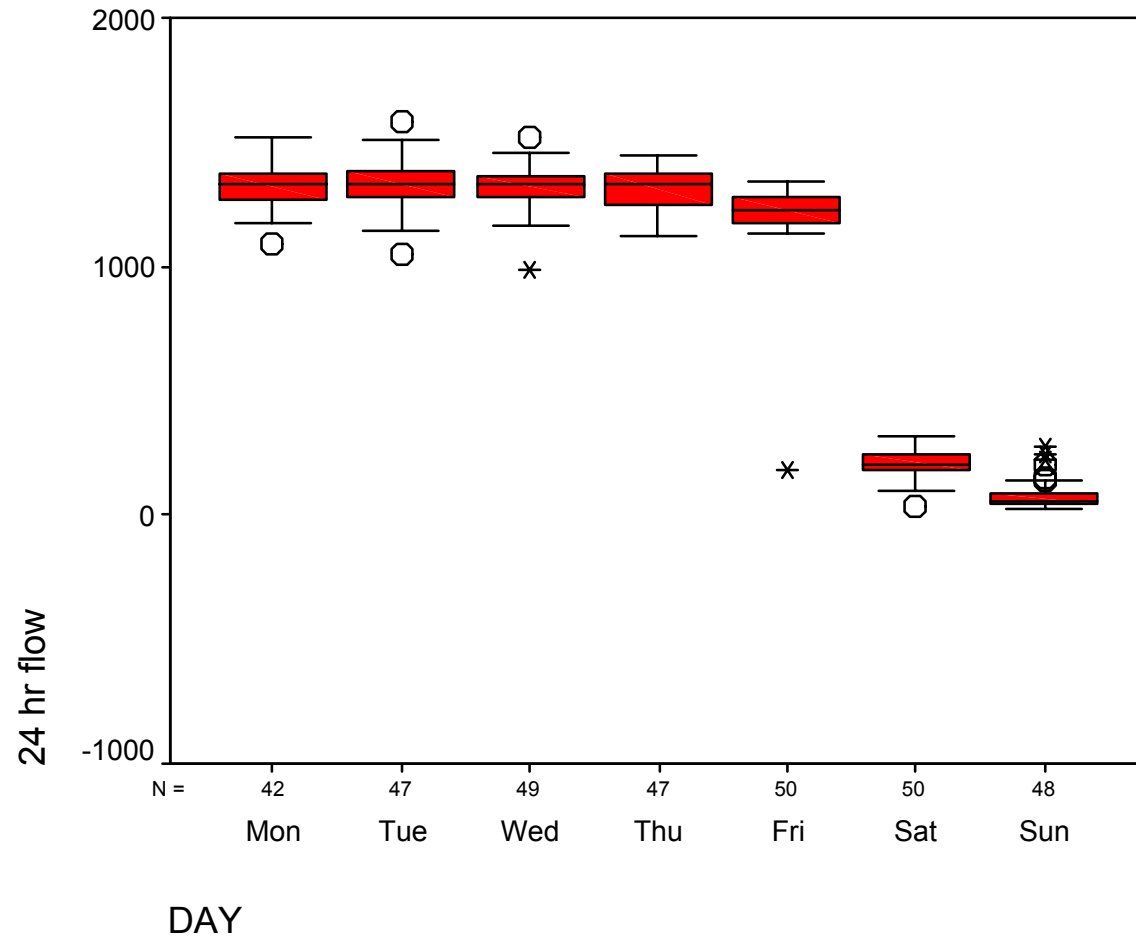


Figure A9 24-hour Traffic Flow for Dorset County Hospital, by month

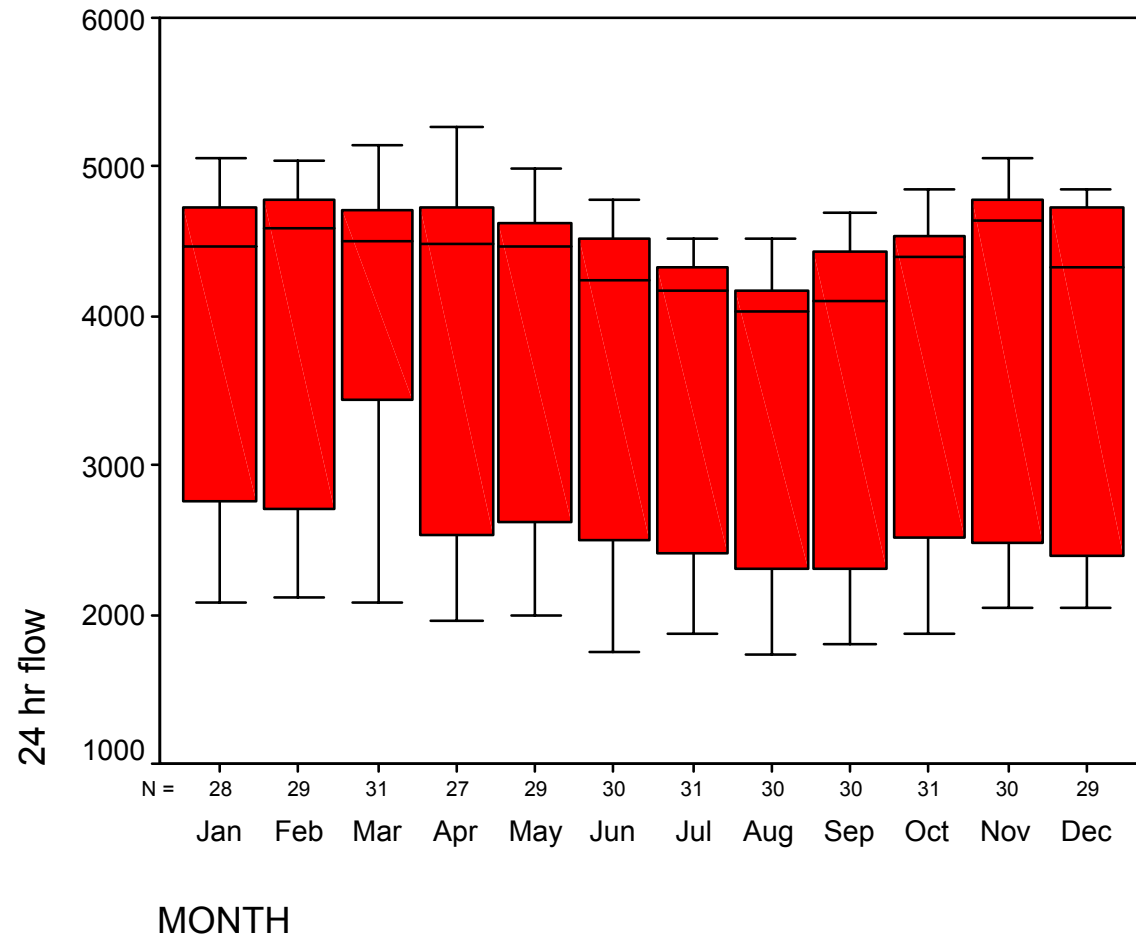


Figure A10 24-hour Traffic Flow for Dorset County Hospital, by day of week

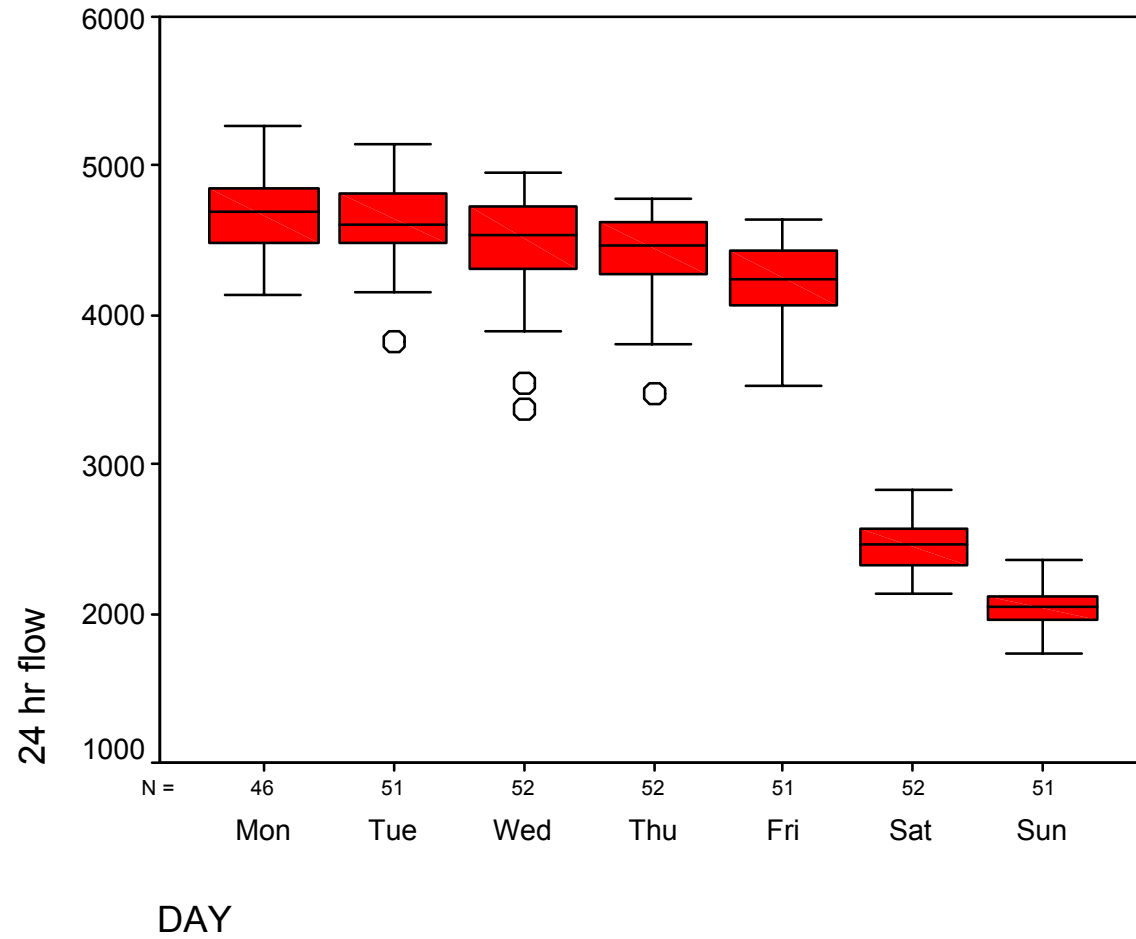


Figure A11 24-hour Traffic Flow for Badger Farm Ridge Way, by month

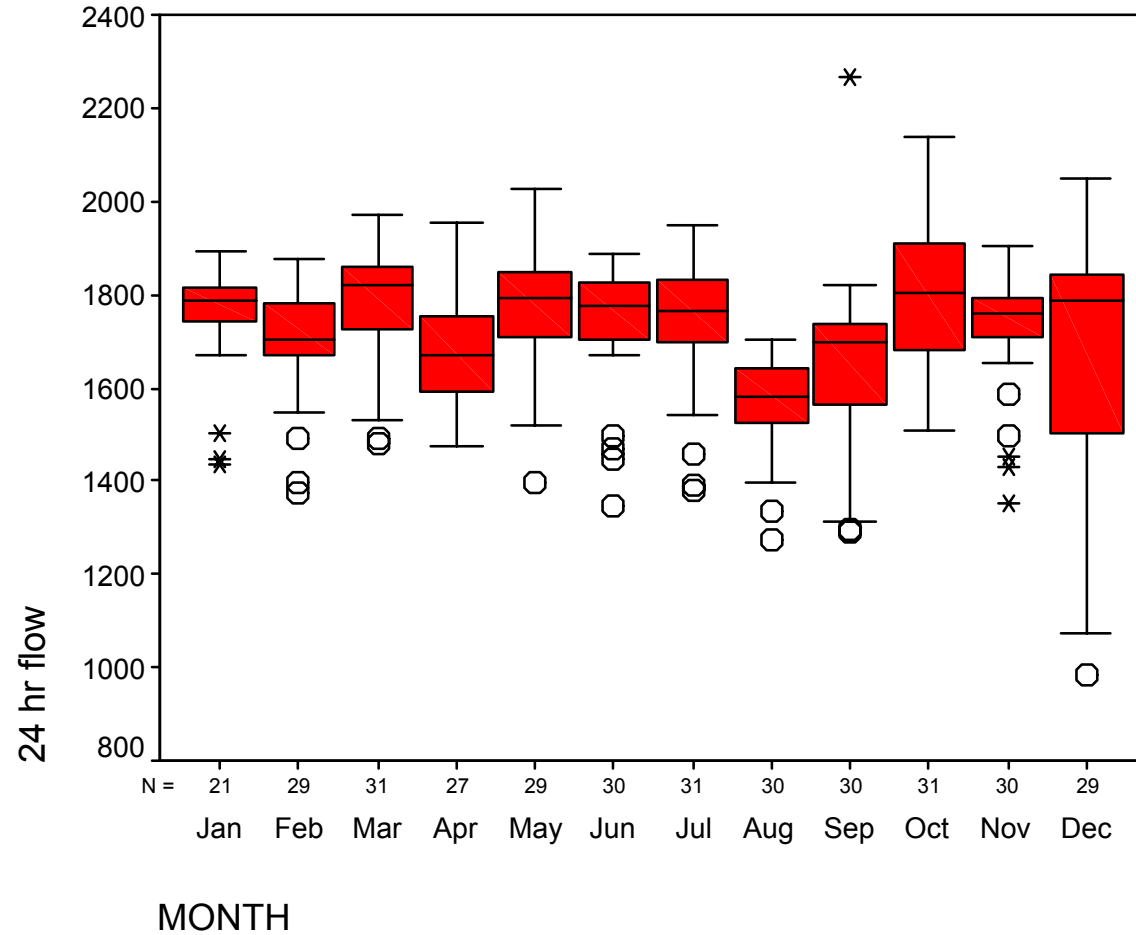


Figure A12 24-hour Traffic Flow for Badger Farm Ridge Way, by day of week

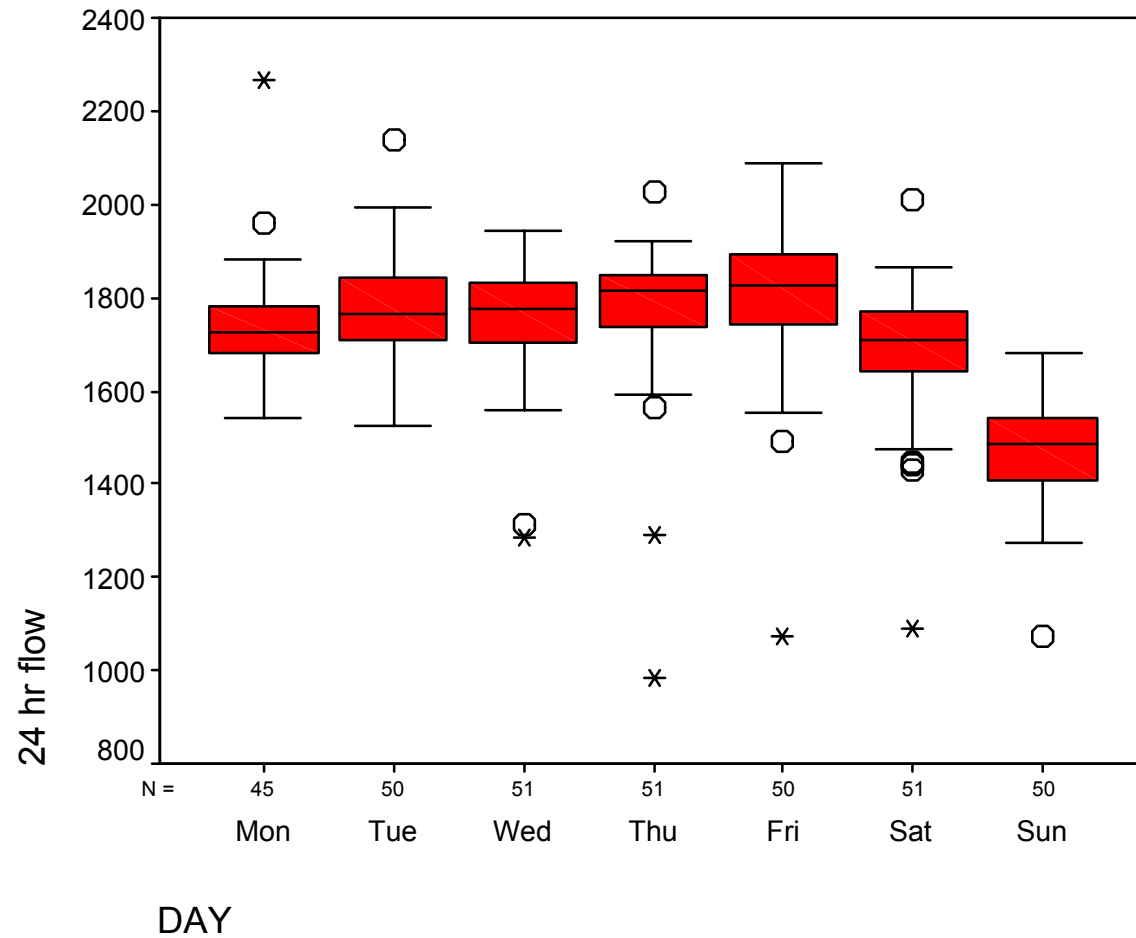


Figure A13 24-hour Traffic Flow for Badger Meadow Way, by month

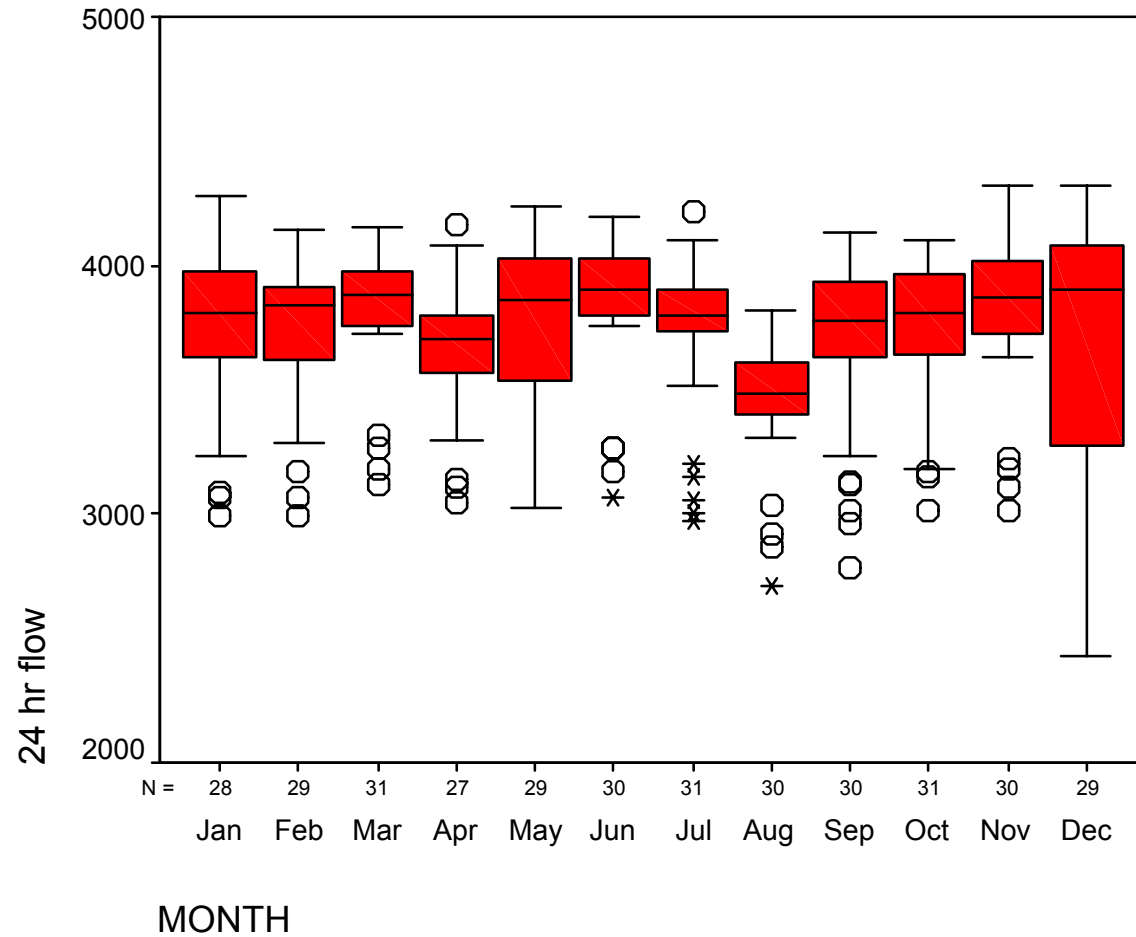


Figure A14 24-hour Traffic Flow for Badger Farm Meadow Way, by day of week

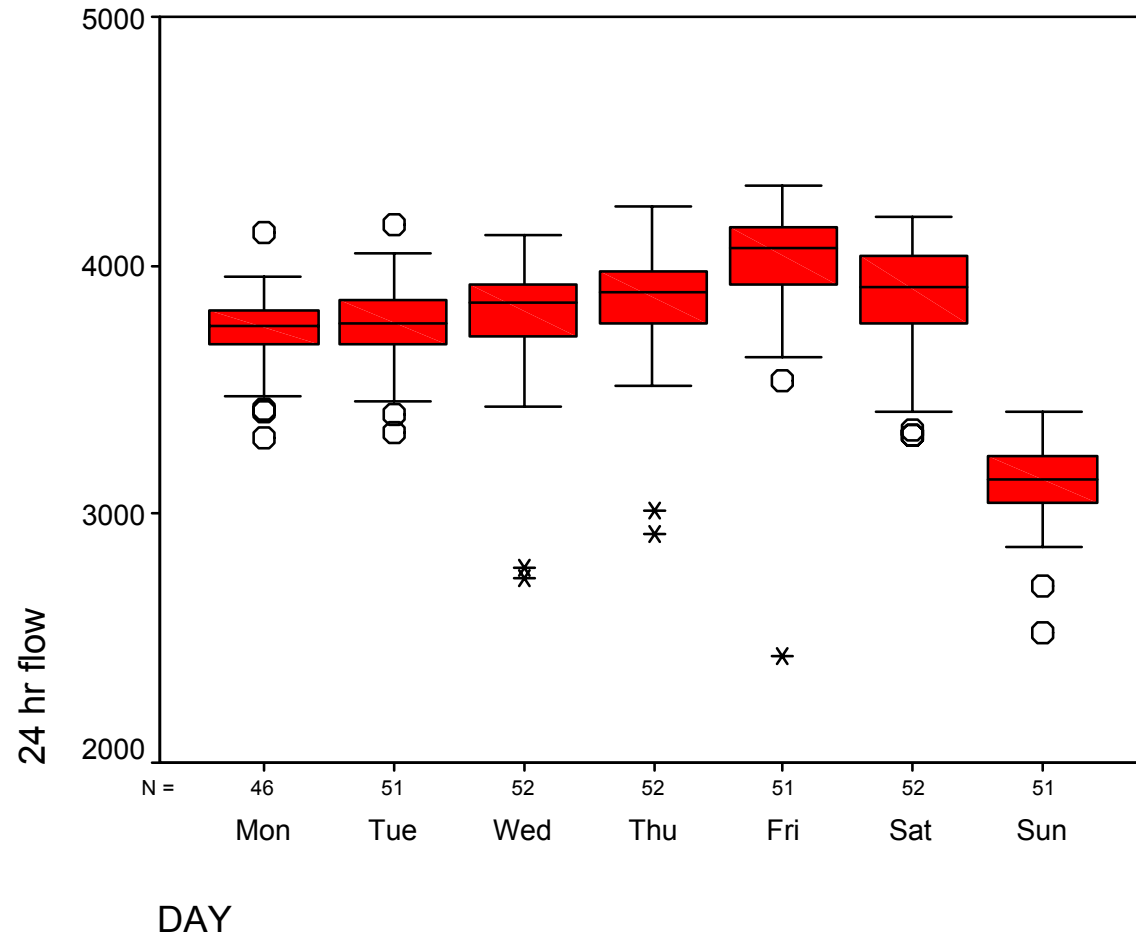


Figure A15 24-hour Traffic Flow for Bridport Golf Club, by month

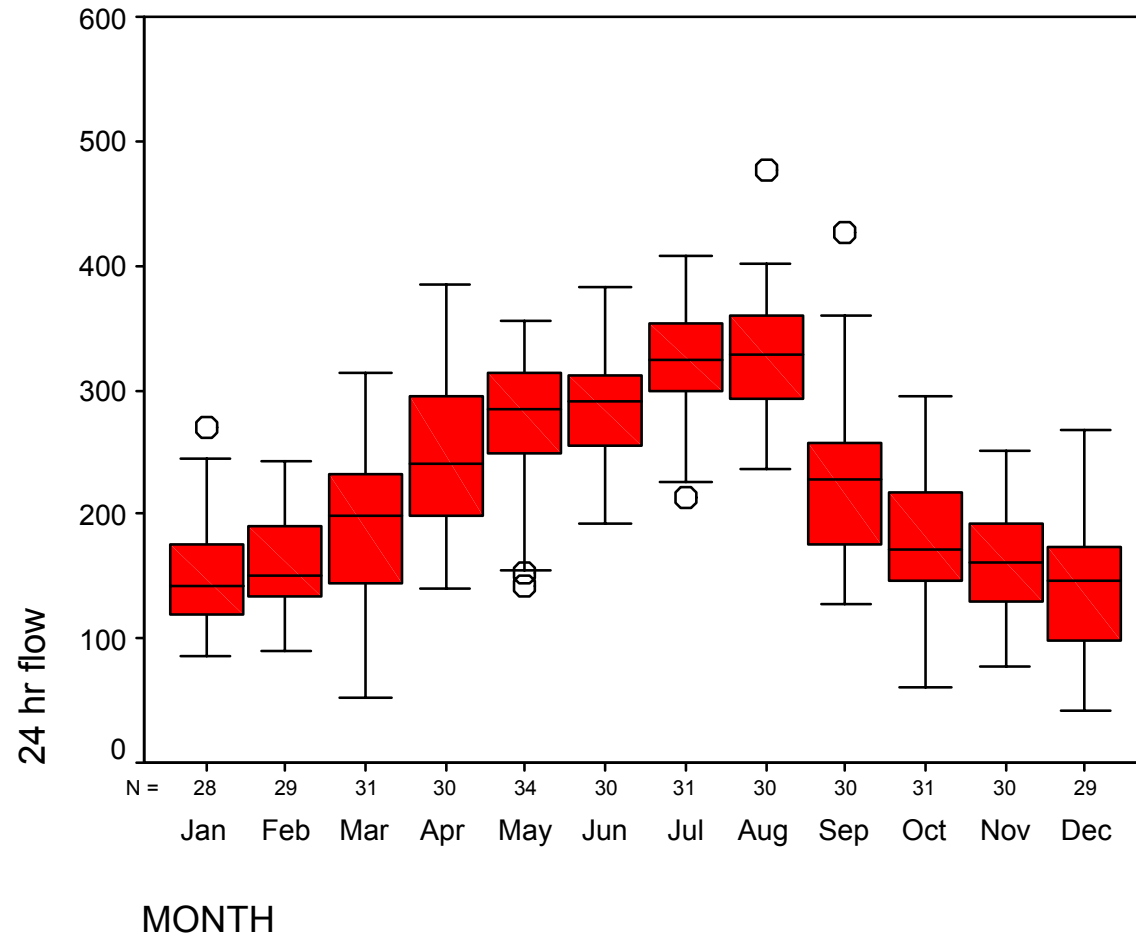


Figure A16 24-hour Traffic Flow for Bridport Golf Club, by day of week

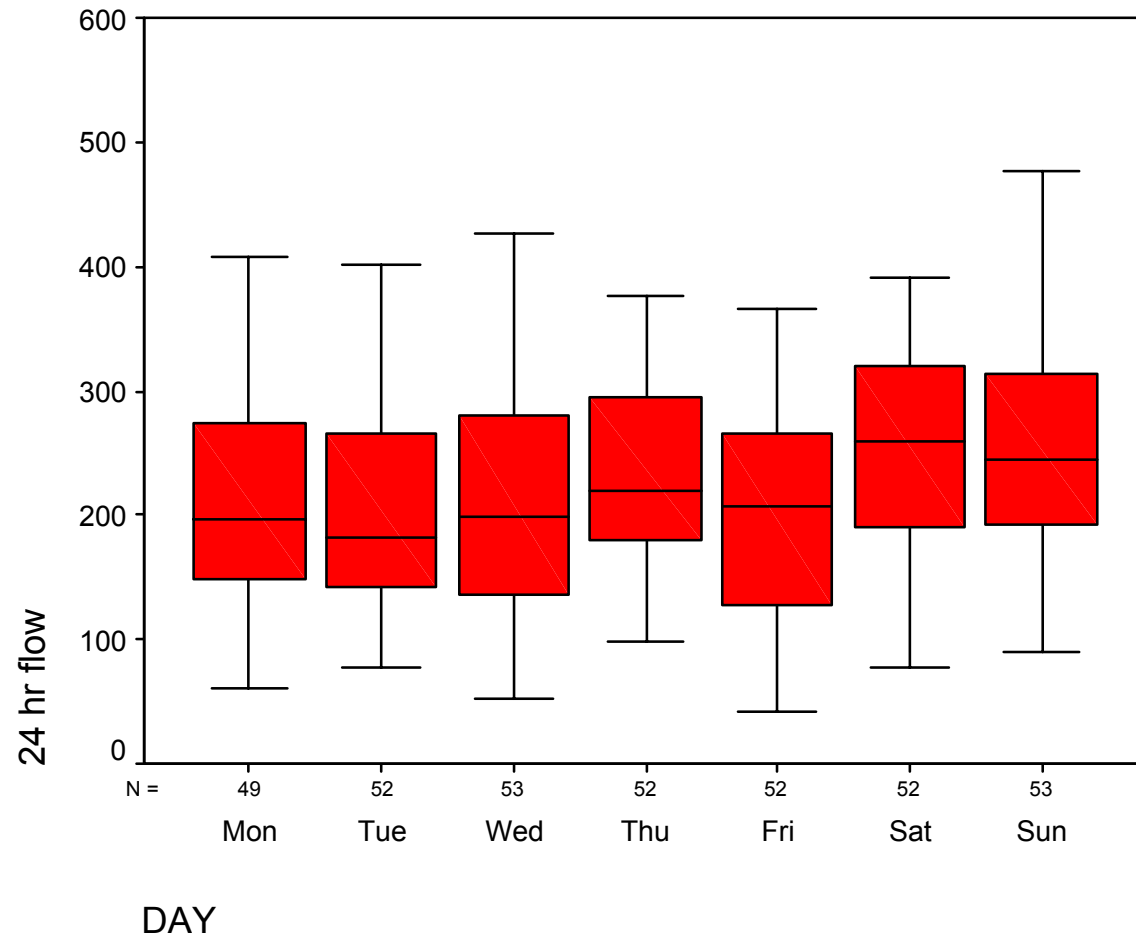


Table A1 Mean Weekday 24-hour traffic flow

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	12,136	-4.3%	14,473	-9.1%	4,585	-7.5%	1,265	-2.4%
Feb	12,520	-1.2%	15,061	-5.4%	4,726	-4.7%	1,263	-2.6%
Mar	12,467	-1.6%	15,919	0.0%	4,854	-2.1%	1,311	1.1%
Apr	12,921	1.9%	16,573	4.1%	5,021	1.2%	1,312	1.2%
May	12,623	-0.4%	16,045	0.8%	4,980	0.4%	1,318	1.7%
Jun	13,017	2.7%	16,461	3.4%	5,087	2.6%	1,280	-1.2%
Jul	13,136	3.6%	16,735	5.1%	4,948	-0.2%	1,302	0.5%
Aug	13,071	3.1%	16,630	4.5%	4,945	-0.3%	1,217	-6.1%
Sep	11,997	-5.3%	15,657	-1.6%	4,645	-6.3%	1,212	-6.5%
Oct	11,792	-7.0%	15,440	-3.0%	5,032	1.5%	1,347	3.9%
Nov	-	-	-	-	5,039	1.6%	1,359	4.8%
Dec	14,064	11.0%	16,076	1.0%	5,708	15.1%	1,386	6.9%
Total	12,675		15,917		4,959		1,296	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	4,657	3.9%	1,805	2.1%	3,843	0.4%	140	-33.9%
Feb	4,676	4.4%	1,747	-1.2%	3,844	0.5%	147	-30.4%
Mar	4,617	3.0%	1,825	3.3%	3,886	1.6%	165	-21.8%
Apr	4,678	4.4%	1,735	-1.8%	3,737	-2.3%	231	9.5%
May	4,546	1.4%	1,814	2.6%	3,881	1.5%	263	24.2%
Jun	4,343	-3.1%	1,802	2.0%	3,947	3.2%	280	32.4%
Jul	4,277	-4.5%	1,807	2.2%	3,857	0.8%	316	49.7%
Aug	4,147	-7.5%	1,611	-8.9%	3,563	-6.9%	313	48.1%
Sep	4,226	-5.7%	1,702	-3.7%	3,761	-1.7%	212	0.3%
Oct	4,480	0.0%	1,845	4.4%	3,845	0.5%	164	-22.6%
Nov	4,701	4.9%	1,778	0.6%	3,902	2.0%	156	-26.2%
Dec	4,459	-0.5%	1,737	-1.7%	3,830	0.1%	133	-37.2%
Total	4,481		1,767		3,826		211	

Table A2 Mean Saturday 24-hour traffic flow

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	14,119	-1.4%	16,492	-6.7%	5,796	-3.7%	215	6.4%
Feb	14,216	-0.7%	16,949	-4.1%	5,869	-2.5%	184	-9.0%
Mar	13,983	-2.4%	17,510	-0.9%	5,906	-1.9%	220	9.0%
Apr	14,632	2.2%	18,409	4.2%	6,075	0.9%	215	6.2%
May	14,075	-1.7%	18,054	2.2%	5,926	-1.6%	218	7.8%
Jun	14,659	2.4%	18,205	3.0%	5,975	-0.8%	238	17.8%
Jul	14,651	2.3%	18,410	4.2%	6,003	-0.3%	165	-18.1%
Aug	14,520	1.4%	18,427	4.3%	5,938	-1.4%	219	8.4%
Sep	13,498	-5.7%	17,323	-1.9%	5,739	-4.7%	140	-30.9%
Oct	13,577	-5.2%	17,285	-2.2%	6,227	3.4%	220	8.8%
Nov	-	-	-	-	6,138	2.0%	230	14.0%
Dec	15,383	7.4%	17,121	-3.1%	6,576	9.2%	186	-8.1%
Total	14,321		17,667		6,020		202	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	2,685	9.4%	1,739	3.1%	3,952	2.6%	162	-36.2%
Feb	2,631	7.2%	1,678	-0.5%	3,868	0.4%	190	-25.3%
Mar	2,664	8.6%	1,777	5.3%	4,027	4.5%	246	-3.0%
Apr	2,507	2.2%	1,653	-2.0%	3,774	-2.0%	301	18.6%
May	2,476	0.9%	1,748	3.6%	3,868	0.4%	301	18.5%
Jun	2,383	-2.9%	1,705	1.0%	3,945	2.4%	313	23.2%
Jul	2,360	-3.8%	1,710	1.3%	3,891	1.0%	330	30.1%
Aug	2,242	-8.6%	1,498	-11.2%	3,435	-10.8%	357	40.5%
Sep	2,274	-7.3%	1,631	-3.3%	3,782	-1.8%	303	19.2%
Oct	2,449	-0.2%	1,836	8.8%	3,854	0.0%	200	-21.3%
Nov	2,390	-2.6%	1,730	2.5%	4,043	5.0%	155	-38.9%
Dec	2,436	-0.7%	1,597	-5.4%	3,822	-0.8%	168	-33.9%
Total	2,453		1,688		3,852		254	

Table A3 Mean Sunday 24-hour traffic flow

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	9,520	0.0%	10,521	-6.6%	3,826	-5.3%	136	75.8%
Feb	9,448	-0.7%	10,818	-4.0%	3,928	-2.8%	133	71.9%
Mar	9,234	-3.0%	11,170	-0.9%	3,830	-5.2%	117	52.2%
Apr	9,255	-2.7%	11,325	0.5%	3,839	-5.0%	54	-30.3%
May	9,373	-1.5%	11,161	-0.9%	4,056	0.4%	128	66.4%
Jun	9,642	1.3%	11,430	1.4%	4,084	1.1%	66	-14.7%
Jul	9,653	1.4%	11,691	3.8%	4,056	0.4%	66	-13.9%
Aug	9,541	0.2%	11,447	1.6%	3,982	-1.5%	52	-32.2%
Sep	9,211	-3.2%	11,602	3.0%	3,958	-2.1%	36	-53.9%
Oct	9,208	-3.2%	11,269	0.0%	4,231	4.7%	48	-37.5%
Nov	-	-	-	-	4,138	2.4%	53	-31.6%
Dec	10,369	9.0%	11,372	0.9%	4,422	9.4%	50	-35.1%
Total	9,517		11,267		4,041		77	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	2,202	7.7%	1,462	-0.4%	3,096	-0.9%	194	-22.5%
Feb	2,192	7.2%	1,453	-1.0%	3,130	0.2%	180	-28.2%
Mar	2,146	5.0%	1,509	2.9%	3,223	3.2%	279	11.5%
Apr	2,089	2.2%	1,525	4.0%	3,148	0.8%	261	4.5%
May	2,044	0.0%	1,507	2.7%	3,266	4.6%	279	11.5%
Jun	1,891	-7.5%	1,438	-1.9%	3,189	2.1%	291	16.4%
Jul	1,963	-3.9%	1,462	-0.3%	3,076	-1.5%	331	32.4%
Aug	1,875	-8.3%	1,355	-7.6%	2,883	-7.7%	378	51.1%
Sep	1,906	-6.8%	1,441	-1.8%	3,109	-0.4%	228	-8.7%
Oct	1,999	-2.2%	1,572	7.2%	3,157	1.1%	220	-11.8%
Nov	2,115	3.4%	1,432	-2.4%	3,129	0.2%	190	-24.1%
Dec	2,120	3.7%	1,429	-2.6%	3,081	-1.3%	167	-33.1%
Total	2,044		1,467		3,123		250	

Table A4 Mean 24-hour traffic flow, by day of week

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	12,165	-4.0%	15,236	-4.3%	4,492	-9.4%	1,322	2.0%
Tuesday	12,098	-4.6%	15,193	-4.5%	4,496	-9.3%	1,325	2.2%
Wednesday	12,199	-3.8%	15,179	-4.6%	4,673	-5.8%	1,315	1.5%
Thursday	12,788	0.9%	16,229	2.0%	5,161	4.1%	1,314	1.4%
Friday	14,105	11.3%	17,657	10.9%	5,915	19.3%	1,212	-6.5%
Saturday	14,321	13.0%	17,667	11.0%	6,020	21.4%	202	-84.4%
Sunday	9,517	-24.9%	11,267	-29.2%	4,041	-18.5%	77	-94.1%
Weekday	12,675		15,917		4,959		1,296	
Total	12,469		15,495		4,983		956	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	4,686	4.6%	1,742	-1.4%	3,740	-2.3%	208	-1.6%
Tuesday	4,631	3.3%	1,765	-0.1%	3,749	-2.0%	205	-2.9%
Wednesday	4,467	-0.3%	1,750	-1.0%	3,788	-1.0%	210	-0.8%
Thursday	4,422	-1.3%	1,773	0.4%	3,842	0.4%	230	8.7%
Friday	4,222	-5.8%	1,803	2.0%	4,003	4.6%	204	-3.6%
Saturday	2,453	-45.3%	1,688	-4.5%	3,852	0.7%	254	20.1%
Sunday	2,044	-54.4%	1,467	-17.0%	3,123	-18.4%	250	18.2%
Weekday	4,481		1,767		3,826		211	
Total	3,834		1,712		3,729		223	

Appendix B

Analysis of 12-hour Traffic Flows

Figure B1	12-hour Traffic Flow for Tesco Bournemouth, by month
Figure B2	12-hour Traffic Flow for Tesco Bournemouth, by day of week
Figure B3	12-hour Traffic Flow for Tesco Poole, by month
Figure B4	12-hour Traffic Flow for Tesco Poole, by day of week
Figure B5	12-hour Traffic Flow for Asda Gosport, by month
Figure B6	12-hour Traffic Flow for Asda Gosport, by day of week
Figure B7	12-hour Traffic Flow for Southern Water, by month
Figure B8	12-hour Traffic Flow for Southern Water, by day of week
Figure B9	12-hour Traffic Flow for Dorset County Hospital, by month
Figure B10	12-hour Traffic Flow for Dorset County Hospital, by day of week
Figure B11	12-hour Traffic Flow for Badger Farm Ridge Way, by month
Figure B12	12-hour Traffic Flow for Badger Farm Ridge Way, by day of week
Figure B13	12-hour Traffic Flow for Badger Farm Meadow Way, by month
Figure B14	12-hour Traffic Flow for Badger Farm Meadow Way, by day of week
Figure B15	12-hour Traffic Flow for Bridport Golf Club, by month
Figure B16	12-hour Traffic Flow for Bridport Golf Club, by day of week
Table B1	Mean Weekday 12-hour Traffic Flow, by month
Table B2	Mean Saturday 12-hour Traffic Flow, by month
Table B3	Mean Sunday 12-hour Traffic Flow, by month
Table B4	Mean 12-hour Traffic Flow, by day of week

Figure B1 12-hour Traffic Flow for Tesco Bournemouth, by month

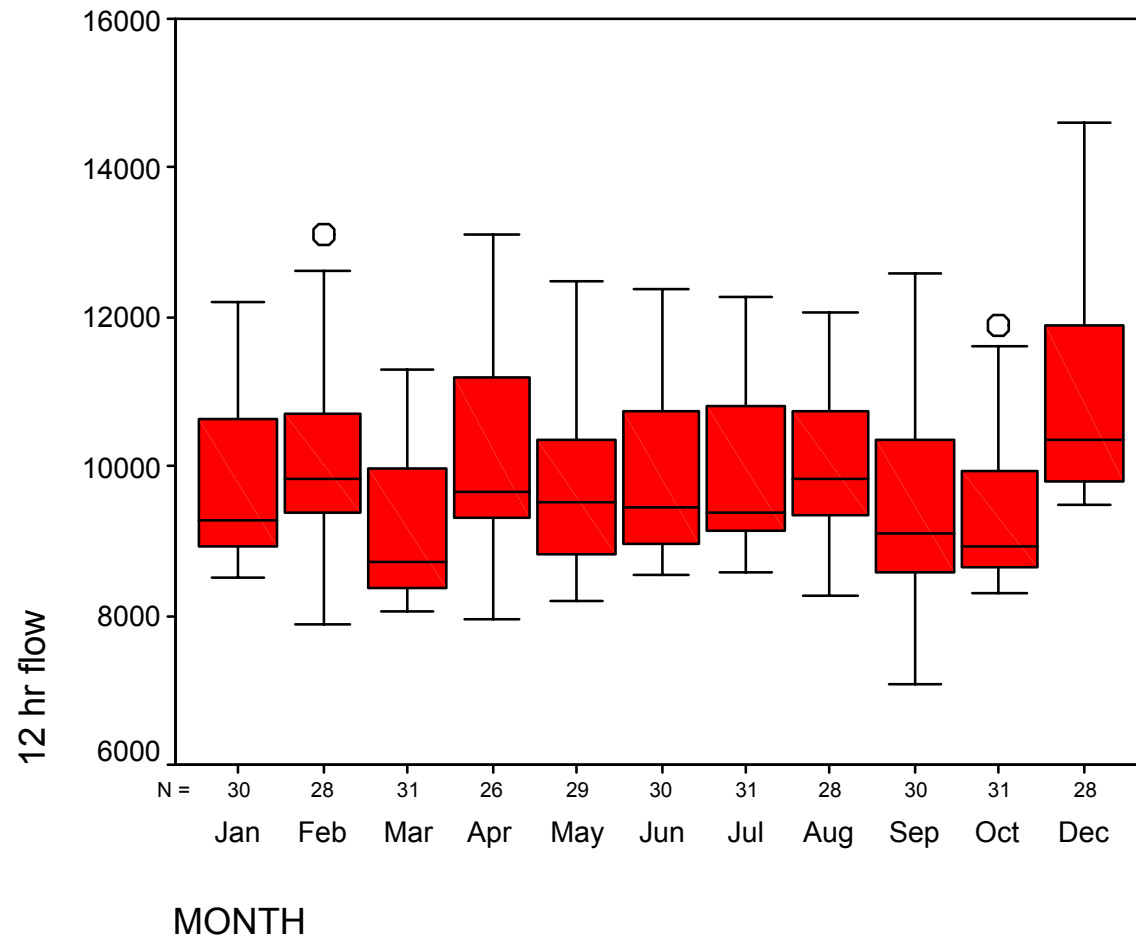


Figure B2 12-hour Traffic Flow for Tesco Bournemouth, by day of week

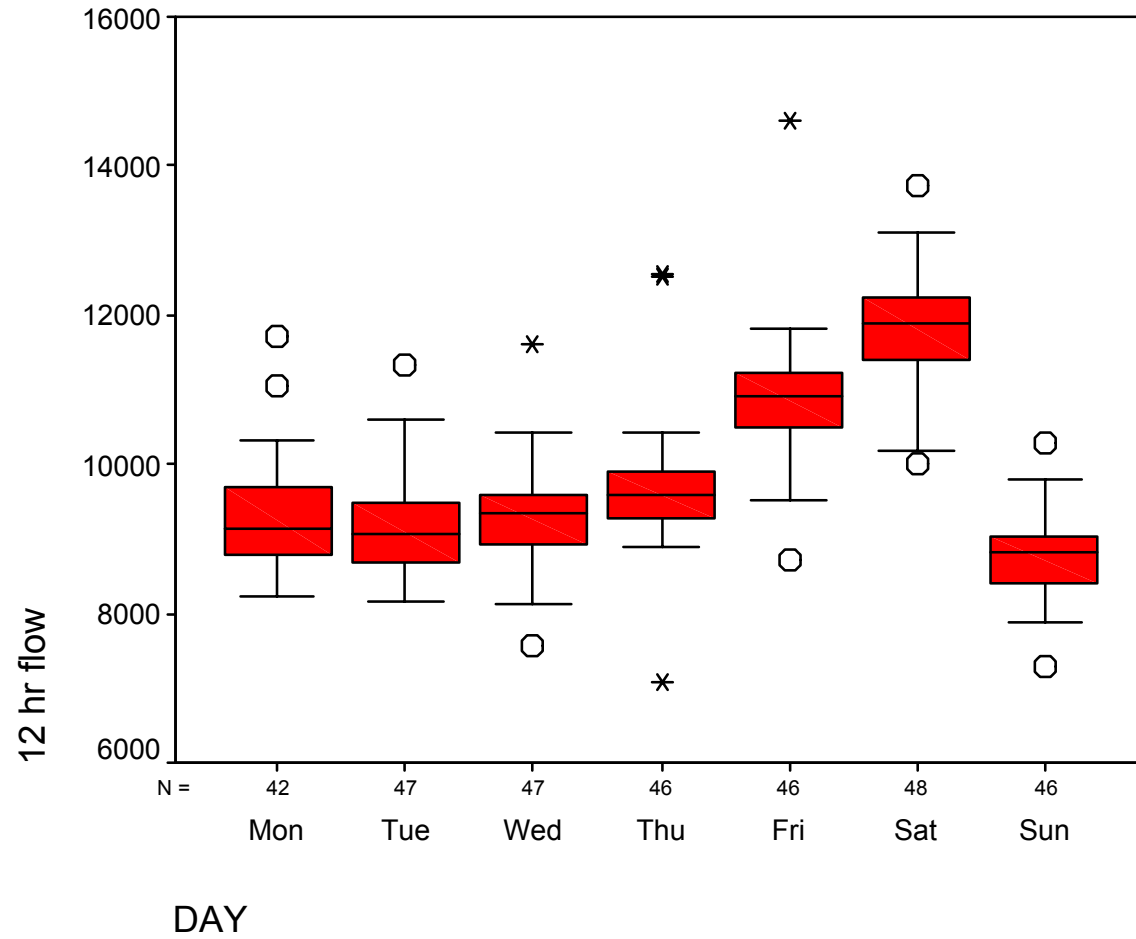


Figure B3 12-hour Traffic Flow for Tesco Poole, by month

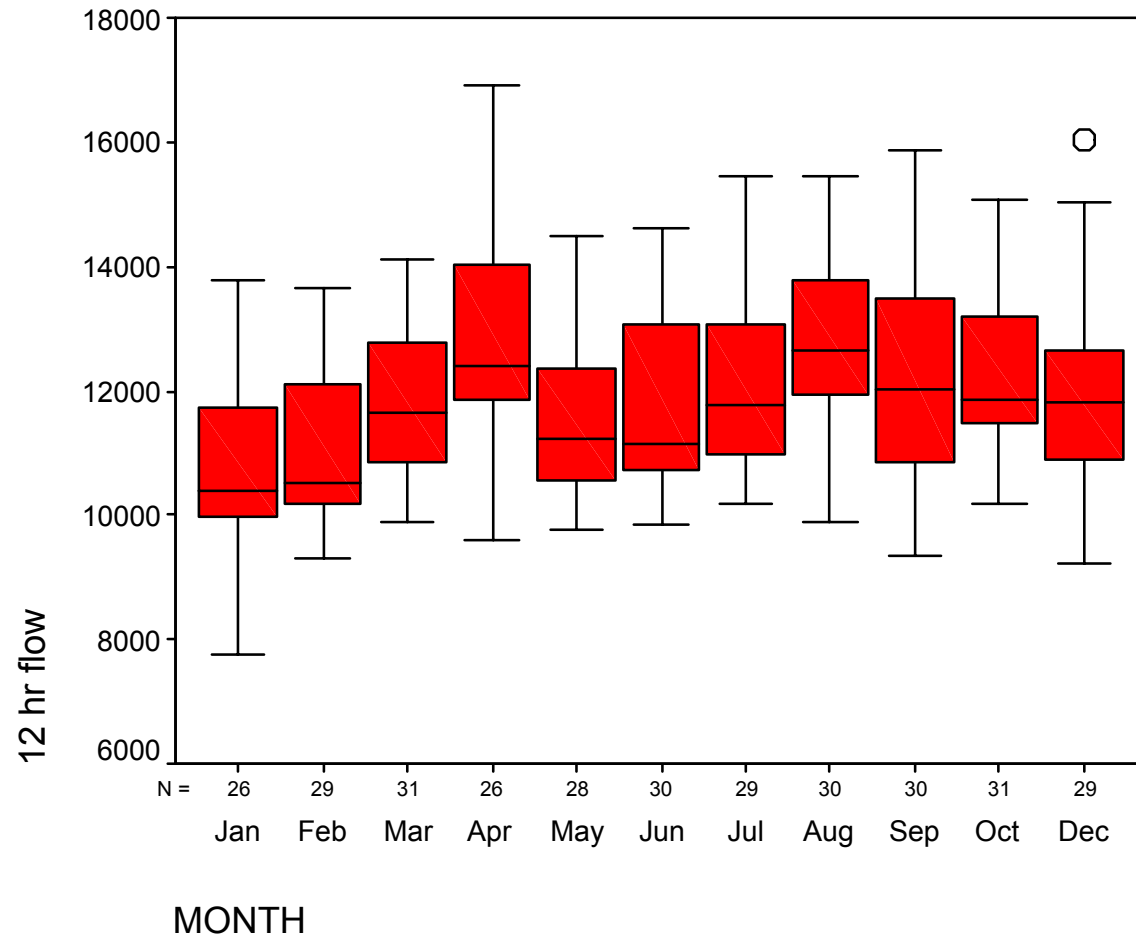


Figure B4 12-hour Traffic Flow for Tesco Poole, by day of week

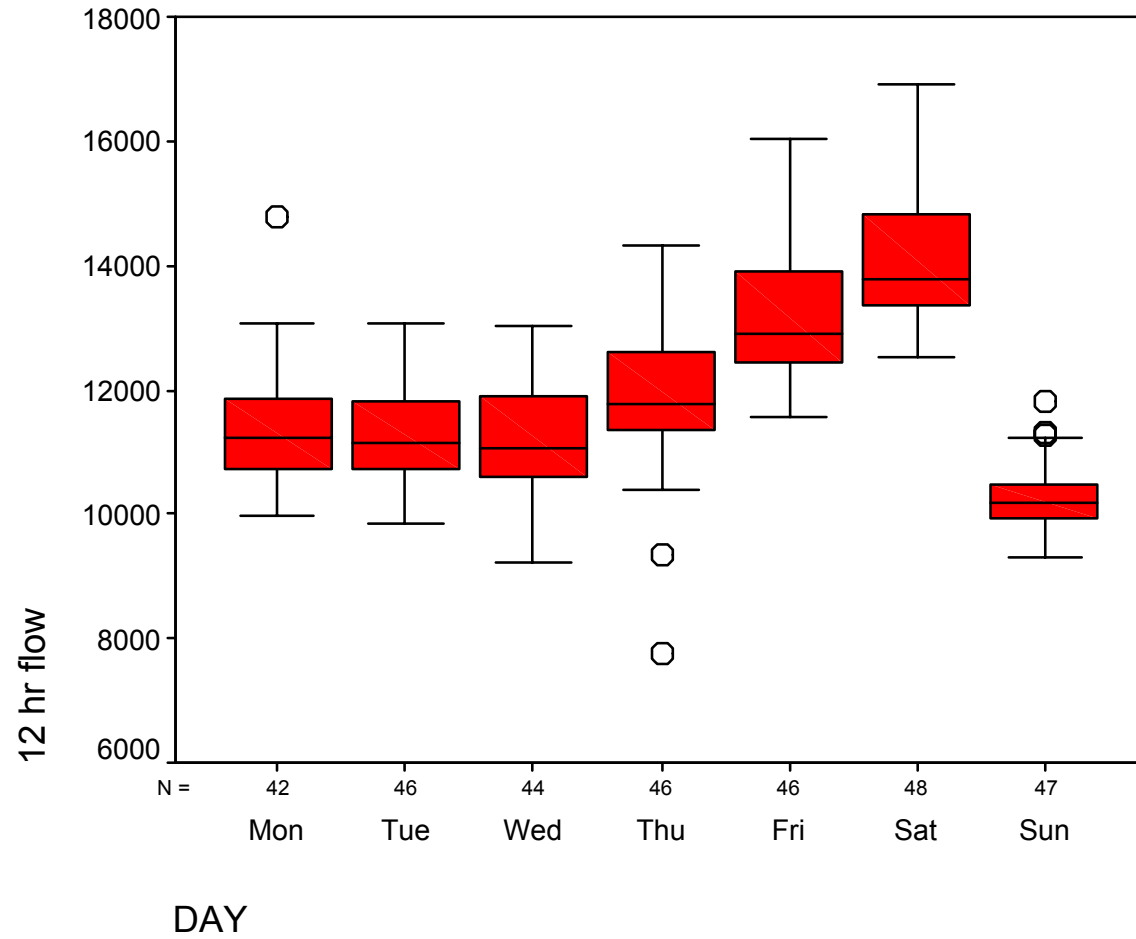


Figure B5 12-hour Traffic Flow for Asda Gosport, by month

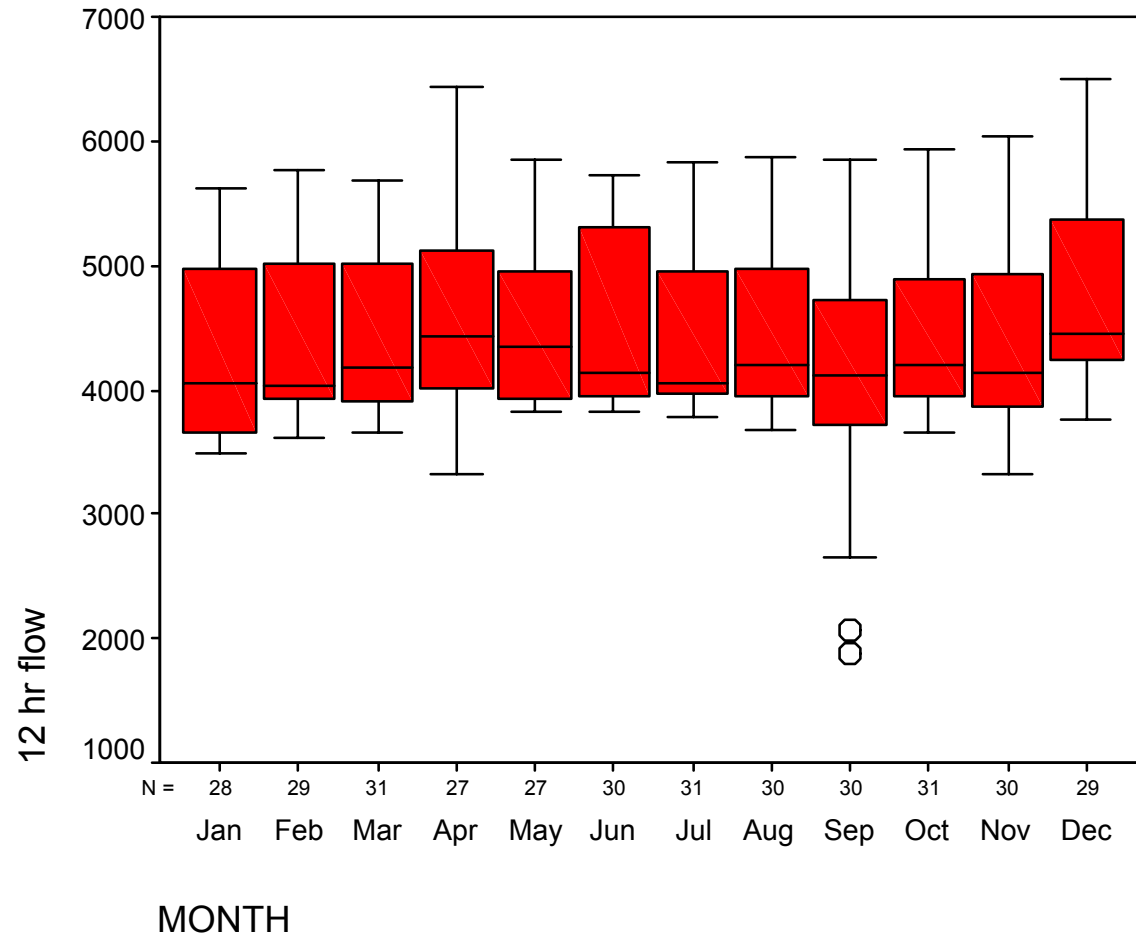


Figure B6 12-hour Traffic Flow for Asda Gosport, by day of week

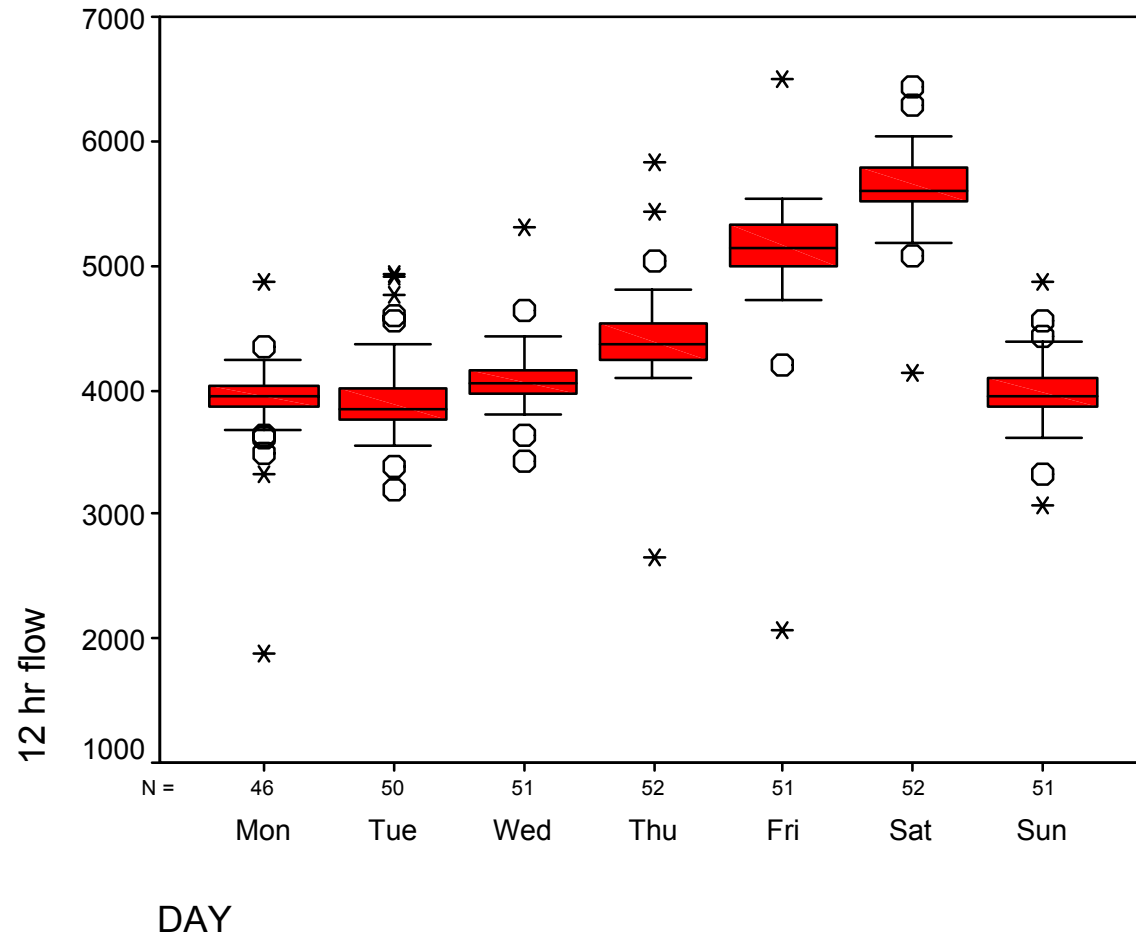


Figure B7 12-hour Traffic Flow for Southern Water, by month

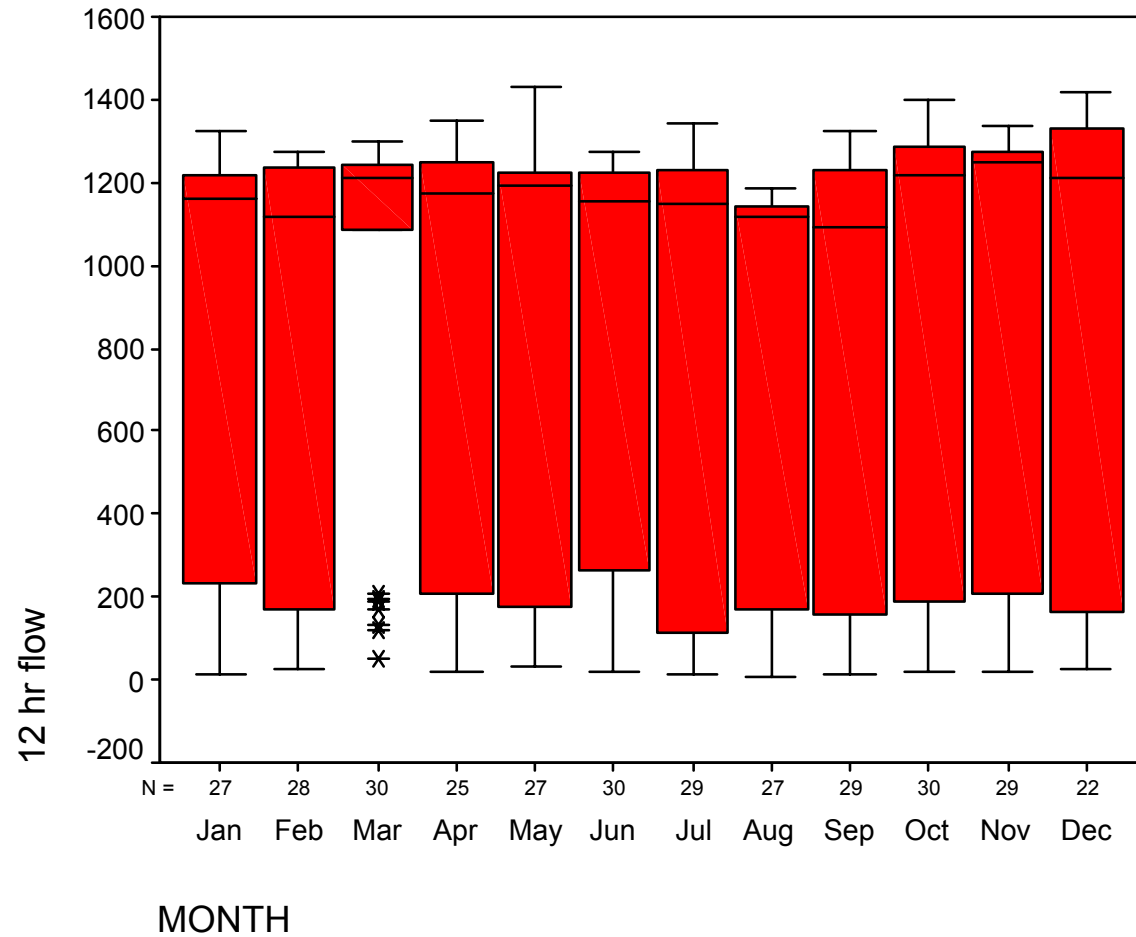


Figure B8 12-hour Traffic Flow for Southern Water, by day of week

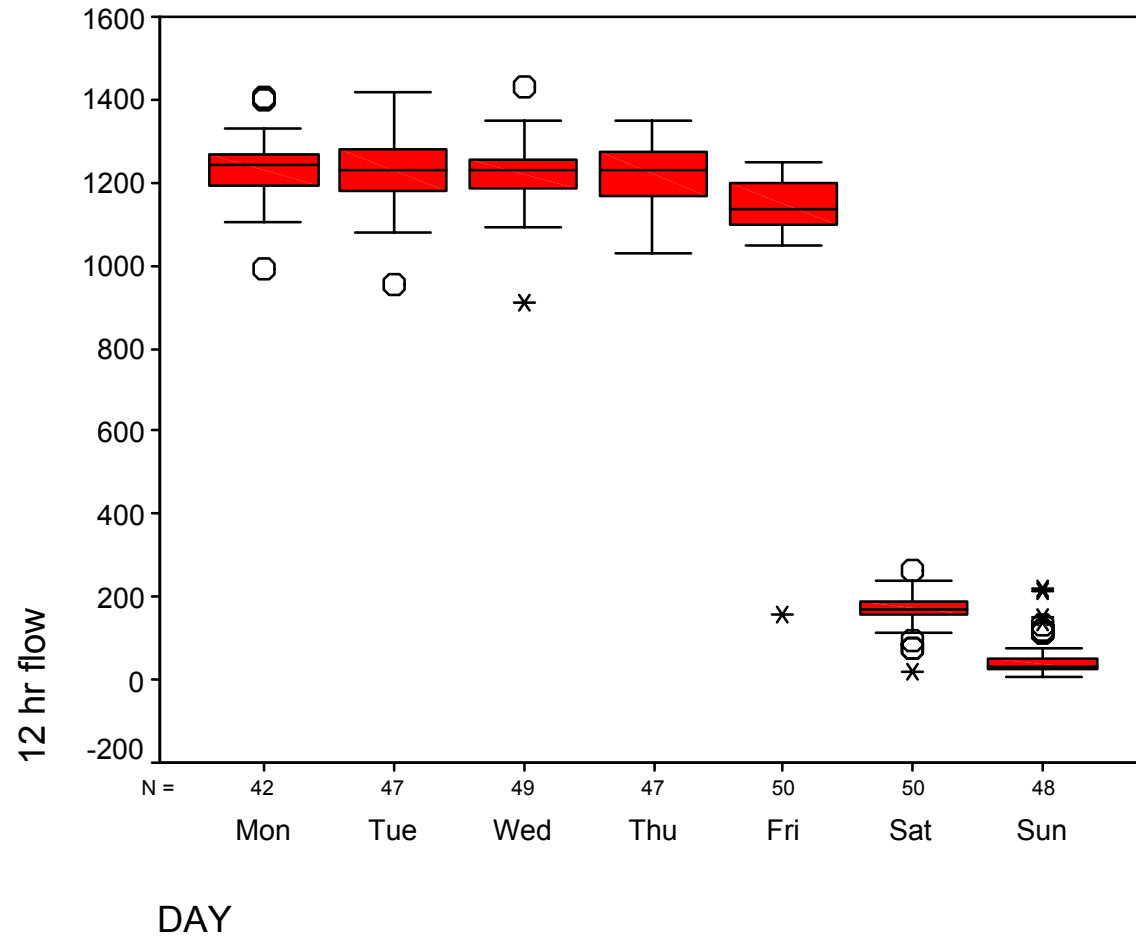


Figure B9 12-hour Traffic Flow for Dorset County Hospital, by month

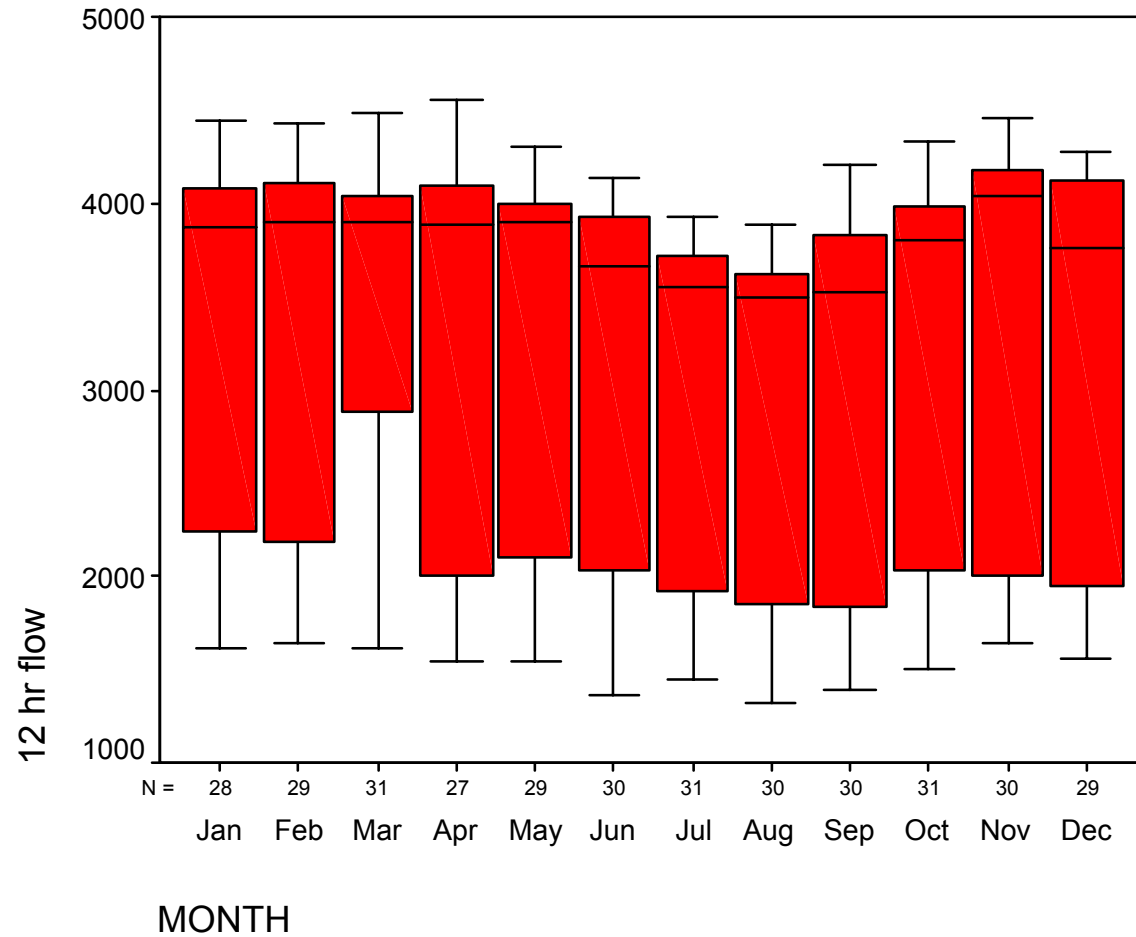


Figure B10 12-hour Traffic Flow for Dorset County Hospital, by day of week

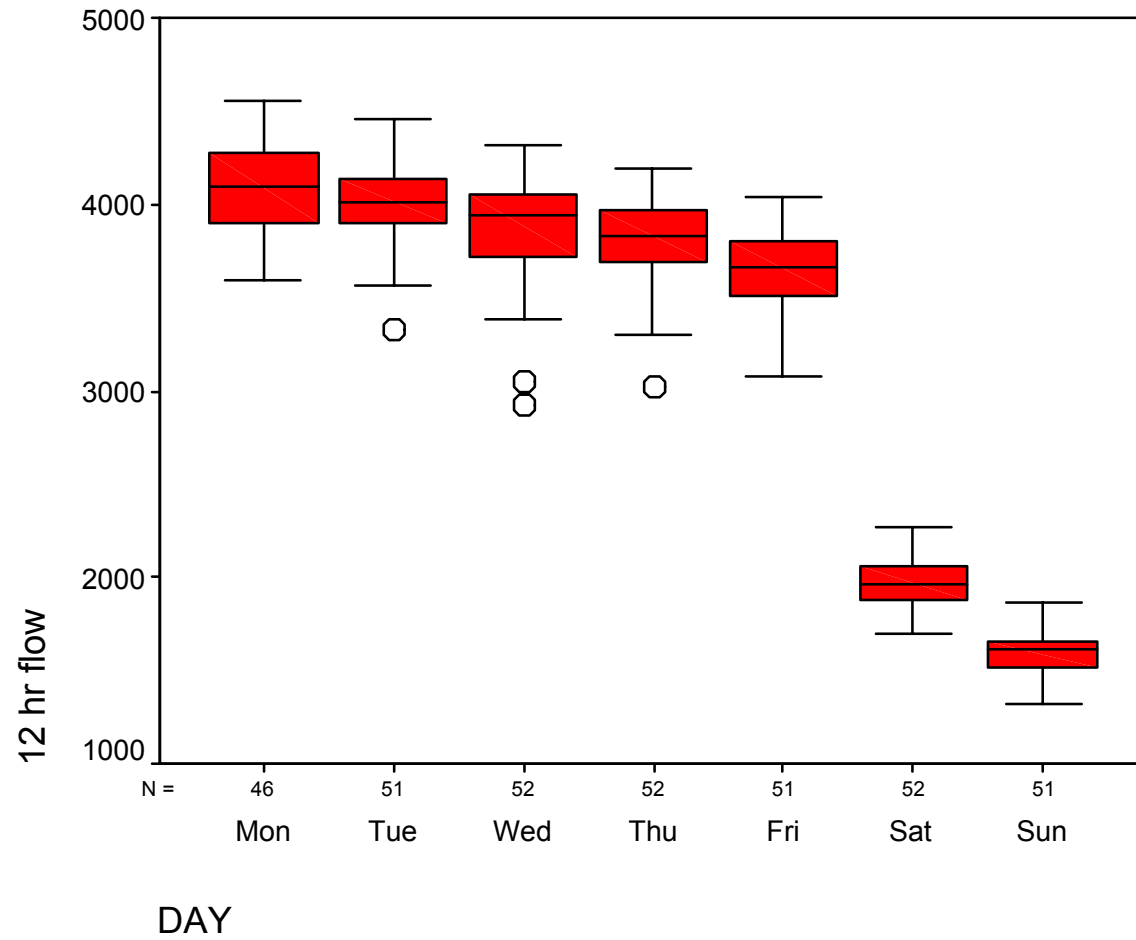


Figure B11 12-hour Traffic Flow for Badger Farm Ridge Way, by month

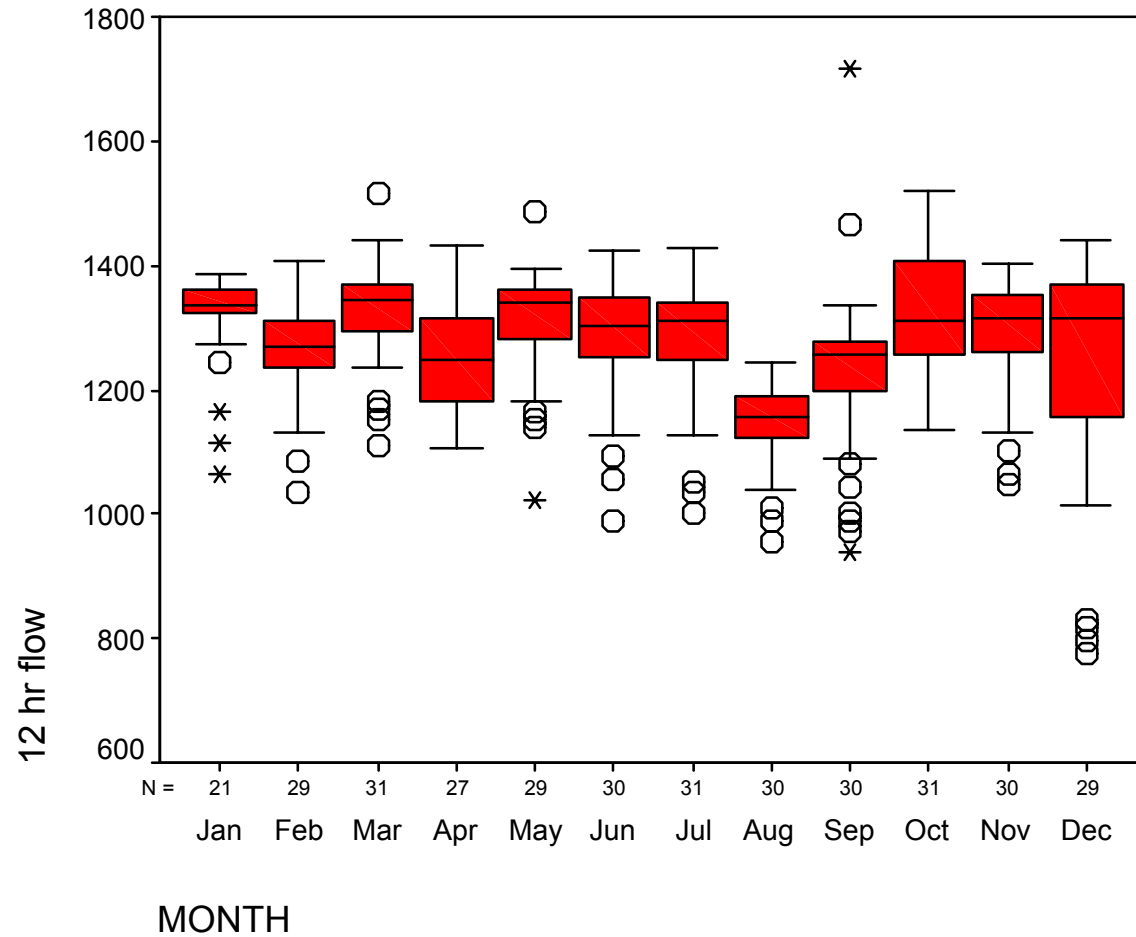


Figure B12 12-hour Traffic Flow for Badger Farm Ridge Way, by day of week

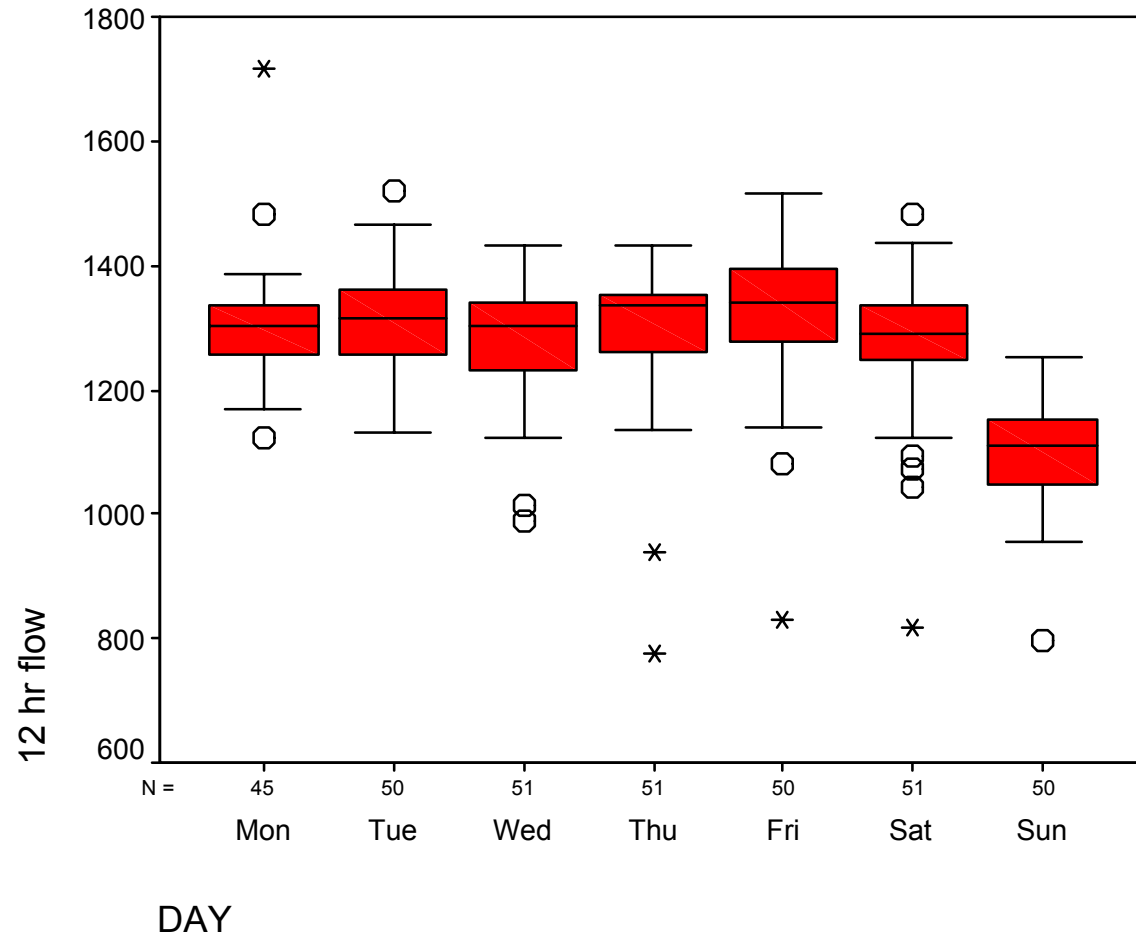


Figure B13 12-hour Traffic Flow for Badger Farm Meadow Way, by month

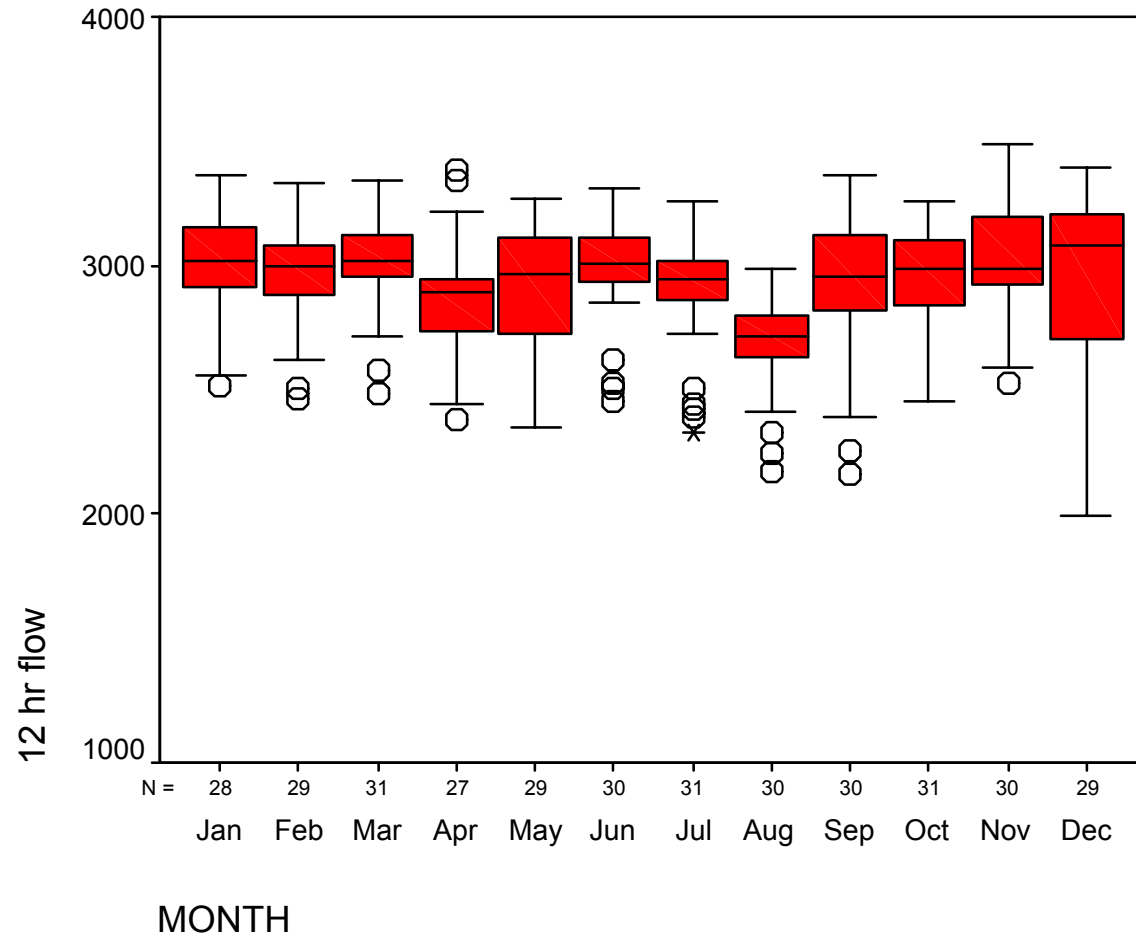


Figure B14 12-hour Traffic Flow for Badger Farm Meadow Way, by day of week

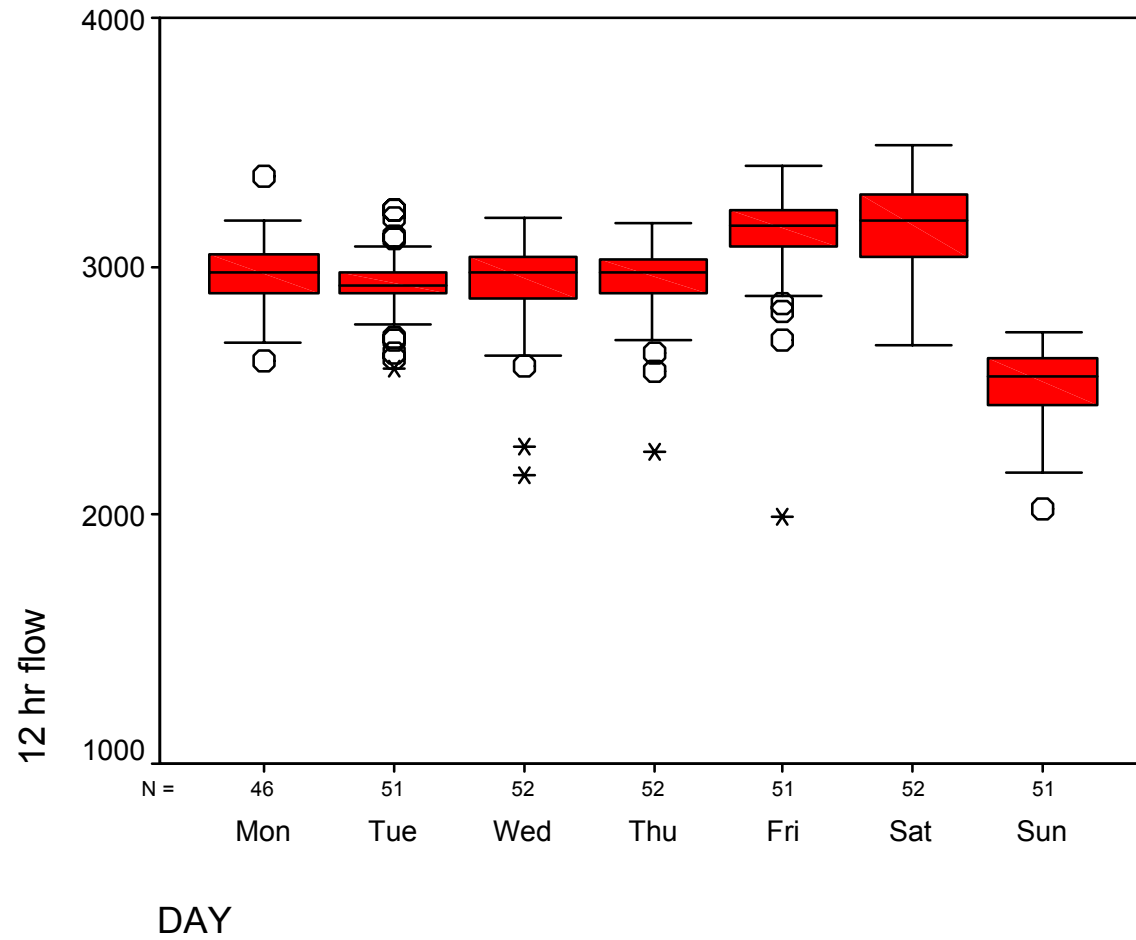


Figure B15 12-hour Traffic Flow for Bridport Golf Club, by month

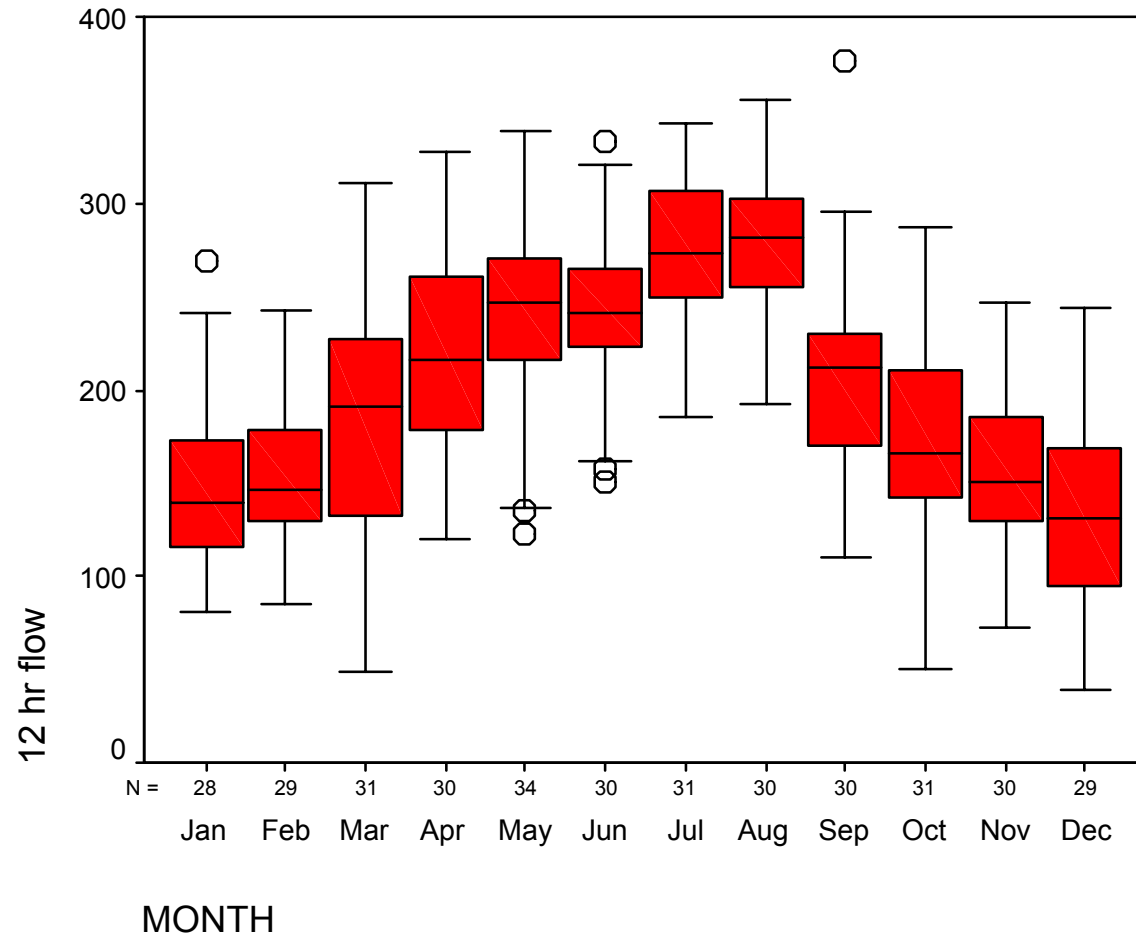


Figure B16 12-hour Traffic Flow for Bridport Golf Club, by day of week

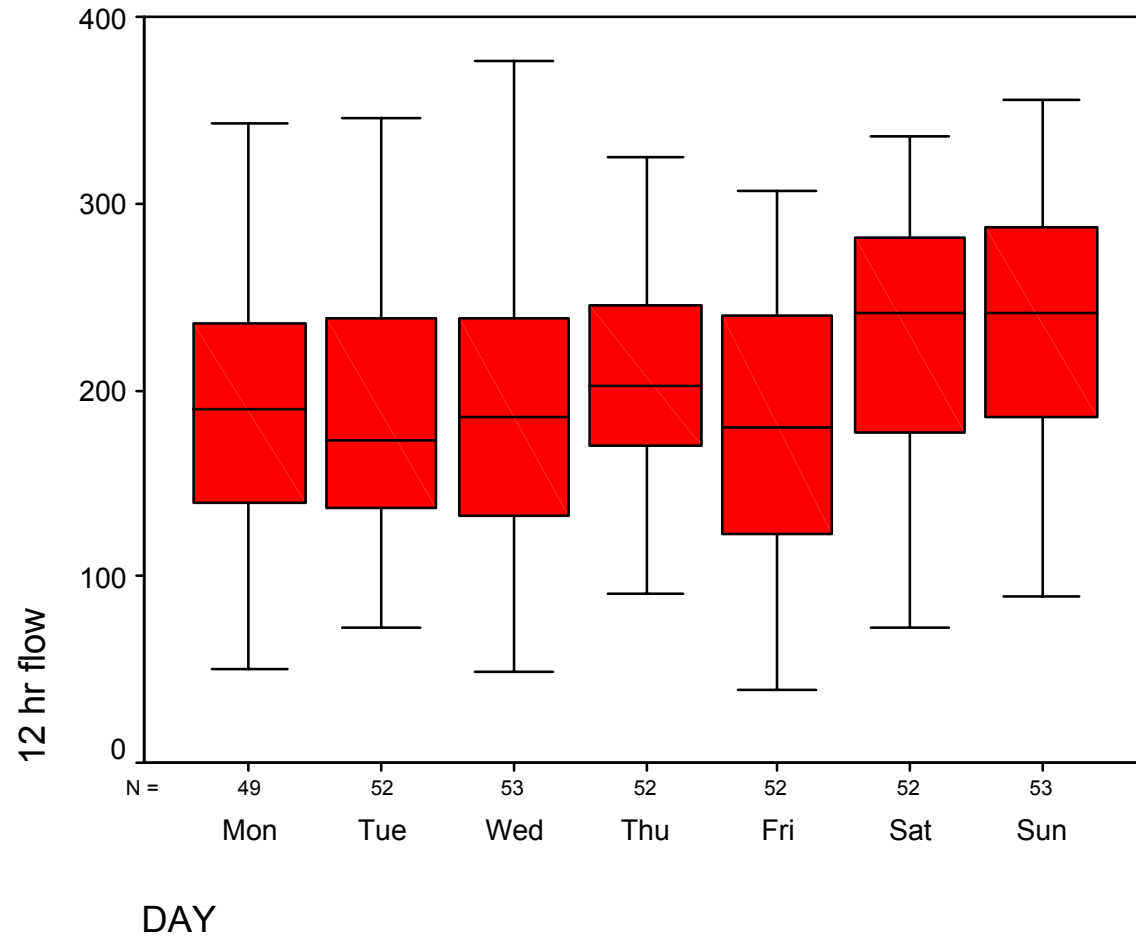


Table B1 Mean Weekday 12-hour traffic flow, by month

	site							
	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	9,589	-0.7%	10,579	-10.3%	4,149	-3.5%	1,196	-0.6%
Feb	9,876	2.2%	10,918	-7.5%	4,241	-1.4%	1,178	-2.1%
Mar	8,958	-7.3%	11,698	-0.9%	4,312	0.3%	1,215	1.1%
Apr	9,967	3.2%	12,604	6.8%	4,450	3.5%	1,221	1.5%
May	9,556	-1.1%	11,358	-3.7%	4,343	1.0%	1,222	1.6%
Jun	9,692	0.3%	11,538	-2.2%	4,392	2.1%	1,185	-1.5%
Jul	9,723	0.6%	12,066	2.3%	4,261	-0.9%	1,198	-0.4%
Aug	9,908	2.6%	12,766	8.2%	4,313	0.3%	1,128	-6.2%
Sep	9,308	-3.7%	12,120	2.7%	3,946	-8.2%	1,118	-7.1%
Oct	9,209	-4.7%	12,239	3.7%	4,281	-0.4%	1,248	3.8%
Nov	-	-	-	-	4,245	-1.3%	1,258	4.6%
Dec	10,805	11.8%	11,840	0.4%	4,722	9.8%	1,280	6.4%
Total	9,661		11,798		4,300		1,203	

	site							
	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	4,027	3.8%	1,343	3.3%	3,029	1.8%	135	-28.6%
Feb	4,005	3.3%	1,286	-1.1%	3,009	1.2%	143	-24.6%
Mar	3,965	2.2%	1,352	4.0%	3,034	2.0%	156	-17.7%
Apr	4,038	4.1%	1,276	-1.9%	2,899	-2.5%	207	8.9%
May	3,925	1.2%	1,336	2.7%	2,980	0.2%	231	21.7%
Jun	3,764	-3.0%	1,320	1.5%	3,029	1.9%	236	24.4%
Jul	3,689	-4.9%	1,326	1.9%	2,955	-0.6%	264	39.2%
Aug	3,577	-7.8%	1,168	-10.2%	2,754	-7.4%	270	42.3%
Sep	3,678	-5.2%	1,256	-3.4%	2,940	-1.1%	193	2.0%
Oct	3,908	0.8%	1,342	3.2%	2,995	0.7%	157	-17.1%
Nov	4,103	5.8%	1,320	1.5%	3,047	2.5%	149	-21.7%
Dec	3,897	0.5%	1,284	-1.2%	3,007	1.1%	120	-36.6%
Total	3,879		1,300		2,974		190	

Table B2 Mean Saturday 12-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	12,067	2.0%	13,273	-5.8%	5,552	-1.2%	187	11.7%
Feb	12,230	3.4%	13,397	-4.9%	5,587	-0.6%	155	-7.0%
Mar	10,916	-7.7%	13,609	-3.4%	5,576	-0.8%	192	15.0%
Apr	12,116	2.4%	14,837	5.3%	5,703	1.4%	185	10.7%
May	11,502	-2.8%	13,711	-2.7%	5,564	-1.0%	173	3.6%
Jun	11,977	1.2%	13,822	-1.9%	5,602	-0.3%	207	23.7%
Jul	11,858	0.2%	14,380	2.1%	5,602	-0.3%	132	-21.2%
Aug	11,767	-0.5%	15,121	7.3%	5,574	-0.8%	165	-1.5%
Sep	11,264	-4.8%	14,236	1.0%	5,314	-5.5%	118	-29.6%
Oct	11,629	-1.7%	14,860	5.5%	5,786	2.9%	183	9.6%
Nov	.	-	.	-	5,706	1.5%	186	11.1%
Dec	12,653	7.0%	13,583	-3.6%	5,888	4.7%	145	-13.5%
Total	11,829		14,091		5,622		167	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	2,163	9.9%	1,328	4.3%	3,271	4.4%	160	-30.8%
Feb	2,115	7.5%	1,294	1.7%	3,151	0.6%	173	-25.0%
Mar	2,166	10.1%	1,347	5.8%	3,291	5.1%	234	1.1%
Apr	1,993	1.3%	1,264	-0.7%	3,061	-2.3%	276	19.4%
May	1,973	0.3%	1,316	3.3%	3,078	-1.7%	268	16.0%
Jun	1,929	-2.0%	1,275	0.1%	3,192	1.9%	266	14.9%
Jul	1,883	-4.3%	1,272	-0.1%	3,105	-0.9%	294	27.4%
Aug	1,783	-9.4%	1,121	-11.9%	2,744	-12.4%	313	35.5%
Sep	1,818	-7.6%	1,219	-4.2%	3,065	-2.2%	267	15.3%
Oct	1,972	0.2%	1,388	9.1%	3,167	1.1%	197	-15.0%
Nov	1,912	-2.8%	1,311	3.0%	3,354	7.1%	148	-36.0%
Dec	1,960	-0.4%	1,192	-6.4%	3,150	0.5%	162	-30.0%
Total	1,968		1,273		3,132		231	

Table B3 Mean Sunday 12-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	8,915	1.3%	9,606	-6.5%	3,799	-4.4%	121	137.5%
Feb	9,031	2.6%	9,877	-3.9%	3,890	-2.1%	109	113.0%
Mar	8,362	-5.0%	10,114	-1.6%	3,782	-4.9%	102	99.8%
Apr	8,542	-2.9%	10,377	1.0%	3,782	-4.8%	32	-36.8%
May	8,587	-2.4%	10,077	-1.9%	3,981	0.2%	41	-19.2%
Jun	8,800	0.0%	10,185	-0.9%	3,996	0.5%	46	-10.9%
Jul	8,834	0.4%	10,561	2.8%	3,975	0.0%	50	-2.1%
Aug	8,727	-0.8%	10,479	2.0%	3,913	-1.6%	29	-43.2%
Sep	8,362	-5.0%	10,484	2.0%	3,874	-2.5%	21	-59.4%
Oct	8,561	-2.7%	10,479	2.0%	4,157	4.6%	25	-51.8%
Nov	.	-	.	-	4,070	2.4%	24	-52.5%
Dec	9,811	11.5%	10,593	3.1%	4,342	9.2%	27	-47.8%
Total	8,800		10,276		3,975		51	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,731	8.3%	1,114	1.4%	2,569	1.7%	192	-16.6%
Feb	1,745	9.2%	1,107	0.7%	2,572	1.8%	179	-22.4%
Mar	1,670	4.5%	1,153	4.9%	2,630	4.1%	276	19.7%
Apr	1,627	1.8%	1,137	3.5%	2,499	-1.0%	249	8.4%
May	1,583	-1.0%	1,124	2.3%	2,591	2.6%	261	13.5%
Jun	1,472	-7.9%	1,067	-2.8%	2,524	0.0%	252	9.3%
Jul	1,524	-4.7%	1,073	-2.3%	2,416	-4.3%	275	19.7%
Aug	1,437	-10.1%	998	-9.1%	2,289	-9.3%	297	29.2%
Sep	1,484	-7.2%	1,074	-2.2%	2,511	-0.6%	209	-9.4%
Oct	1,575	-1.4%	1,172	6.7%	2,592	2.7%	216	-6.1%
Nov	1,674	4.7%	1,086	-1.1%	2,597	2.8%	187	-18.6%
Dec	1,666	4.3%	1,075	-2.1%	2,524	-0.1%	165	-28.2%
Total	1,598		1,099		2,525		230	

Table B4 Mean 12-hour traffic flow, by day of week

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	9,281	-3.9%	11,406	-3.3%	3,912	-9.0%	1,231	2.3%
Tuesday	9,167	-5.1%	11,239	-4.7%	3,930	-8.6%	1,227	2.0%
Wednesday	9,318	-3.6%	11,203	-5.0%	4,091	-4.8%	1,220	1.4%
Thursday	9,663	0.0%	11,880	0.7%	4,406	2.5%	1,219	1.3%
Friday	10,862	12.4%	13,203	11.9%	5,113	18.9%	1,125	-6.4%
Saturday	11,829	22.4%	14,091	19.4%	5,622	30.7%	167	-86.1%
Sunday	8,800	-8.9%	10,276	-12.9%	3,975	-7.6%	51	-95.8%
Weekday	9,661		11,798		4,300		1,203	
Total	9,861		11,919		4,448		881	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	4,087	5.4%	1,303	0.2%	2,962	-0.4%	186	-1.8%
Tuesday	4,015	3.5%	1,307	0.5%	2,923	-1.7%	188	-0.8%
Wednesday	3,864	-0.4%	1,277	-1.8%	2,924	-1.7%	187	-1.2%
Thursday	3,809	-1.8%	1,294	-0.5%	2,940	-1.1%	206	8.6%
Friday	3,642	-6.1%	1,322	1.7%	3,121	4.9%	180	-5.0%
Saturday	1,968	-49.3%	1,273	-2.1%	3,132	5.3%	231	21.9%
Sunday	1,598	-58.8%	1,099	-15.5%	2,525	-15.1%	230	21.4%
Weekday	3,879		1,300		2,974		190	
Total	3,271		1,267		2,933		202	

Appendix C

Analysis of AM Peak-hour Traffic Flows

Figure C1	AM peak-hour Traffic Flow for Tesco Bournemouth, by month
Figure C2	AM peak-hour Traffic Flow for Tesco Bournemouth, by day of week
Figure C3	AM peak-hour Traffic Flow for Tesco Poole, by month
Figure C4	AM peak-hour Traffic Flow for Tesco Poole, by day of week
Figure C5	AM peak-hour Traffic Flow for Asda Gosport, by month
Figure C6	AM peak-hour Traffic Flow for Asda Gosport, by day of week
Figure C7	AM peak-hour Traffic Flow for Southern Water, by month
Figure C8	AM peak-hour Traffic Flow for Southern Water, by day of week
Figure C9	AM peak-hour Traffic Flow for Dorset County Hospital, by month
Figure C10	AM peak-hour Traffic Flow for Dorset County Hospital, by day of week
Figure C11	AM peak-hour Traffic Flow for Badger Farm Ridge Way, by month
Figure C12	AM peak-hour Traffic Flow for Badger Farm Ridge Way, by day of week
Figure C13	AM peak-hour Traffic Flow for Badger Farm Meadow Way, by month
Figure C14	AM peak-hour Traffic Flow for Badger Farm Meadow Way, by day of week
Figure C15	AM peak-hour Traffic Flow for Bridport Golf Club, by month
Figure C16	AM peak-hour Traffic Flow for Bridport Golf Club, by day of week
Table C1	Occurrence of AM peak-hour for Tesco Bournemouth
Table C2	Occurrence of AM peak-hour for Tesco Poole
Table C3	Occurrence of AM peak-hour for Asda Gosport
Table C4	Occurrence of AM peak-hour for Southern Water
Table C5	Occurrence of AM peak-hour for Dorset County Hospital
Table C6	Occurrence of AM peak-hour for Badger Farm Ridge Way
Table C7	Occurrence of AM peak-hour for Badger Farm Meadow Way
Table C8	Occurrence of AM peak-hour for Bridport Golf Club
Table C9	Mean Weekday AM peak-hour Traffic Flow, by month
Table C10	Mean Saturday AM peak-hour Traffic Flow, by month
Table C11	Mean Sunday AM peak-hour Traffic Flow, by month
Table C12	Mean AM peak-hour Traffic Flow, by day of week

Figure C1 AM Peak-hour Traffic Flow for Tesco Bournemouth, by month

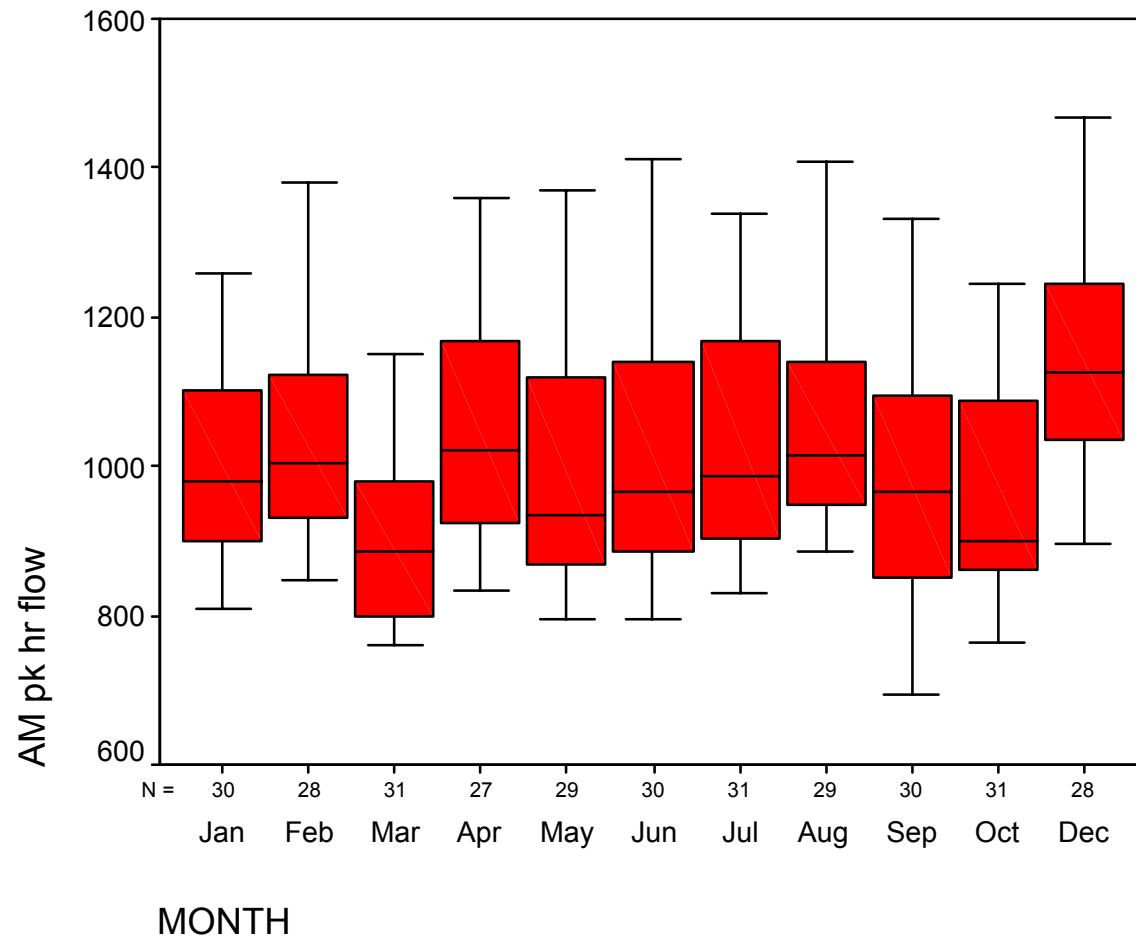


Figure C2 AM Peak-hour Traffic Flow for Tesco Bournemouth, by day of week

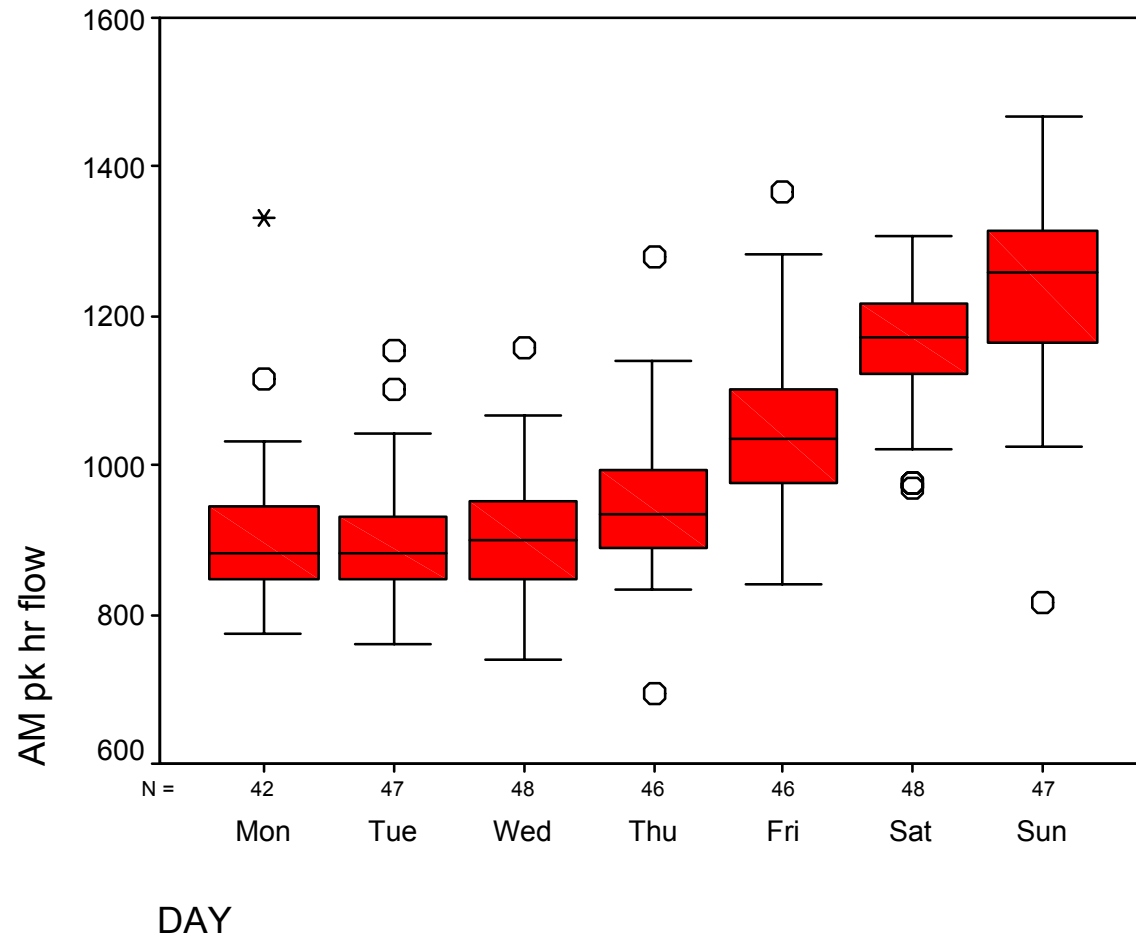


Figure C3 AM Peak-hour Traffic Flow for Tesco Poole, by month

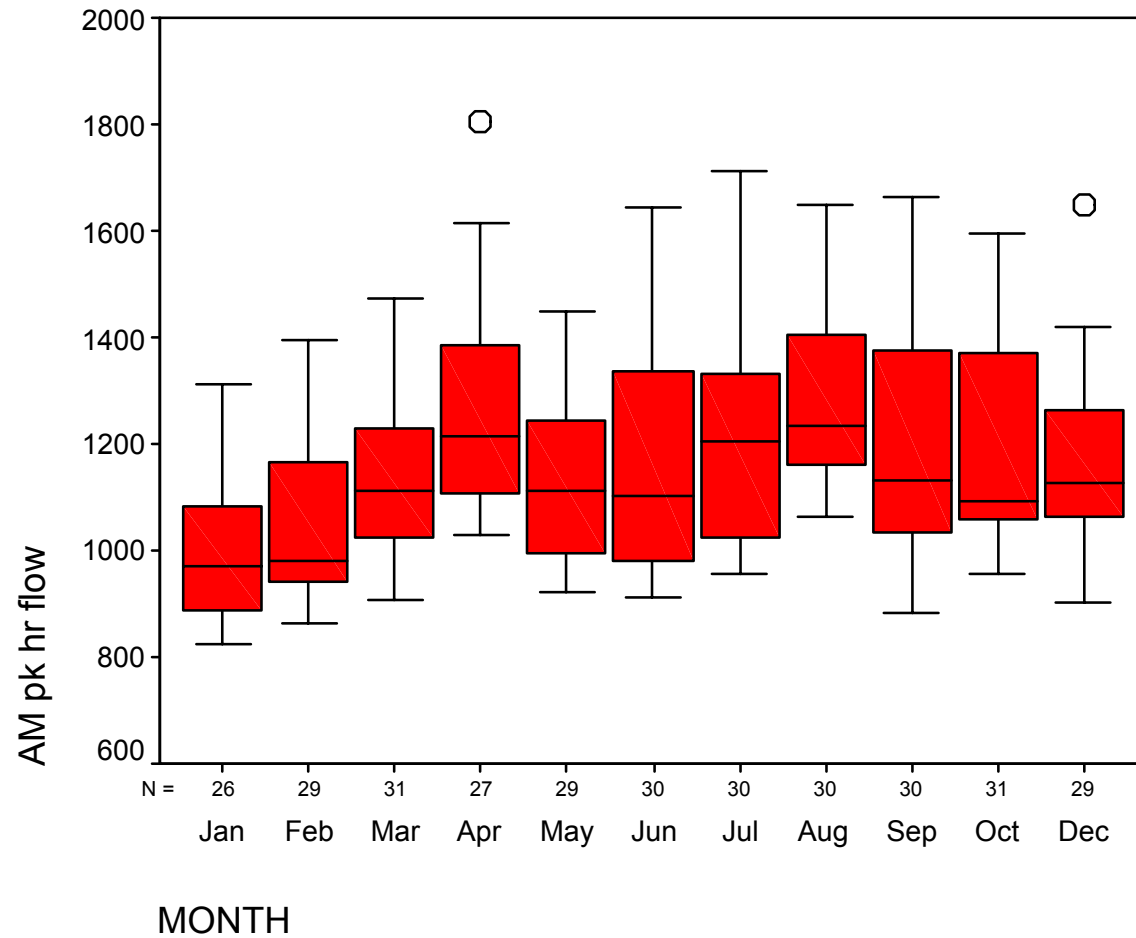


Figure C4 AM Peak-hour Traffic Flow for Tesco Poole, by day of week

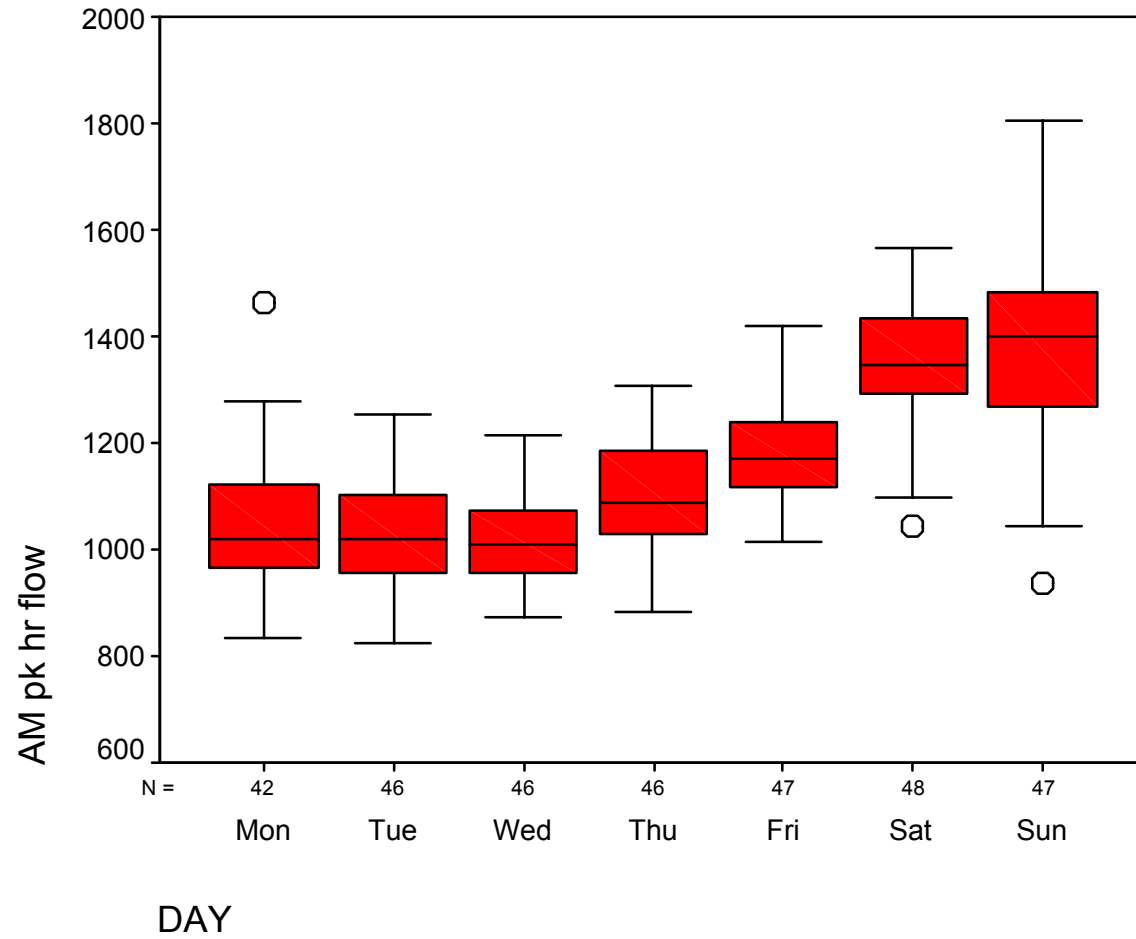


Figure C5 AM Peak-hour Traffic Flow for Asda Gosport, by month

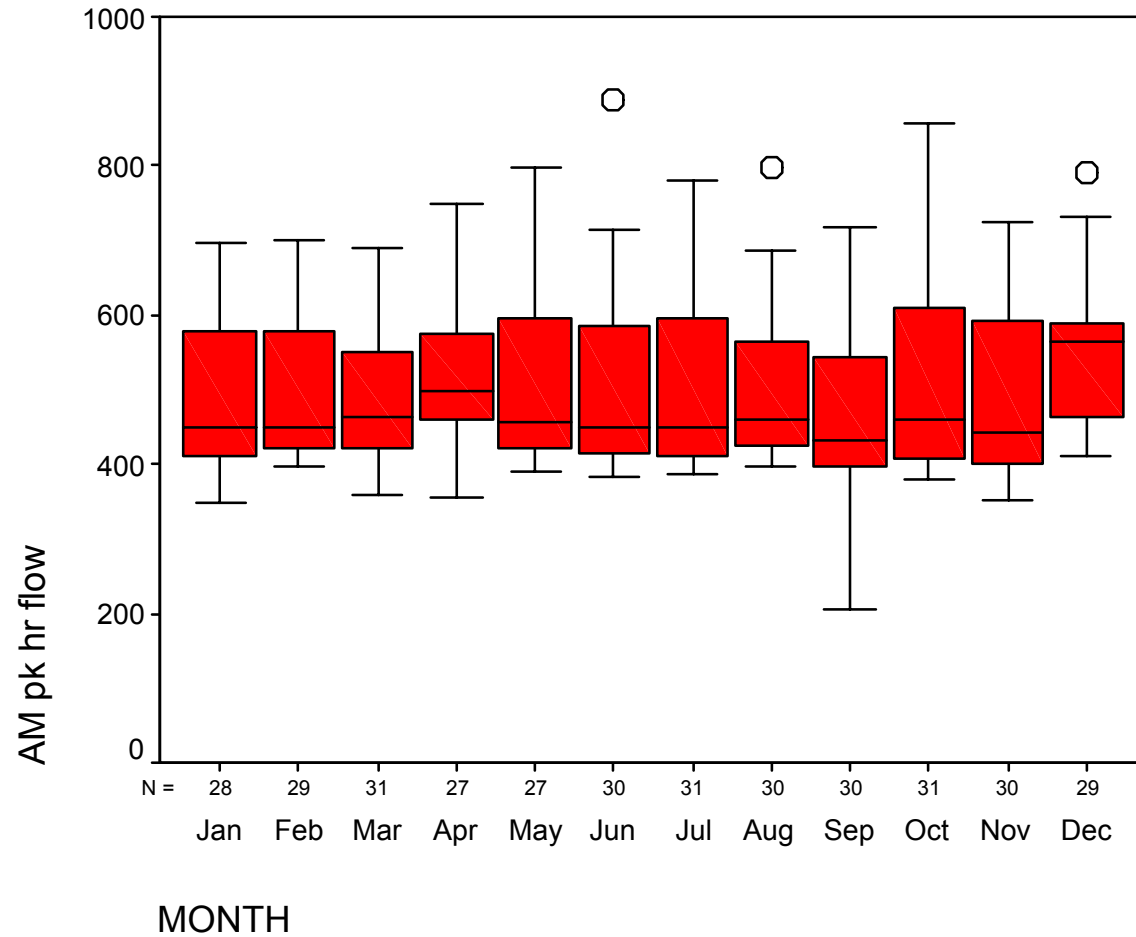


Figure C6 AM Peak-hour Traffic Flow for Asda Gosport, by day of week

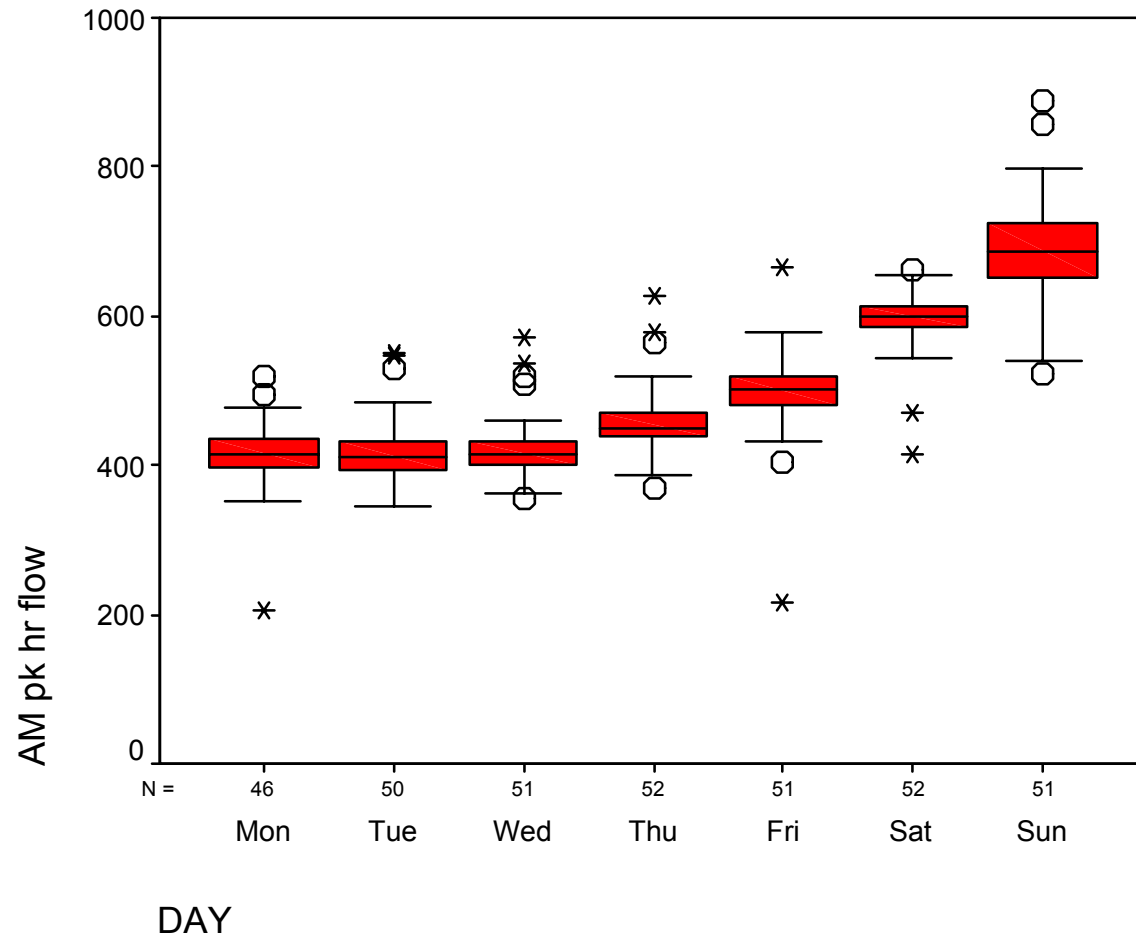


Figure C7 AM Peak-hour Traffic Flow for Southern Water, by month

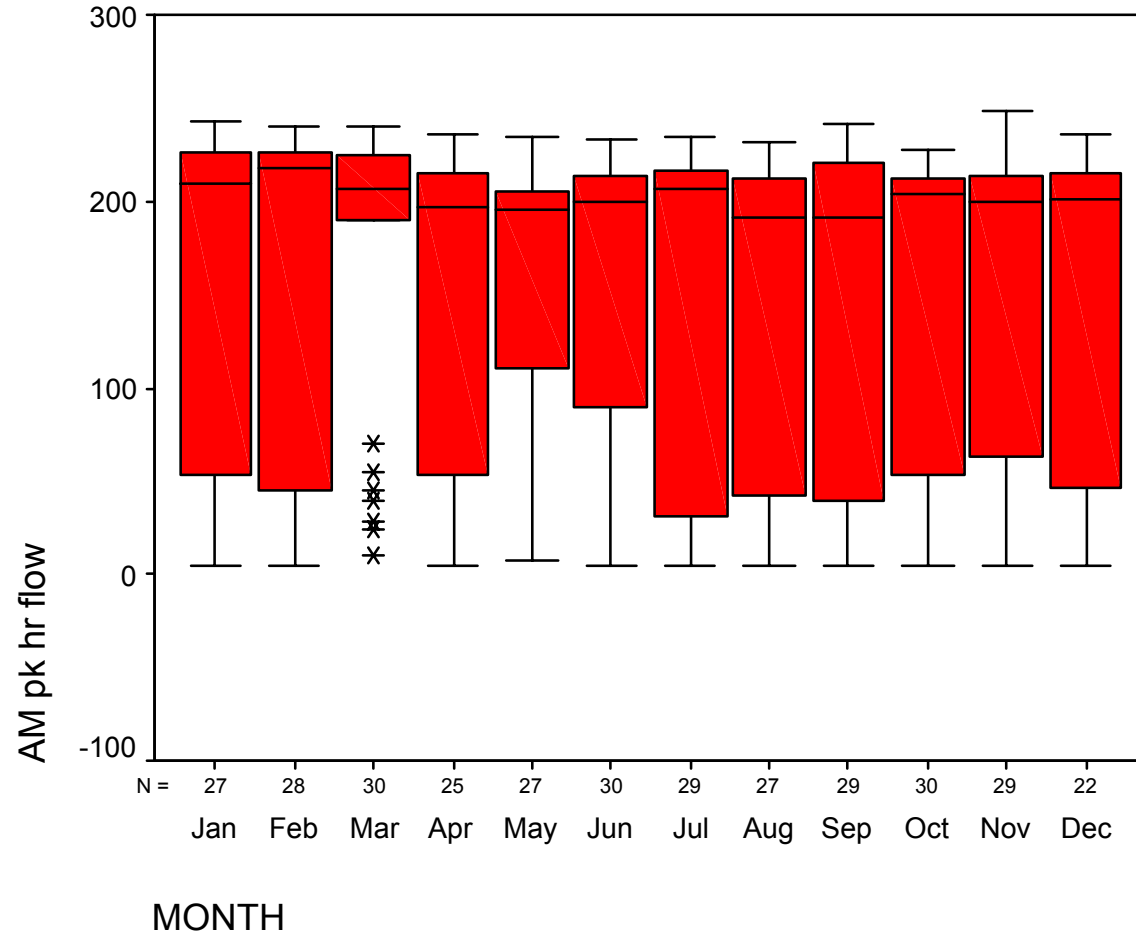


Figure C8 AM Peak-hour Traffic Flow for Southern Water, by day of week

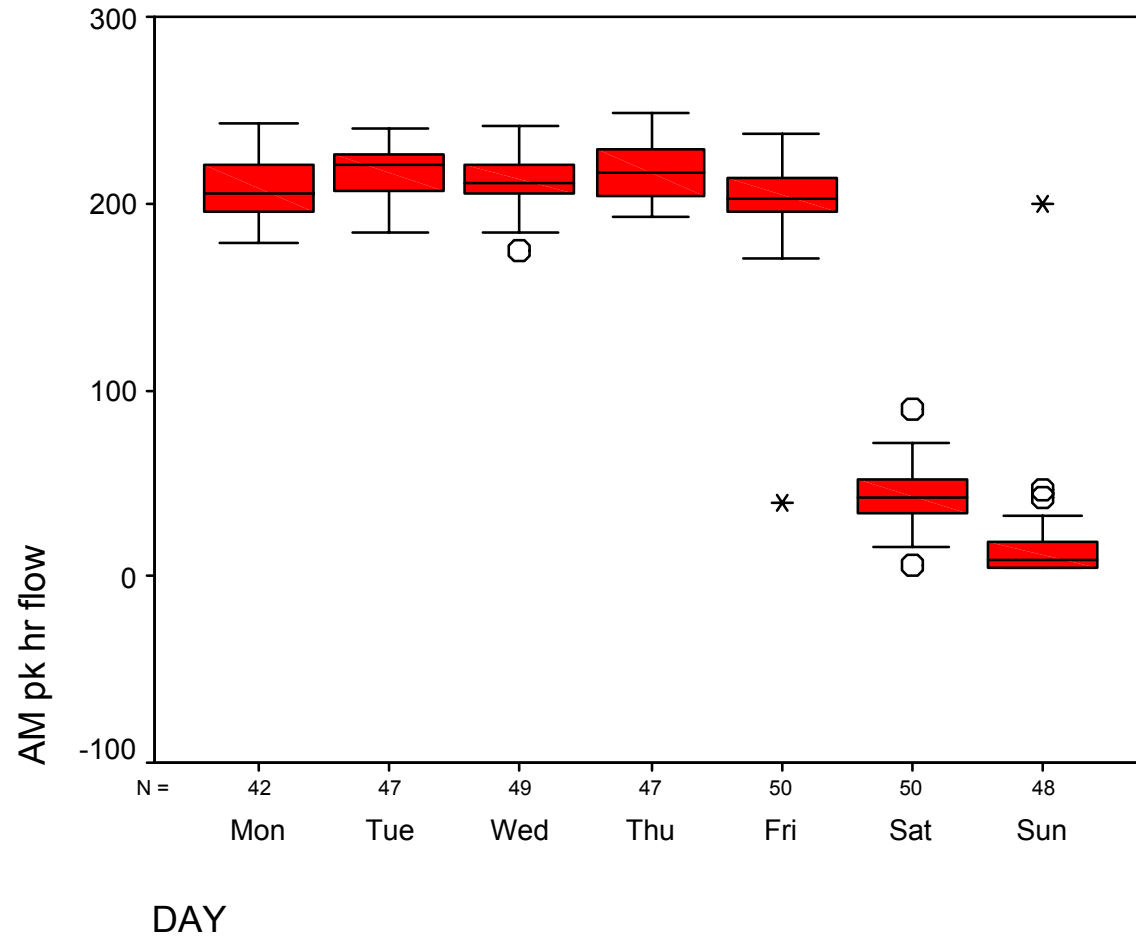


Figure C9 AM Peak-hour Traffic Flow for Dorset County Hospital, by month

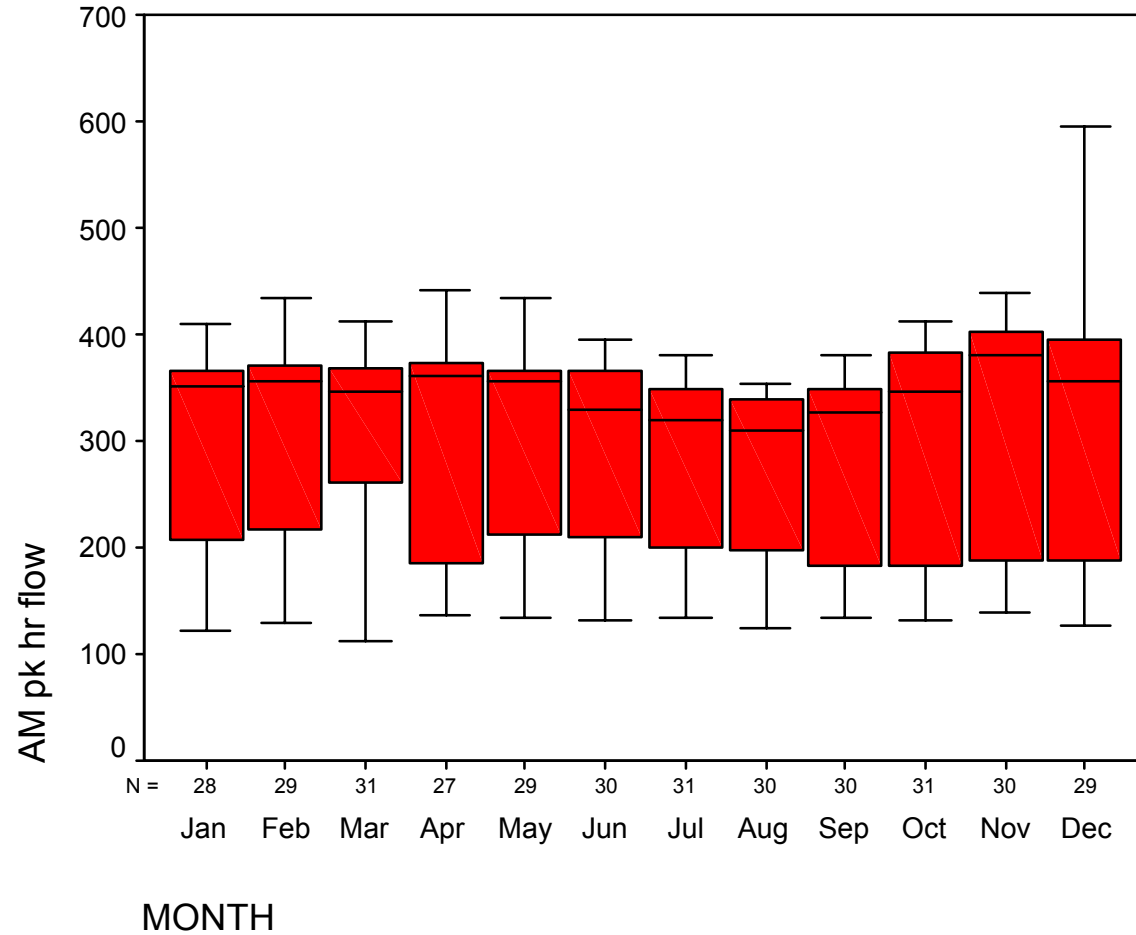


Figure C10 AM Peak-hour Traffic Flow for Dorset County Hospital, by day of week

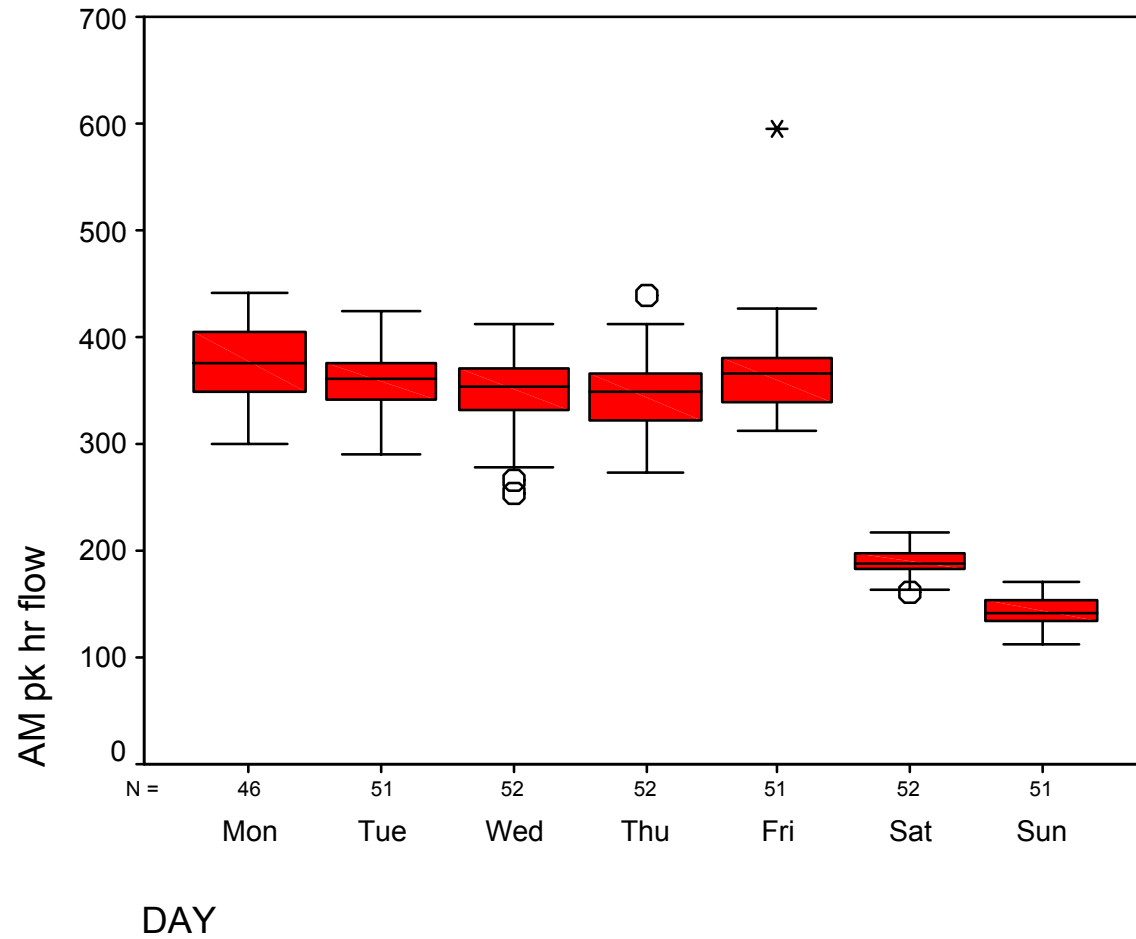


Figure C11 AM Peak-hour Traffic Flow for Badger Farm Ridge Way, by month

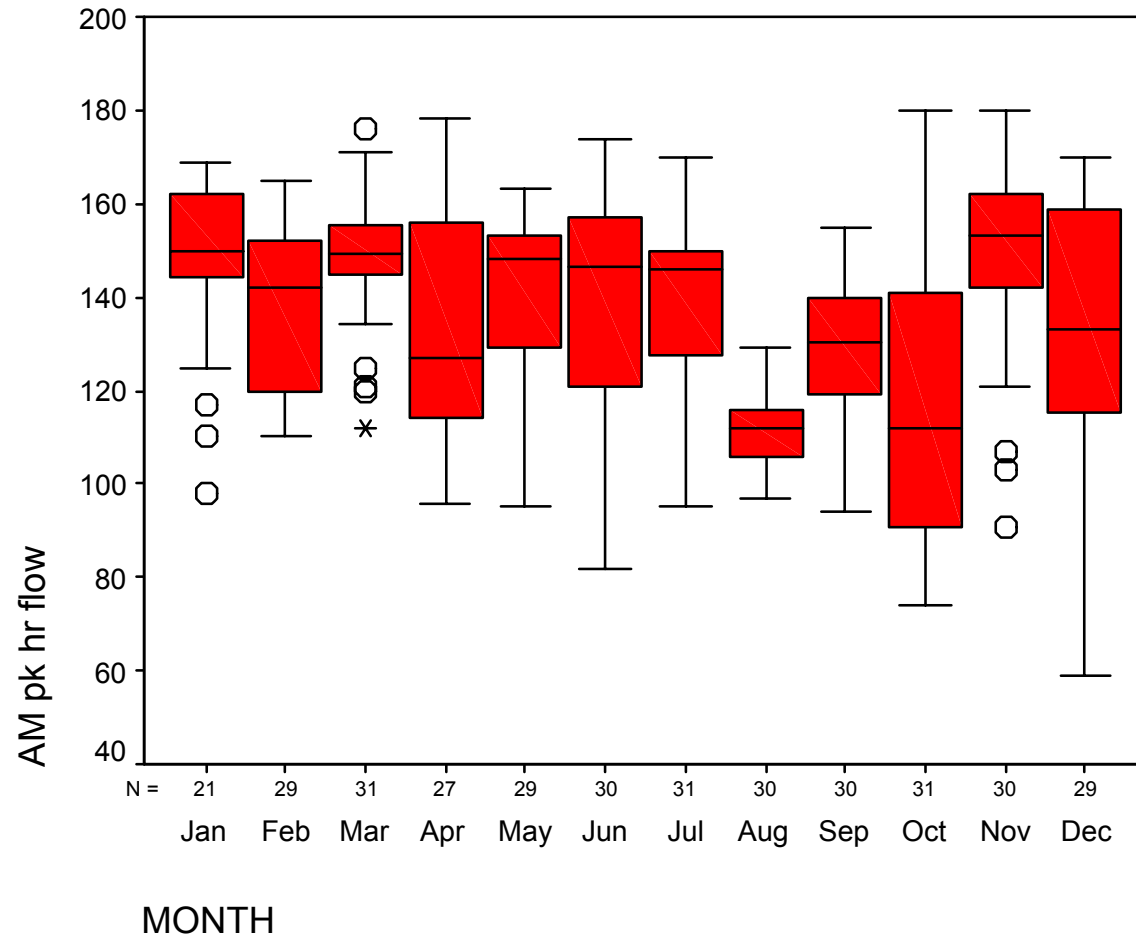


Figure C12 AM Peak-hour Traffic Flow for Badger Farm Ridge Way, by day of week

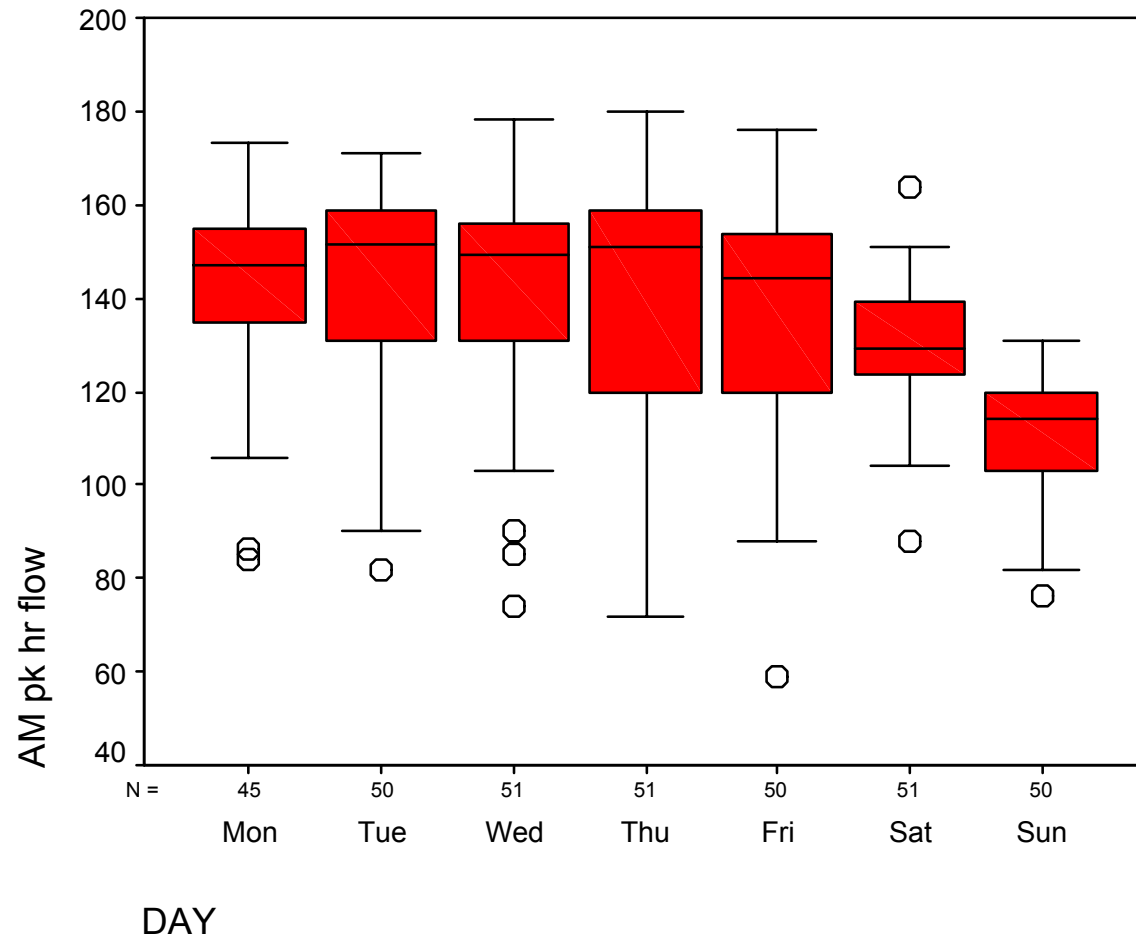


Figure C13 AM Peak-hour Traffic Flow for Badger Farm Meadow Way, by month

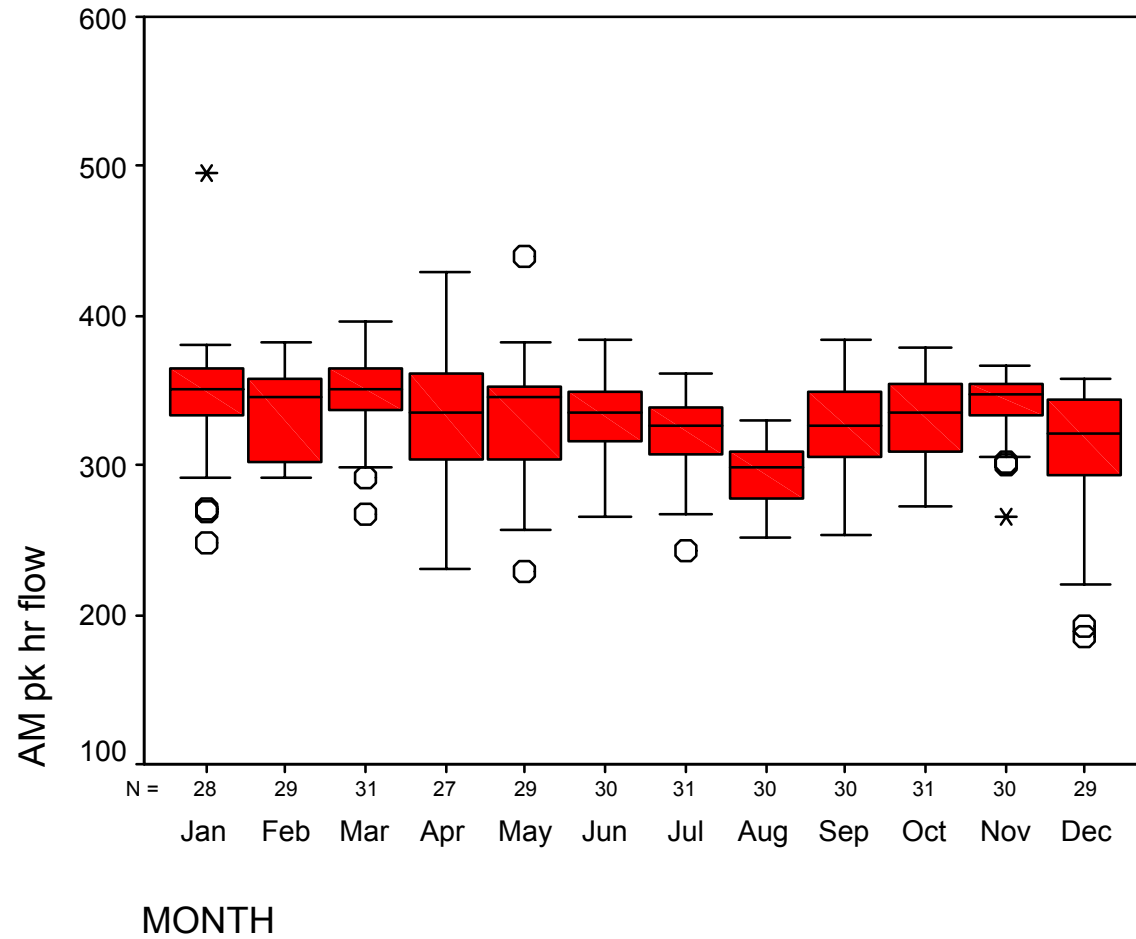


Figure C14 AM Peak-hour Traffic Flow for Badger Farm Meadow Way, by day of week

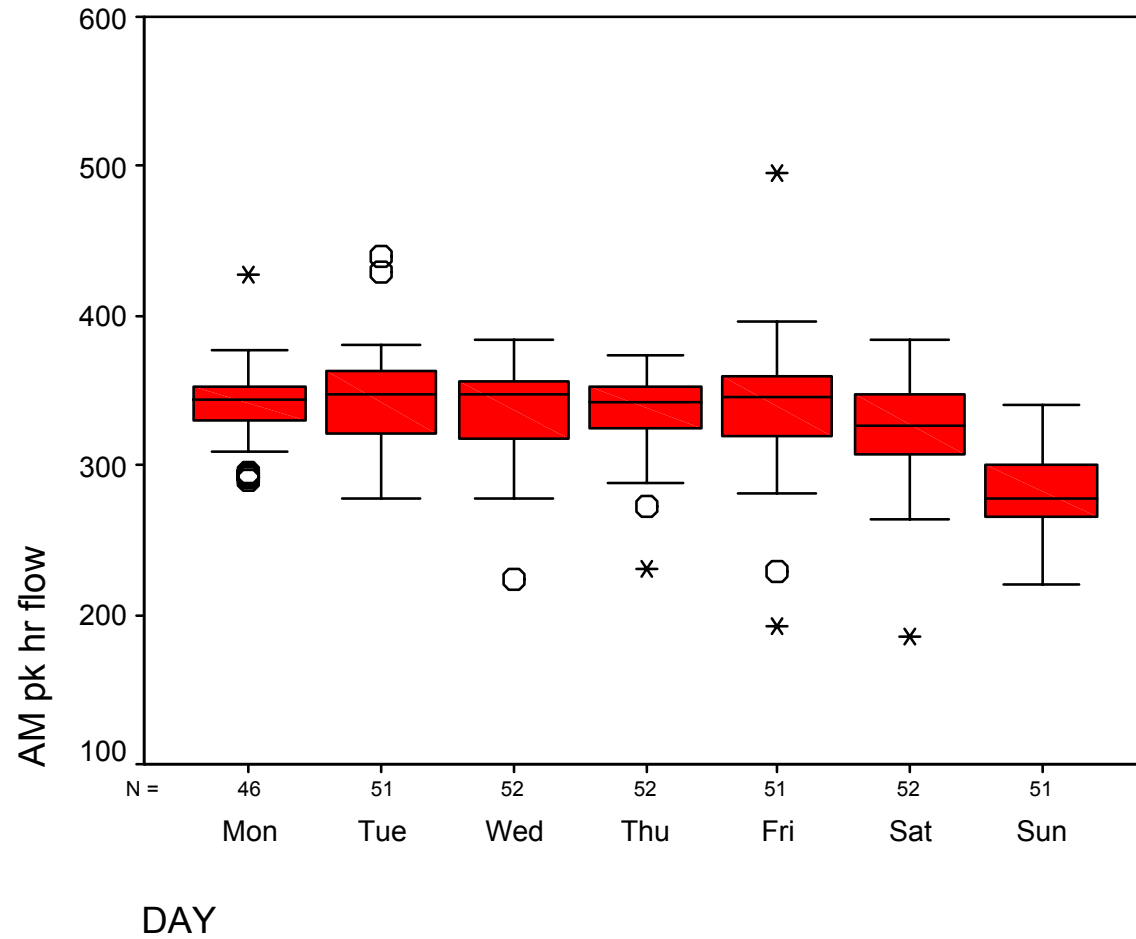


Figure C15 AM Peak-hour Traffic Flow for Bridport Golf Club, by month

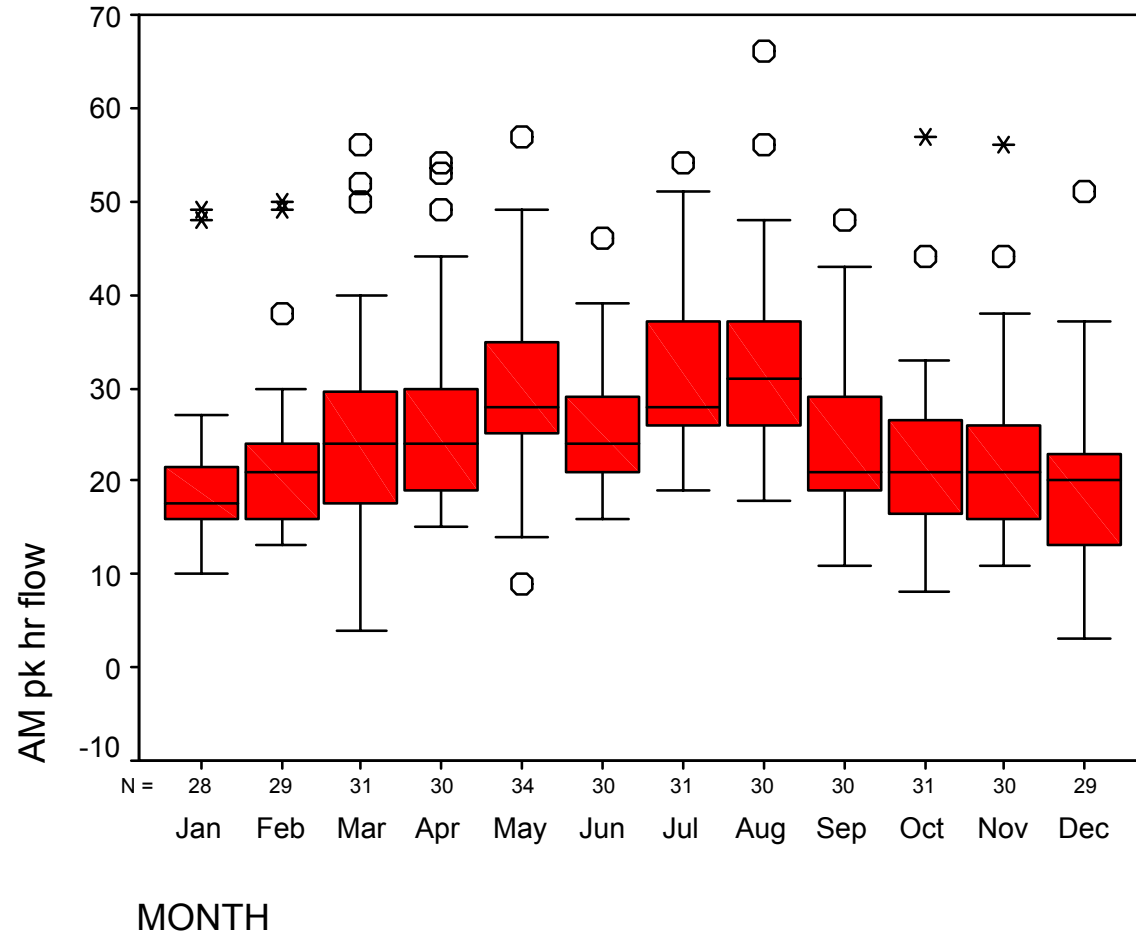


Figure C16 AM Peak-hour Traffic Flow for Bridport Golf Club, by day of week

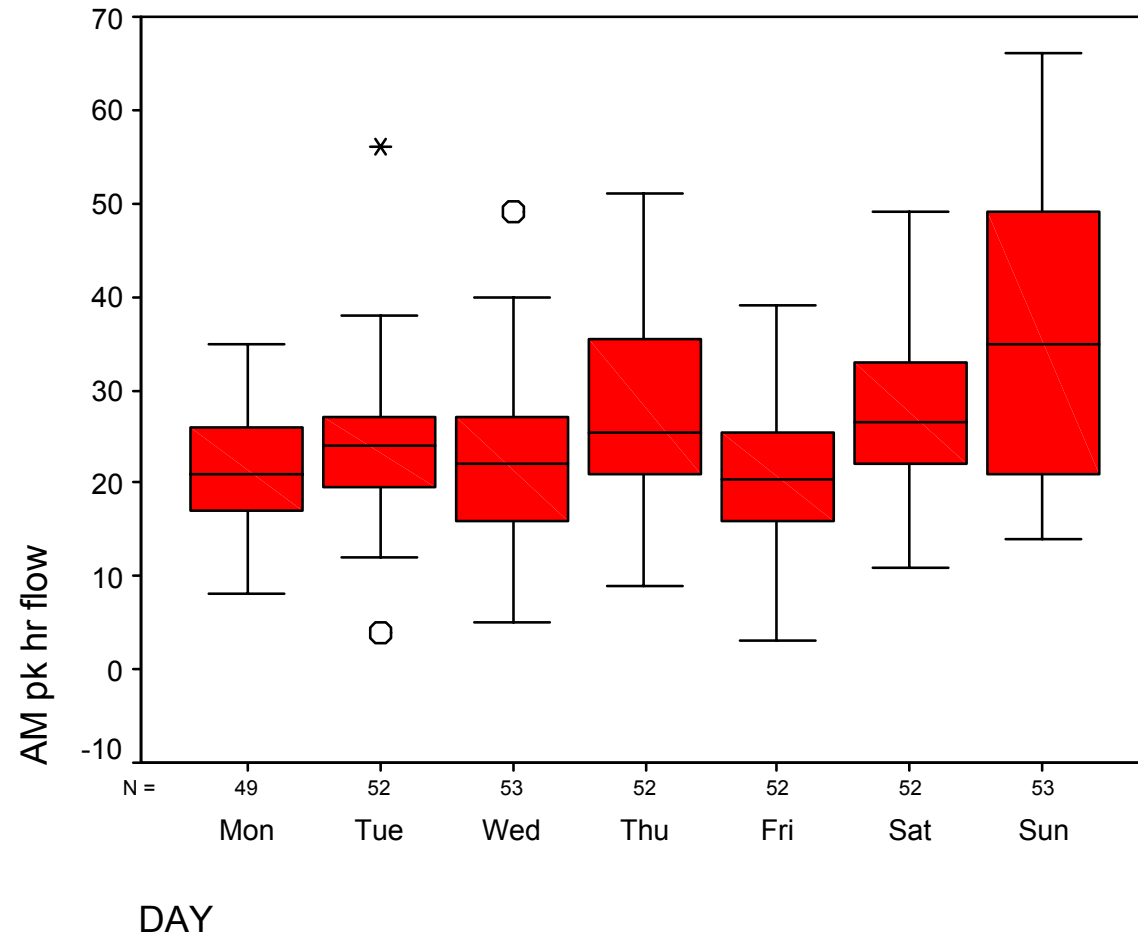


Table C1 Occurrence of AM Peak Hour for Tesco Bournemouth

<u>OVERALL</u>	peak hour (time)											Table Total	
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11		11 - 12
frequency											17	307	324
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.2	94.8	
<u>By MONTH</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan													30
Feb													28
Mar													31
Apr											2		25
May											2		27
Jun											3		27
Jul											5		26
Aug											2		27
Sep													30
Oct											2		29
Nov													
Dec											1		27
<u>By DAY</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon											2		40
Tue											2		45
Wed											2		46
Thu													46
Fri											7		39
Sat											4		44
Sun													47

Table C2 Occurrence of AM Peak Hour for Tesco Poole

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency										1	5	316	322
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	1.6	98.1	
<u>By MONTH</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan													26
Feb													29
Mar													31
Apr											1		26
May													29
Jun													30
Jul											1		29
Aug											1		29
Sep										1	1		28
Oct											1		30
Nov													
Dec													29
<u>By DAY</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon											1		41
Tue											1		45
Wed													46
Thu										1			45
Fri											2		45
Sat											1		47
Sun													47

Table C3 Occurrence of AM Peak Hour for Asda Gosport

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency									1	49	137	166	353
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	13.9	38.8	47.0	
<u>By MONTH</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan											11	17	
Feb										2	11	16	
Mar										6	12	13	
Apr										1	11	15	
May										7	12	8	
Jun										6	16	8	
Jul										3	17	11	
Aug										5	15	10	
Sep									1	7	9	13	
Oct										7	8	16	
Nov										3	9	18	
Dec										2	6	21	
<u>By DAY</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon									1	1	22	22	
Tue										5	20	25	
Wed										11	23	17	
Thu										18	19	15	
Fri										14	11	26	
Sat											5	47	
Sun											37	14	

Table C4 Occurrence of AM Peak Hour for Southern Water

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency	6	1				10	11	10	283	4	6	2	333
percentage	1.8	0.3	0.0	0.0	0.0	3.0	3.3	3.0	85.0	1.2	1.8	0.6	
<u>By MONTH</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan						1		2	23		1		
Feb							1	2	24	1			
Mar								2	28				
Apr						1	3		20	1			
May		1				1	1		23	1			
Jun							1	2	26		1		
Jul						1		1	25		1	1	
Aug	2					1	1		23				
Sep						4			24		1		
Oct	1					1	2		25	1			
Nov	2						2		25				
Dec	1							1	17		2	1	
<u>By DAY</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon									42				
Tue								1	46				
Wed									49				
Thu									47				
Fri									50				
Sat						1		1	46	1	1		
Sun	6	1				9	11	8	3	3	5	2	

Table C5 Occurrence of AM Peak Hour for Dorset County Hospital

<u>OVERALL</u>	peak hour (time)											Table Total	
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11		11 - 12
frequency								102		59	159	35	355
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	28.7	0.0	16.6	44.8	9.9	
<u>By MONTH</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan								7		6	13	2	
Feb								8		5	11	5	
Mar								8		5	16	2	
Apr								9			17	1	
May								8		4	15	2	
Jun								8		7	13	2	
Jul								10		3	12	6	
Aug								8		3	15	4	
Sep								9		4	14	3	
Oct								9		8	11	3	
Nov								8		8	12	2	
Dec								10		6	10	3	
<u>By DAY</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon										18	22	6	
Tue										6	36	9	
Wed										13	36	3	
Thu										13	30	9	
Fri										9	35	7	
Sat								52					
Sun								50				1	

Table C6 Occurrence of AM Peak Hour for Badger Farm Ridge Way

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency								61	169	3	24	91	348
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	17.5	48.6	0.9	6.9	26.1	
<u>By MONTH</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan									15		2	4	
Feb								9	12		2	6	
Mar								4	19			8	
Apr								9	8		4	6	
May								6	15		2	6	
Jun								3	19		1	7	
Jul								4	17		1	9	
Aug								17	5			8	
Sep								8	11	1	2	8	
Oct									11	1	5	14	
Nov								1	21		3	5	
Dec									16	1	2	10	
<u>By DAY</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon								11	31	1	1	1	
Tue								13	33		1	3	
Wed								16	32		1	2	
Thu								12	36	1		2	
Fri								9	37		2	2	
Sat											10	41	
Sun										1	9	40	

Table C7 Occurrence of AM Peak Hour for Badger Farm Meadow Way

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency								28	221	1	16	89	355
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.0	7.9	62.3	0.3	4.5	25.1	
<u>By MONTH</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan									20			8	
Feb								2	19			8	
Mar								3	20		3	5	
Apr								1	17		2	7	
May									21		1	7	
Jun								4	18		1	7	
Jul									21	1	2	7	
Aug									22		2	6	
Sep								4	17			9	
Oct								1	21		2	7	
Nov								11	11		1	7	
Dec								2	14		2	11	
<u>By DAY</u>	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon								4	42				
Tue								6	45				
Wed								8	43			1	
Thu								6	45			1	
Fri								4	46			1	
Sat										1	12	39	
Sun											4	47	

Table C8 Occurrence of AM Peak Hour for Bridport Golf Club

<u>OVERALL</u>	peak hour (time)												Table Total
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
frequency							1	11	69	91	60	131	363
percentage	0.0	0.0	0.0	0.0	0.0	0.0	0.3	3.0	19.0	25.1	16.5	36.1	
<u>By MONTH</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Jan									7	8	5	8	
Feb									10	5	5	9	
Mar								2	8	6	7	8	
Apr								1	3	7	7	12	
May									4	10	4	16	
Jun								2	5	9	4	10	
Jul									7	10	2	12	
Aug								1	3	8	3	15	
Sep								1	4	9	4	12	
Oct								2	4	7	7	11	
Nov								1	7	8	6	8	
Dec							1	1	7	4	6	10	
<u>By DAY</u>													
	peak hour (time)												
	00 - 01	01 - 02	02 - 03	03 - 04	04 - 05	05 - 06	06 - 07	07 - 08	08 - 09	09 - 10	10 - 11	11 - 12	
Mon								5	5	7	12	20	
Tue									1	35	11	5	
Wed									10	23	9	11	
Thu								1	12	1	7	31	
Fri							1		3	11	8	29	
Sat									10	14	9	19	
Sun								5	28		4	16	

Table C9 Mean Weekday AM peak-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	942	0.2%	940	-12.6%	430	-2.9%	219	4.2%
Feb	961	2.2%	971	-9.6%	443	0.0%	221	5.0%
Mar	864	-8.1%	1,059	-1.5%	443	-0.1%	214	1.7%
Apr	972	3.4%	1,158	7.7%	472	6.5%	209	-0.6%
May	907	-3.5%	1,049	-2.4%	442	-0.1%	202	-4.0%
Jun	933	-0.8%	1,051	-2.2%	443	0.1%	208	-1.4%
Jul	939	-0.1%	1,105	2.8%	431	-2.6%	214	1.5%
Aug	982	4.4%	1,193	10.9%	451	1.9%	205	-2.7%
Sep	920	-2.2%	1,106	2.9%	403	-8.9%	203	-3.8%
Oct	881	-6.3%	1,088	1.2%	436	-1.5%	210	-0.4%
Nov	.	-	.	-	424	-4.3%	212	0.5%
Dec	1,077	14.6%	1,096	1.9%	506	14.2%	210	-0.3%
Total	940		1,075		443		211	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	363	1.2%	157	11.2%	361	6.7%	18	-24.2%
Feb	366	2.0%	143	1.5%	343	1.2%	20	-13.5%
Mar	360	0.1%	154	9.3%	359	5.9%	21	-10.5%
Apr	371	3.3%	136	-3.6%	354	4.6%	23	0.5%
May	363	1.0%	147	4.3%	345	2.0%	29	25.7%
Jun	347	-3.2%	150	6.3%	339	0.1%	23	0.8%
Jul	339	-5.7%	146	3.7%	330	-2.5%	30	30.8%
Aug	325	-9.6%	112	-20.4%	302	-10.9%	31	33.9%
Sep	340	-5.2%	135	-4.3%	334	-1.3%	23	-2.2%
Oct	362	0.8%	116	-17.9%	336	-0.7%	20	-12.4%
Nov	394	9.7%	158	12.1%	348	2.6%	21	-7.0%
Dec	383	6.7%	142	0.6%	313	-7.6%	16	-29.3%
Total	359		141		339		23	

Table C10 Mean Saturday AM peak-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,159	-0.4%	1,190	-11.9%	608	1.9%	47	8.4%
Feb	1,236	6.3%	1,307	-3.2%	610	2.2%	41	-5.5%
Mar	1,048	-9.9%	1,322	-2.1%	597	0.0%	52	21.1%
Apr	1,220	4.9%	1,426	5.6%	573	-4.0%	46	7.2%
May	1,165	0.1%	1,304	-3.5%	609	2.1%	46	5.5%
Jun	1,177	1.2%	1,405	4.0%	606	1.5%	59	36.8%
Jul	1,173	0.8%	1,388	2.8%	606	1.6%	32	-25.4%
Aug	1,173	0.9%	1,498	10.9%	598	0.2%	37	-14.2%
Sep	1,088	-6.5%	1,342	-0.7%	543	-9.1%	30	-29.5%
Oct	1,161	-0.2%	1,474	9.2%	622	4.2%	54	25.2%
Nov	.	-	.	-	610	2.3%	47	8.9%
Dec	1,192	2.5%	1,211	-10.3%	597	0.0%	33	-24.7%
Total	1,163		1,351		597		43	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	199	3.9%	139	6.7%	343	5.9%	20	-27.7%
Feb	198	3.6%	131	0.2%	328	1.1%	20	-25.8%
Mar	207	8.0%	141	8.0%	323	-0.4%	26	-5.7%
Apr	183	-4.3%	128	-1.8%	310	-4.2%	31	13.5%
May	202	5.6%	137	5.0%	328	1.4%	30	9.9%
Jun	200	4.7%	128	-2.1%	329	1.7%	30	9.9%
Jul	197	3.0%	134	2.4%	328	1.2%	38	37.7%
Aug	189	-1.3%	121	-7.3%	295	-9.0%	36	32.7%
Sep	182	-4.6%	119	-8.8%	320	-1.1%	29	7.7%
Oct	176	-8.0%	138	5.7%	349	7.7%	20	-26.8%
Nov	180	-6.2%	135	3.4%	336	3.8%	19	-30.4%
Dec	187	-2.3%	123	-6.1%	306	-5.6%	25	-7.0%
Total	191		131		324		27	

Table C11 Mean Sunday AM peak-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,214	-2.1%	1,069	-23.5%	622	-9.6%	25	52.1%
Feb	1,227	-1.1%	1,208	-13.5%	664	-3.5%	22	36.6%
Mar	1,038	-16.3%	1,351	-3.3%	647	-5.9%	21	28.3%
Apr	1,256	1.3%	1,538	10.1%	658	-4.4%	8	-53.4%
May	1,274	2.7%	1,413	1.1%	739	7.5%	57	255.5%
Jun	1,323	6.7%	1,460	4.5%	749	8.9%	8	-51.9%
Jul	1,288	3.9%	1,445	3.4%	722	4.9%	10	-39.1%
Aug	1,331	7.4%	1,575	12.7%	702	2.0%	9	-42.6%
Sep	1,194	-3.7%	1,486	6.4%	653	-5.1%	7	-56.5%
Oct	1,134	-8.5%	1,469	5.1%	709	3.1%	7	-54.0%
Nov	.	-	.	-	670	-2.6%	16	-3.8%
Dec	1,347	8.6%	1,342	-4.0%	703	2.2%	7	-54.5%
Total	1,240		1,397		688		16	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	139	-2.4%	108	-2.6%	280	-0.6%	33	-8.5%
Feb	141	-1.2%	115	3.2%	298	5.8%	35	-1.5%
Mar	137	-4.0%	120	7.5%	290	3.0%	47	31.4%
Apr	152	6.8%	118	6.1%	266	-5.6%	39	10.1%
May	147	2.8%	113	1.8%	283	0.5%	36	-0.5%
Jun	139	-2.3%	106	-5.1%	288	2.1%	35	-2.9%
Jul	143	0.6%	113	1.8%	270	-4.1%	36	1.2%
Aug	133	-6.5%	103	-7.6%	257	-8.8%	42	17.4%
Sep	144	0.9%	111	-0.4%	272	-3.6%	27	-25.9%
Oct	140	-1.5%	111	0.0%	288	2.3%	35	-1.0%
Nov	149	4.7%	106	-5.1%	299	6.0%	34	-6.4%
Dec	145	1.8%	111	-0.5%	289	2.7%	31	-12.8%
Total	142		111		282		36	

Table C12 Mean AM peak-hour traffic flow, by day of week

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	907	-3.6%	1,052	-2.1%	413	-6.7%	207	-1.6%
Tuesday	898	-4.5%	1,025	-4.6%	419	-5.5%	216	2.5%
Wednesday	902	-4.1%	1,015	-5.6%	423	-4.5%	212	0.5%
Thursday	948	0.8%	1,091	1.5%	458	3.4%	217	2.9%
Friday	1,046	11.3%	1,187	10.4%	498	12.4%	202	-4.2%
Saturday	1,163	23.7%	1,351	25.6%	597	34.7%	43	-79.5%
Sunday	1,240	31.9%	1,397	30.0%	688	55.3%	16	-92.4%
Weekday	940		1,075		443		211	
Total	1,017		1,163		501		157	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	375	4.4%	142	0.4%	341	0.6%	21	-9.6%
Tuesday	360	0.4%	143	1.2%	343	1.2%	24	2.9%
Wednesday	349	-2.9%	141	0.0%	337	-0.4%	22	-4.3%
Thursday	347	-3.3%	143	1.0%	335	-1.1%	28	21.2%
Friday	366	2.1%	137	-2.6%	338	-0.2%	21	-10.6%
Saturday	191	-46.7%	131	-7.5%	324	-4.3%	27	18.3%
Sunday	142	-60.3%	111	-21.2%	282	-16.8%	36	55.0%
Weekday	359		141		339		23	
Total	303		135		328		26	

Appendix D

Analysis of PM Peak-hour Traffic Flows

Figure D1	PM peak-hour Traffic Flow for Tesco Bournemouth, by month
Figure D2	PM peak-hour Traffic Flow for Tesco Bournemouth, by day of week
Figure D3	PM peak-hour Traffic Flow for Tesco Poole, by month
Figure D4	PM peak-hour Traffic Flow for Tesco Poole, by day of week
Figure D5	PM peak-hour Traffic Flow for Asda Gosport, by month
Figure D6	PM peak-hour Traffic Flow for Asda Gosport, by day of week
Figure D7	PM peak-hour Traffic Flow for Southern Water, by month
Figure D8	PM peak-hour Traffic Flow for Southern Water, by day of week
Figure D9	PM peak-hour Traffic Flow for Dorset County Hospital, by month
Figure D10	PM peak-hour Traffic Flow for Dorset County Hospital, by day of week
Figure D11	PM peak-hour Traffic Flow for Badger Farm Ridge Way, by month
Figure D12	PM peak-hour Traffic Flow for Badger Farm Ridge Way, by day of week
Figure D13	PM peak-hour Traffic Flow for Badger Farm Meadow Way, by month
Figure D14	PM peak-hour Traffic Flow for Badger Farm Meadow Way, by day of week
Figure D15	PM peak-hour Traffic Flow for Bridport Golf Club, by month
Figure D16	PM peak-hour Traffic Flow for Bridport Golf Club, by day of week
Table D1	Occurrence of PM peak-hour for Tesco Bournemouth
Table D2	Occurrence of PM peak-hour for Tesco Poole
Table D3	Occurrence of PM peak-hour for Asda Gosport
Table D4	Occurrence of PM peak-hour for Southern Water
Table D5	Occurrence of PM peak-hour for Dorset County Hospital
Table D6	Occurrence of PM peak-hour for Badger Farm Ridge Way
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Table D8	Occurrence of PM peak-hour for Bridport Golf Club
Table D9	Mean Weekday PM peak-hour Traffic Flow, by month
Table D10	Mean Saturday PM peak-hour Traffic Flow, by month
Table D11	Mean Sunday PM peak-hour Traffic Flow, by month
Table D12	Mean PM peak-hour Traffic Flow, by day of week

Figure D1 PM Peak-hour Traffic Flow for Tesco Bournemouth, by month

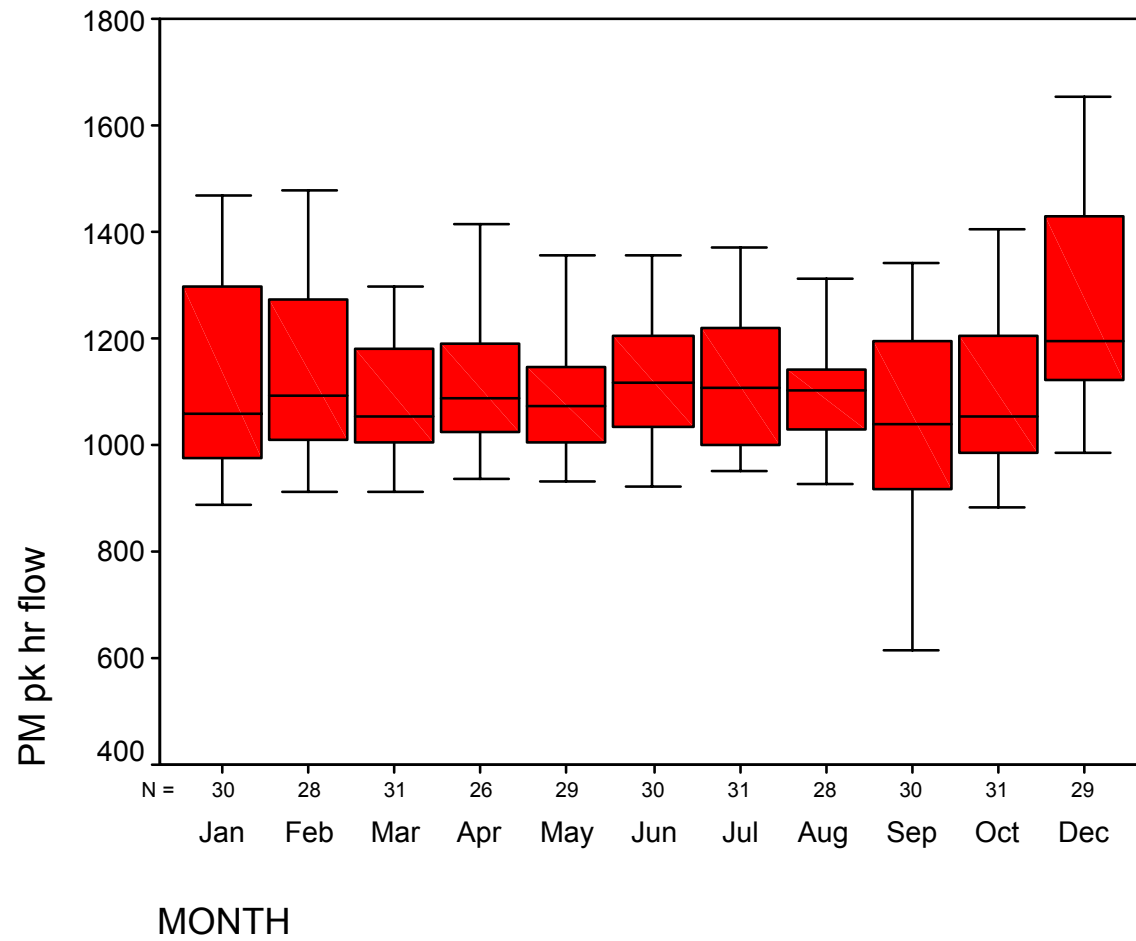


Figure D2 PM Peak-hour Traffic Flow for Tesco Bournemouth, by day of week

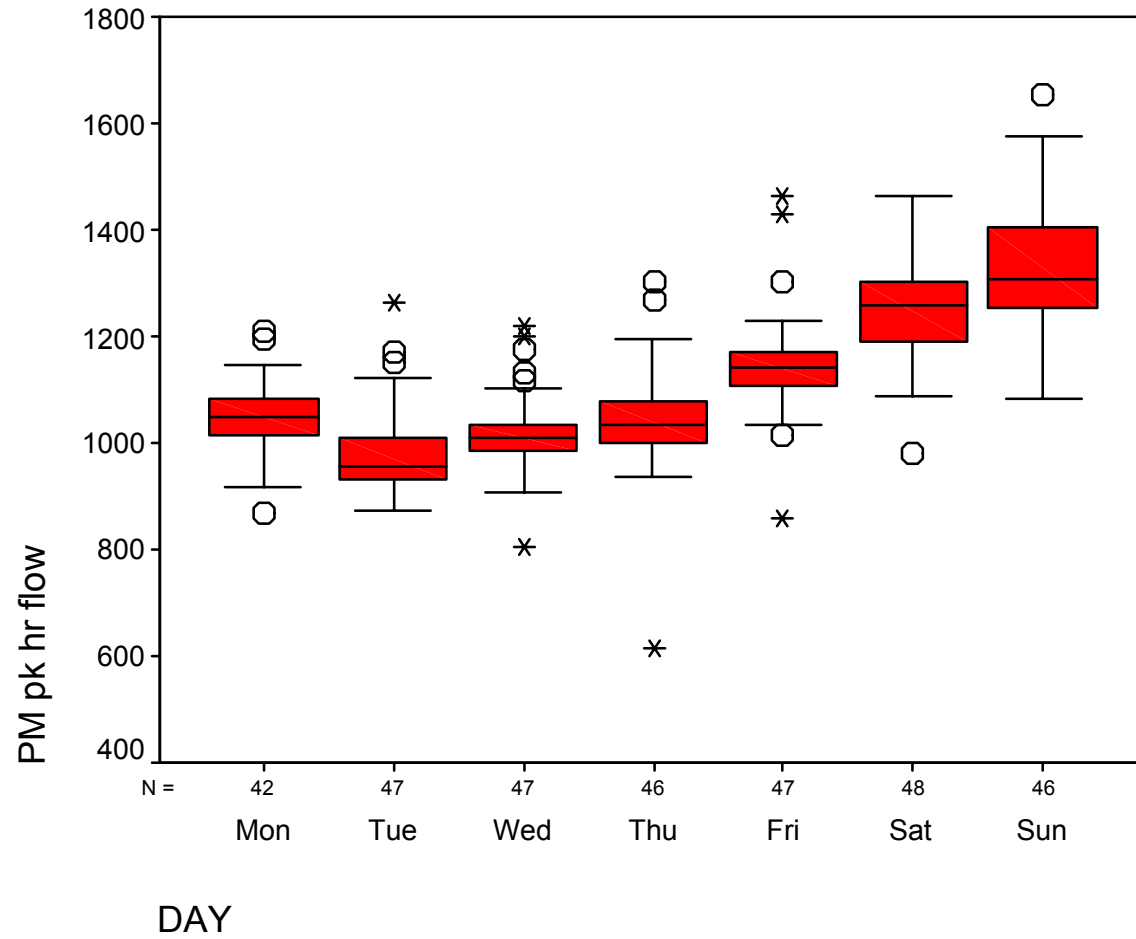


Figure D3 PM Peak-hour Traffic Flow for Tesco Poole, by month

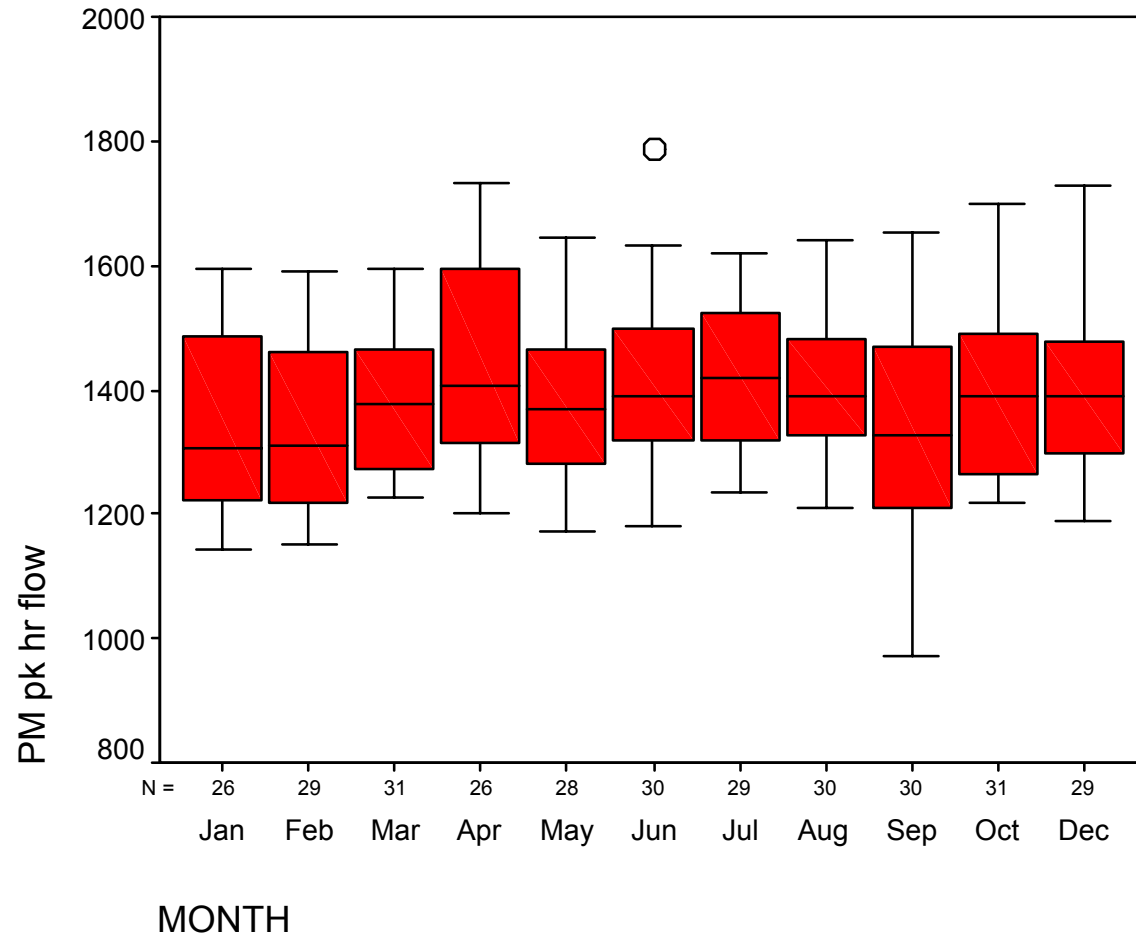


Figure D4 PM Peak-hour Traffic Flow for Tesco Poole, by day of week

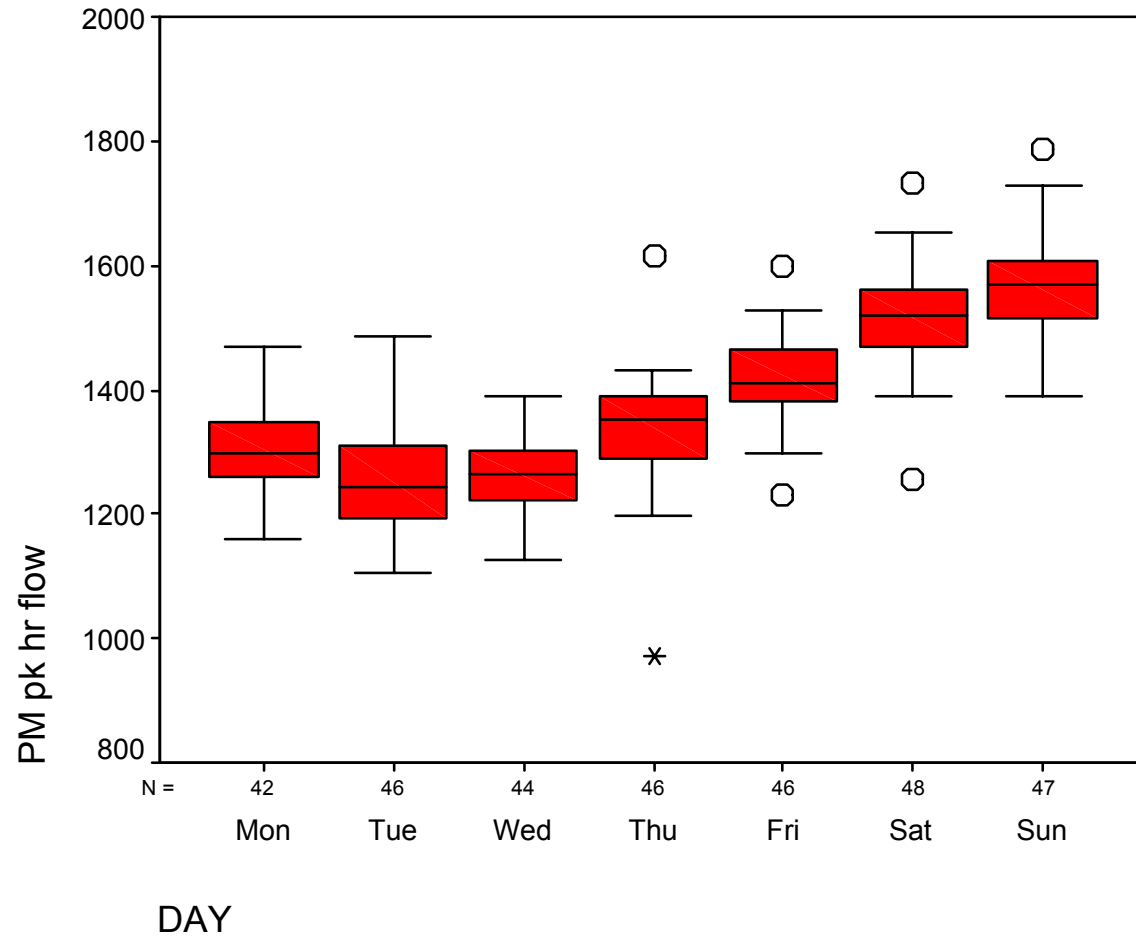


Figure D5 PM Peak-hour Traffic Flow for Asda Gosport, by month

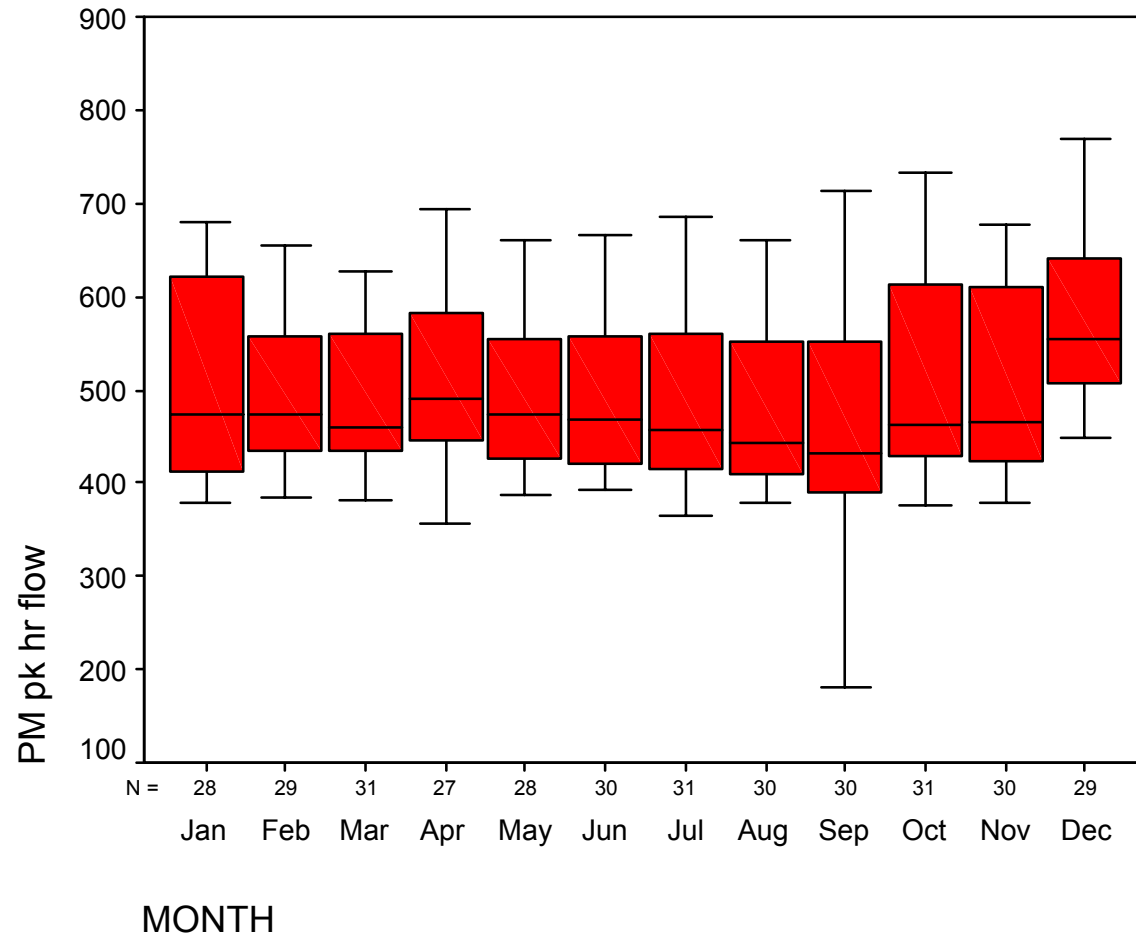


Figure D6 PM Peak-hour Traffic Flow for Asda Gosport, by day of week

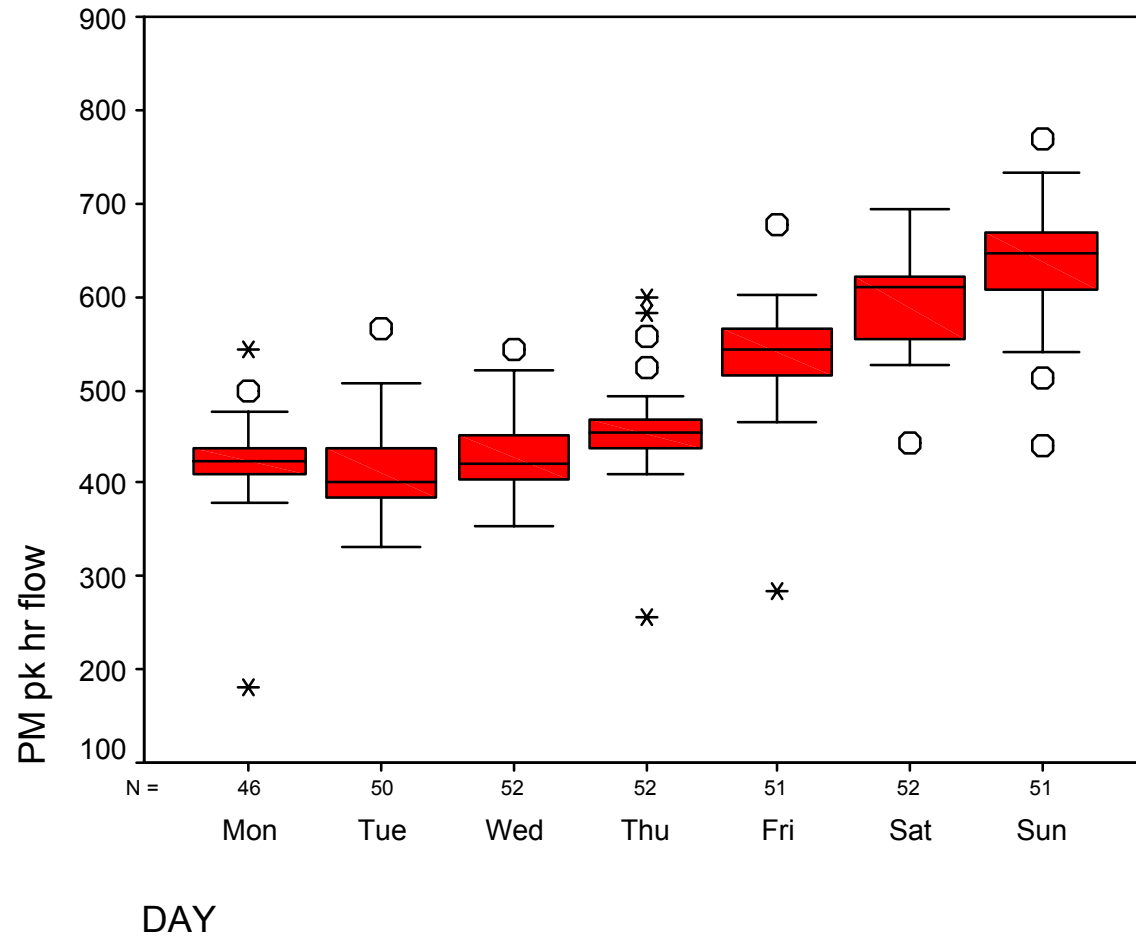


Figure D7 PM Peak-hour Traffic Flow for Southern Water, by month

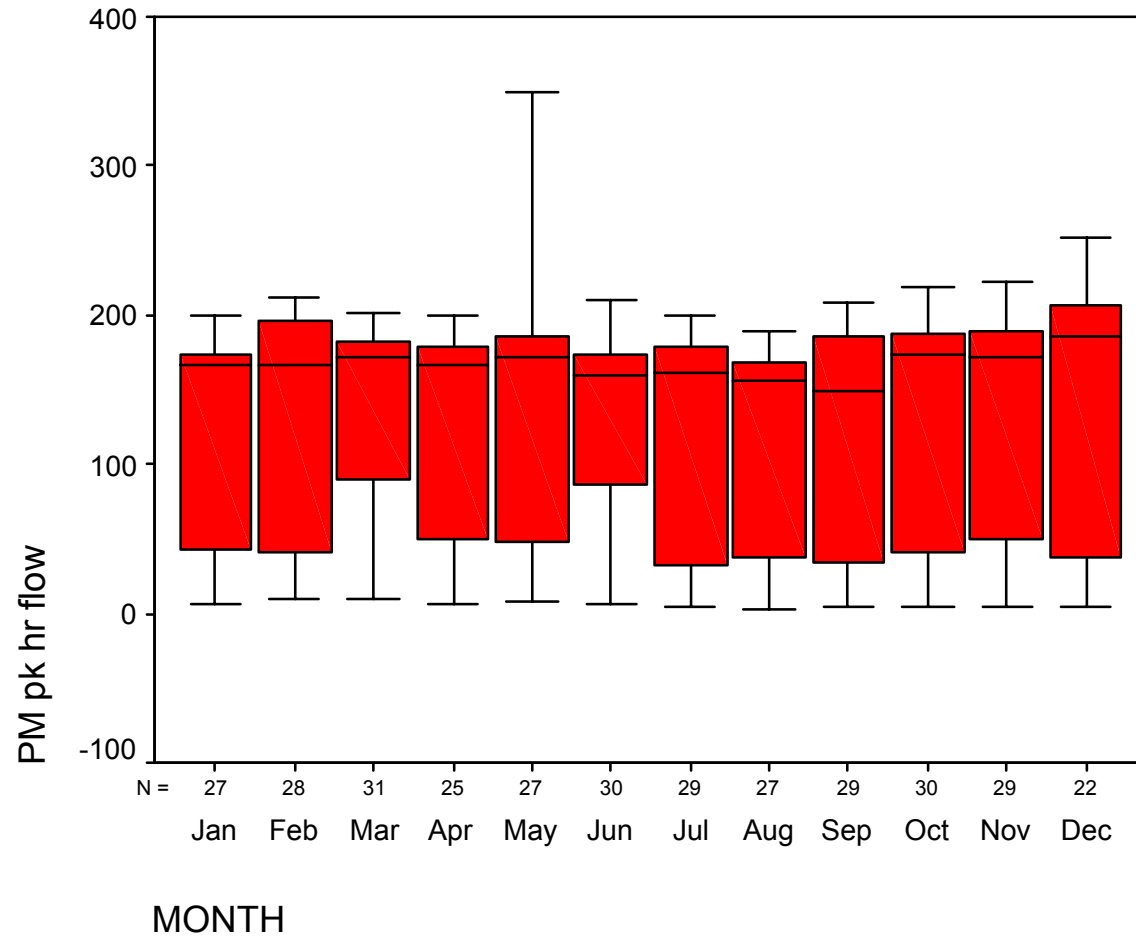


Figure D8 PM Peak-hour Traffic Flow for Southern Water, by day of week

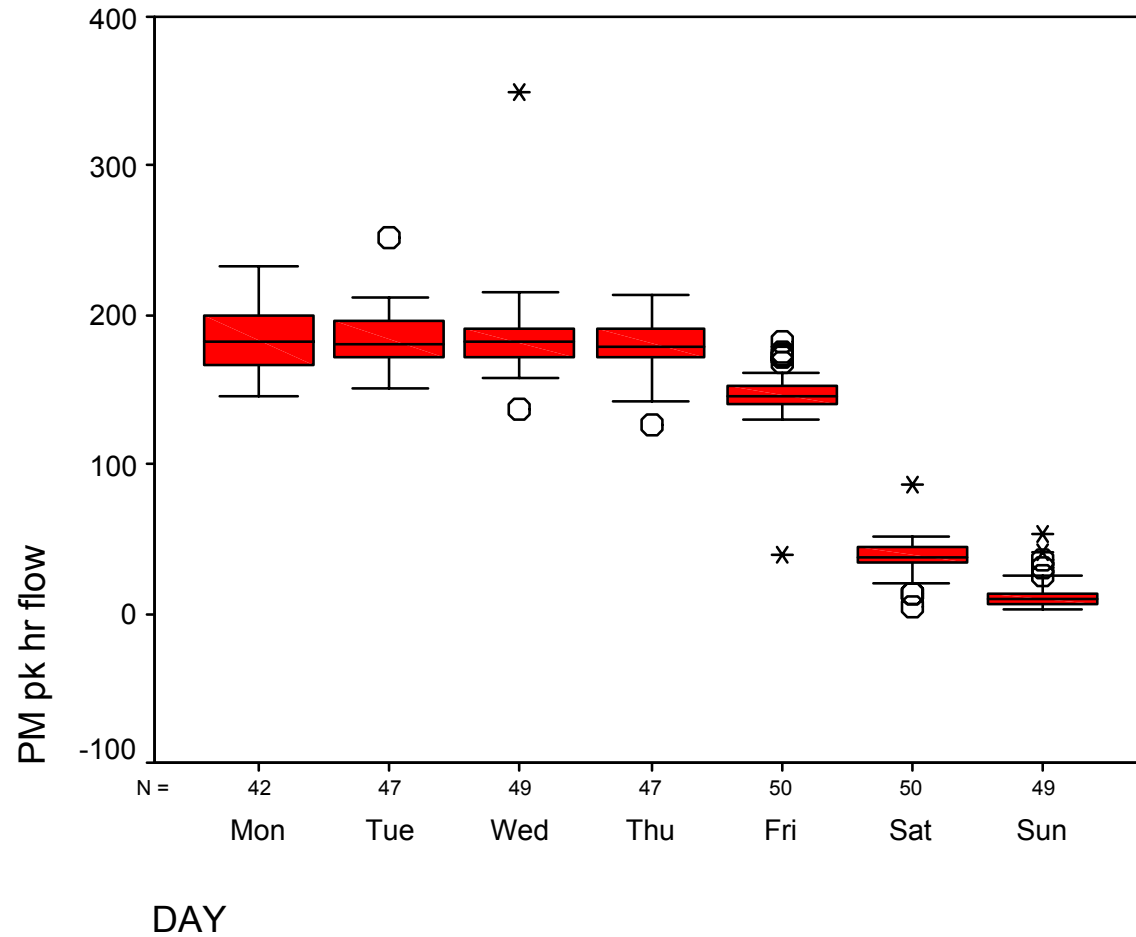


Figure D9 PM Peak-hour Traffic Flow for Dorset County Hospital, by month

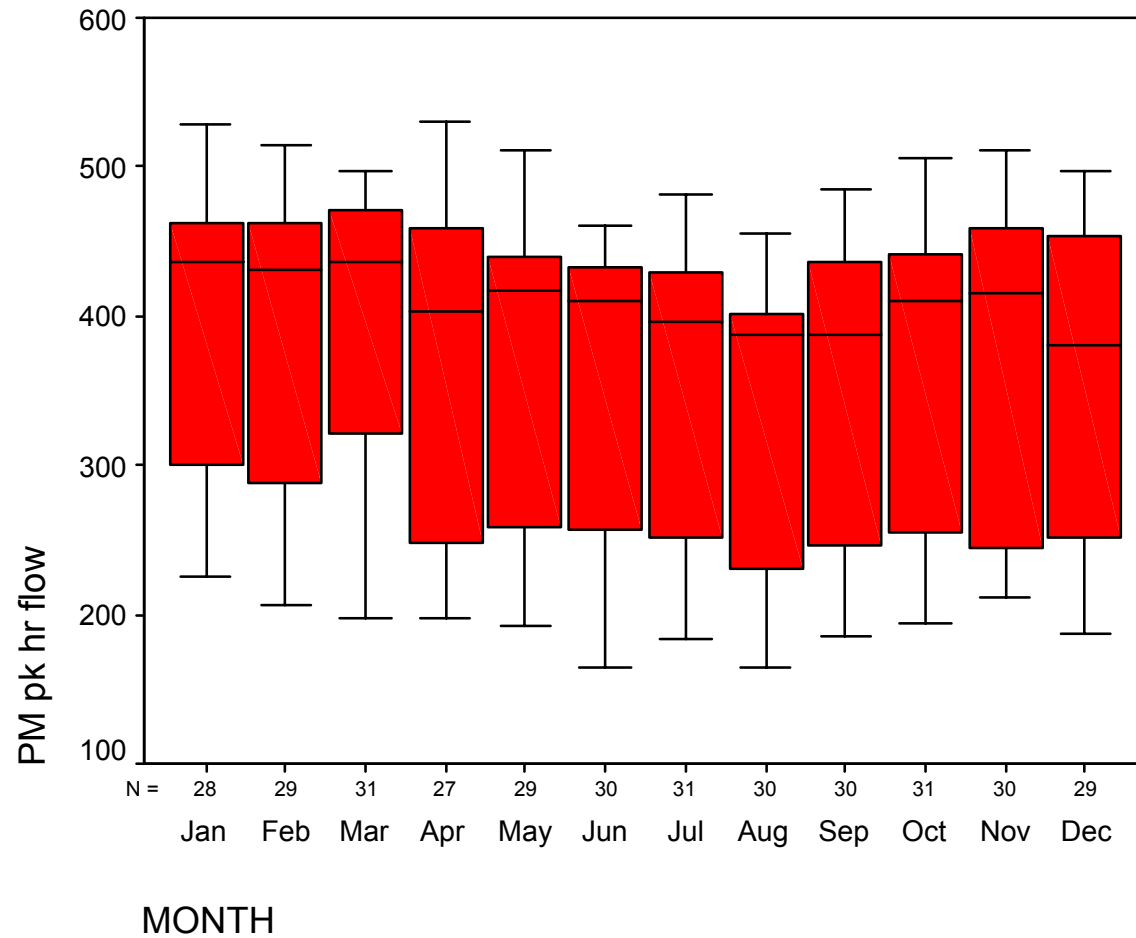


Figure D10 PM Peak-hour Traffic Flow for Dorset County Hospital, by day of week

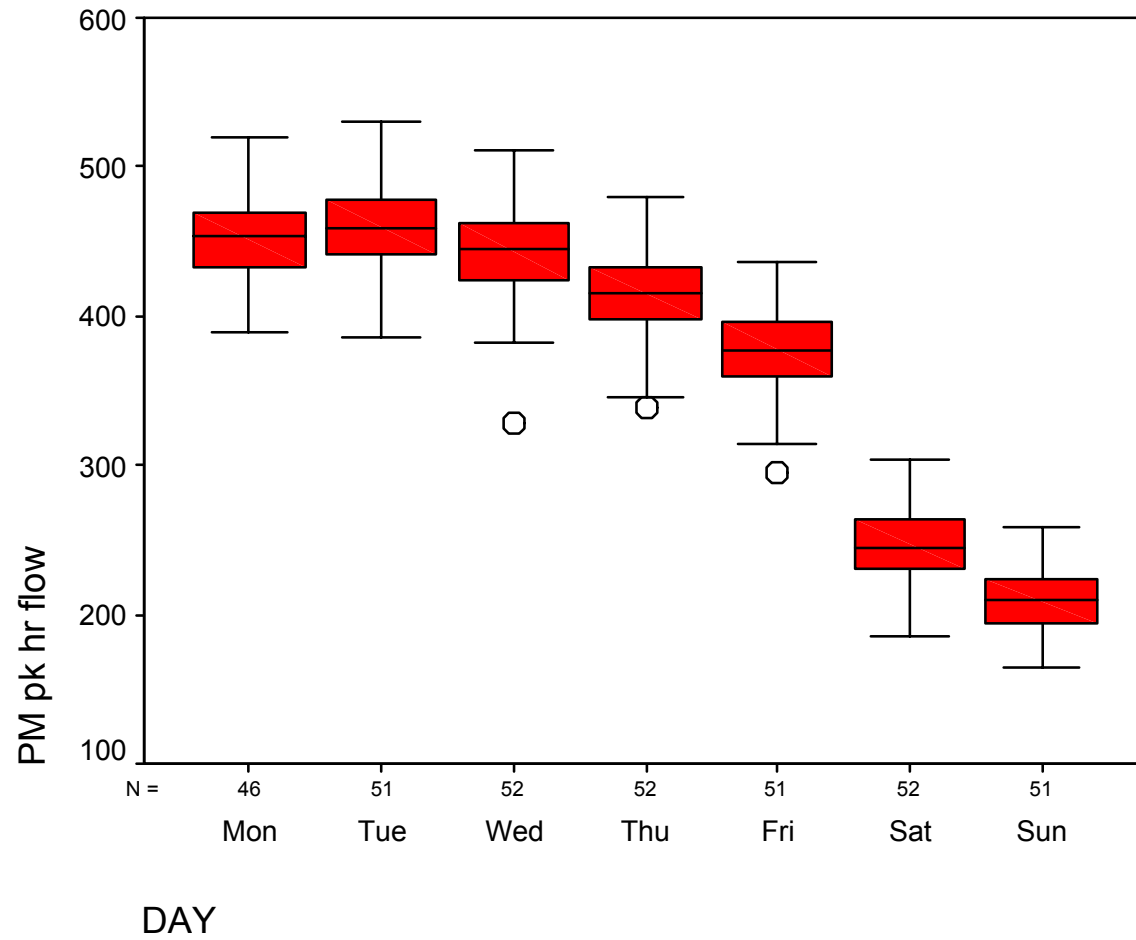


Figure D11 PM Peak-hour Traffic Flow for Badger Farm Ridge Way, by month

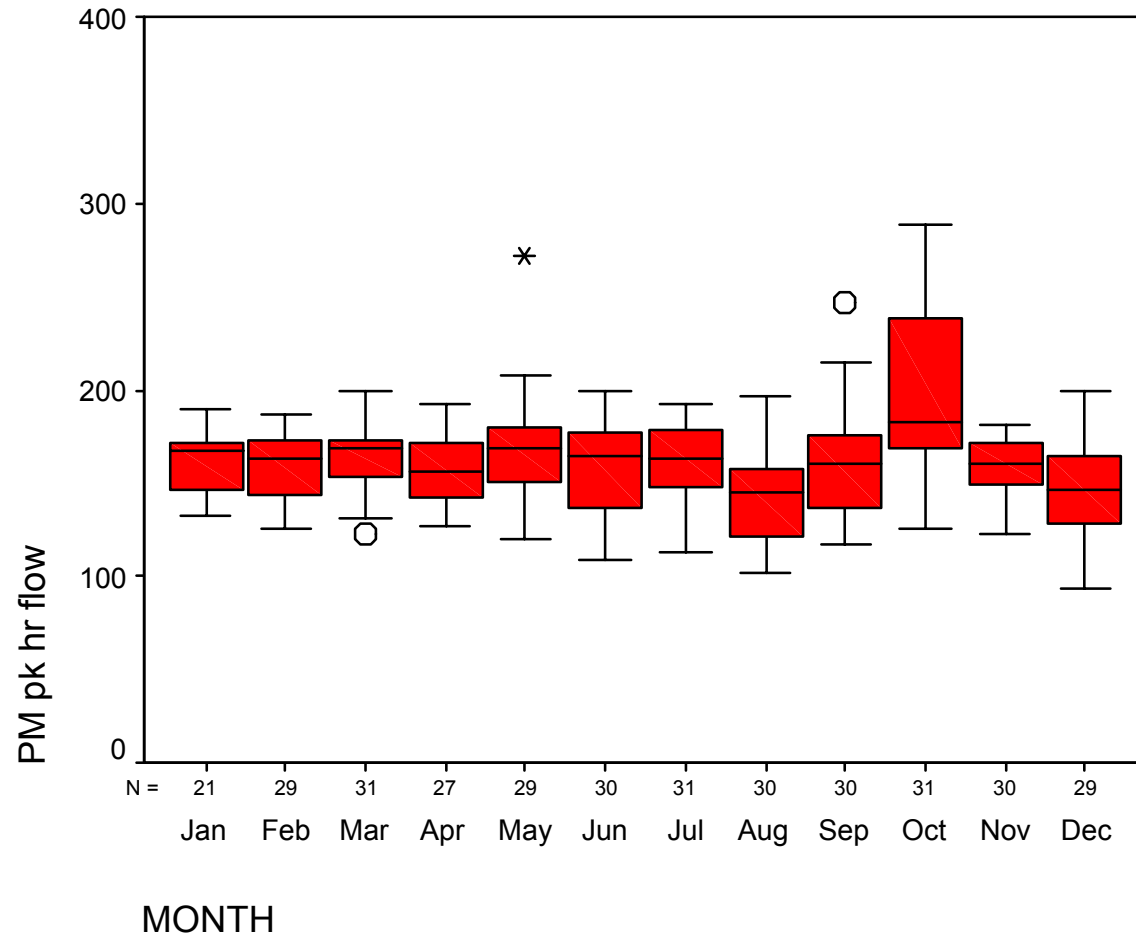


Figure D12 PM Peak-hour Traffic Flow for Badger Farm Ridge Way, by day of week

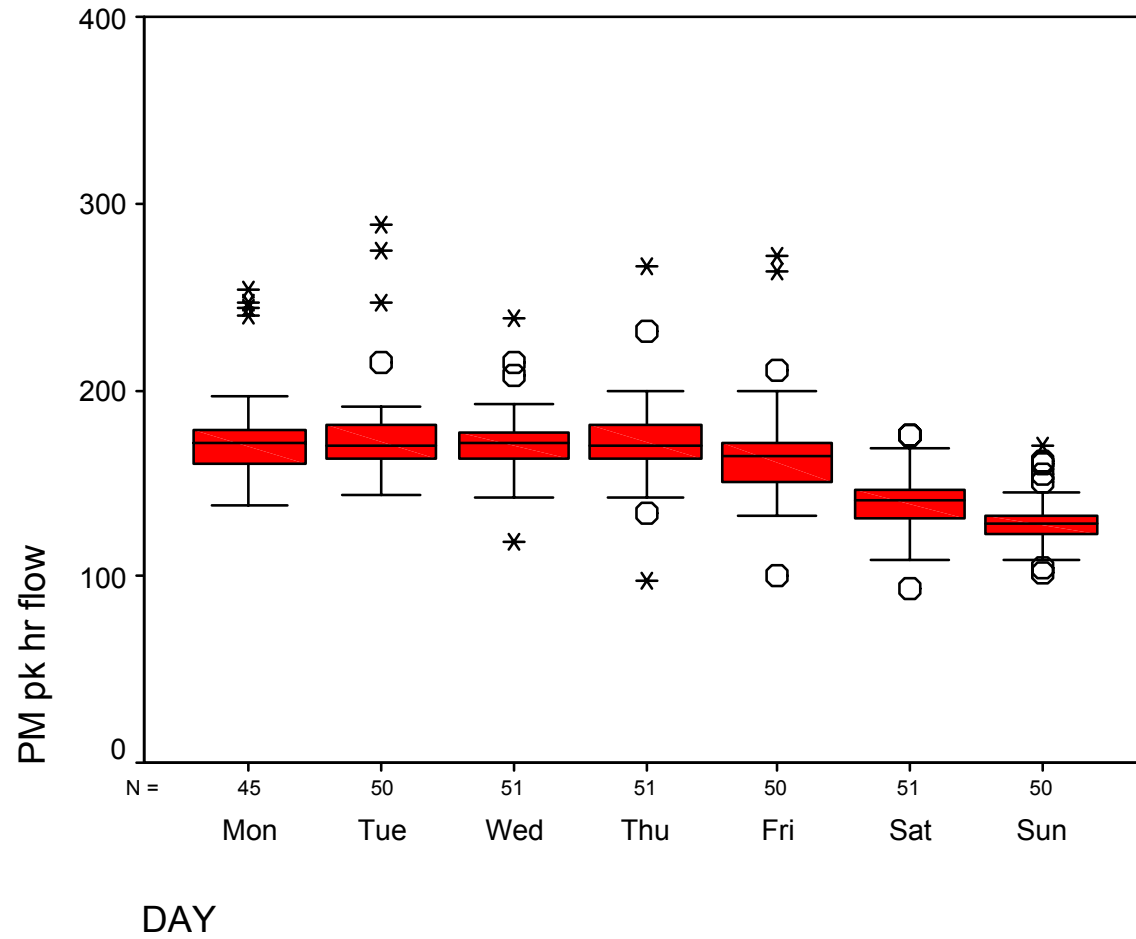


Figure D13 PM Peak-hour Traffic Flow for Badger Farm Meadow Way, by month

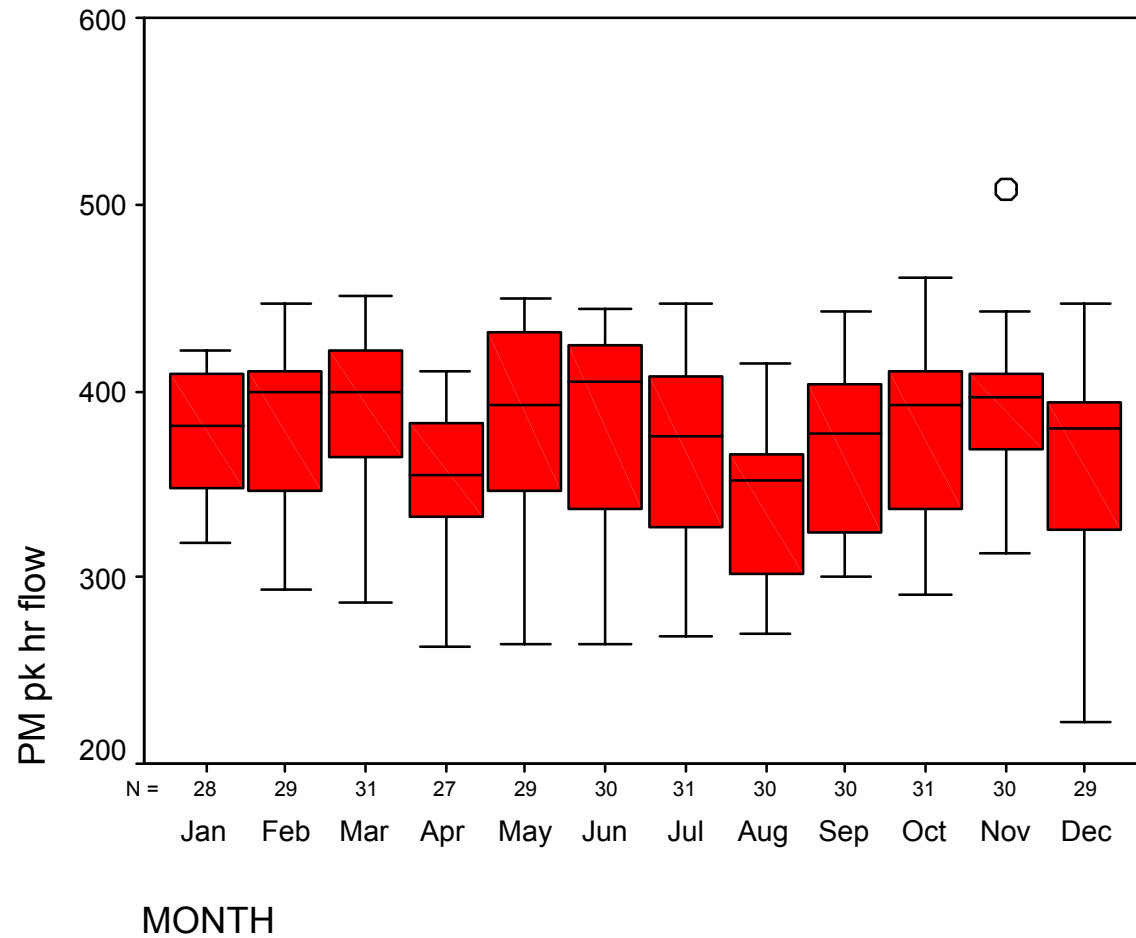


Figure D14 PM Peak-hour Traffic Flow for Badger Farm Meadow Way, by day of week

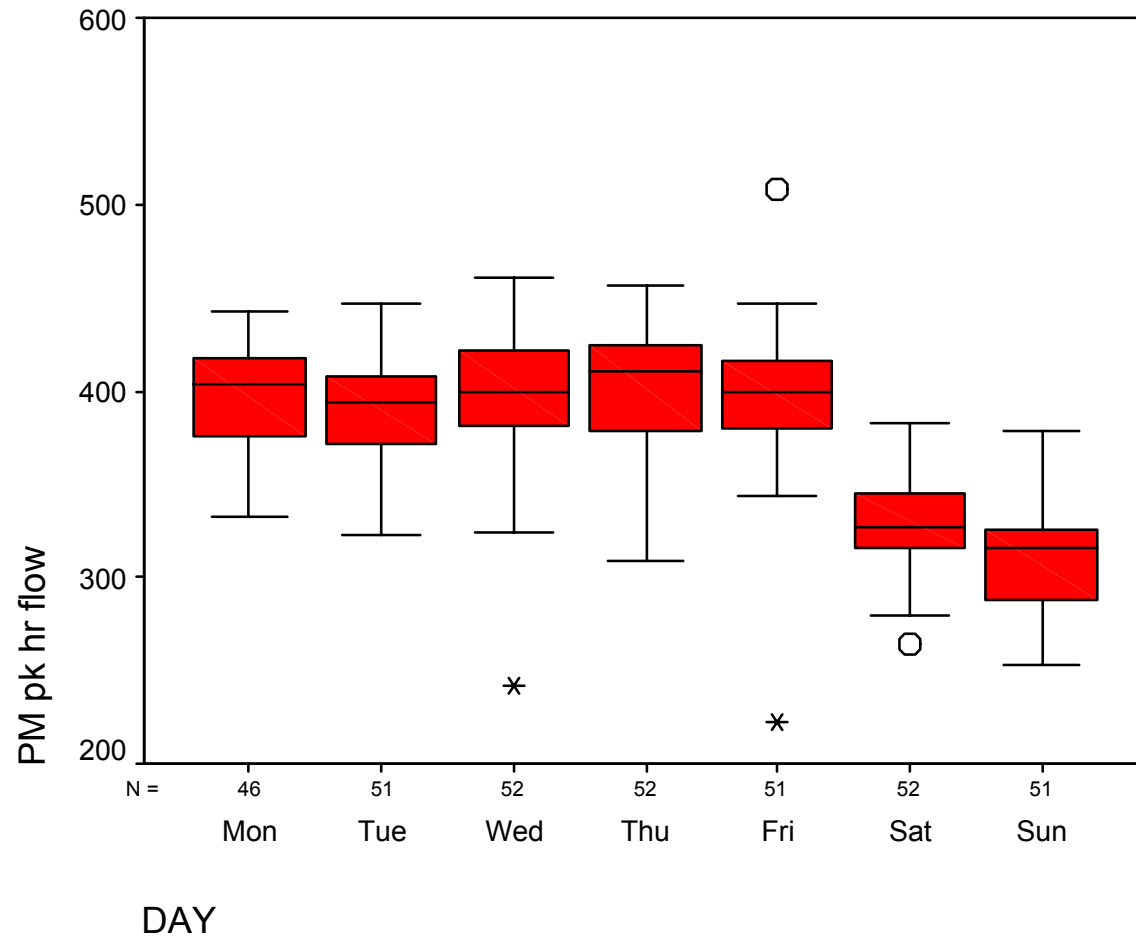


Figure D15 PM Peak-hour Traffic Flow for Bridport Golf Club, by month

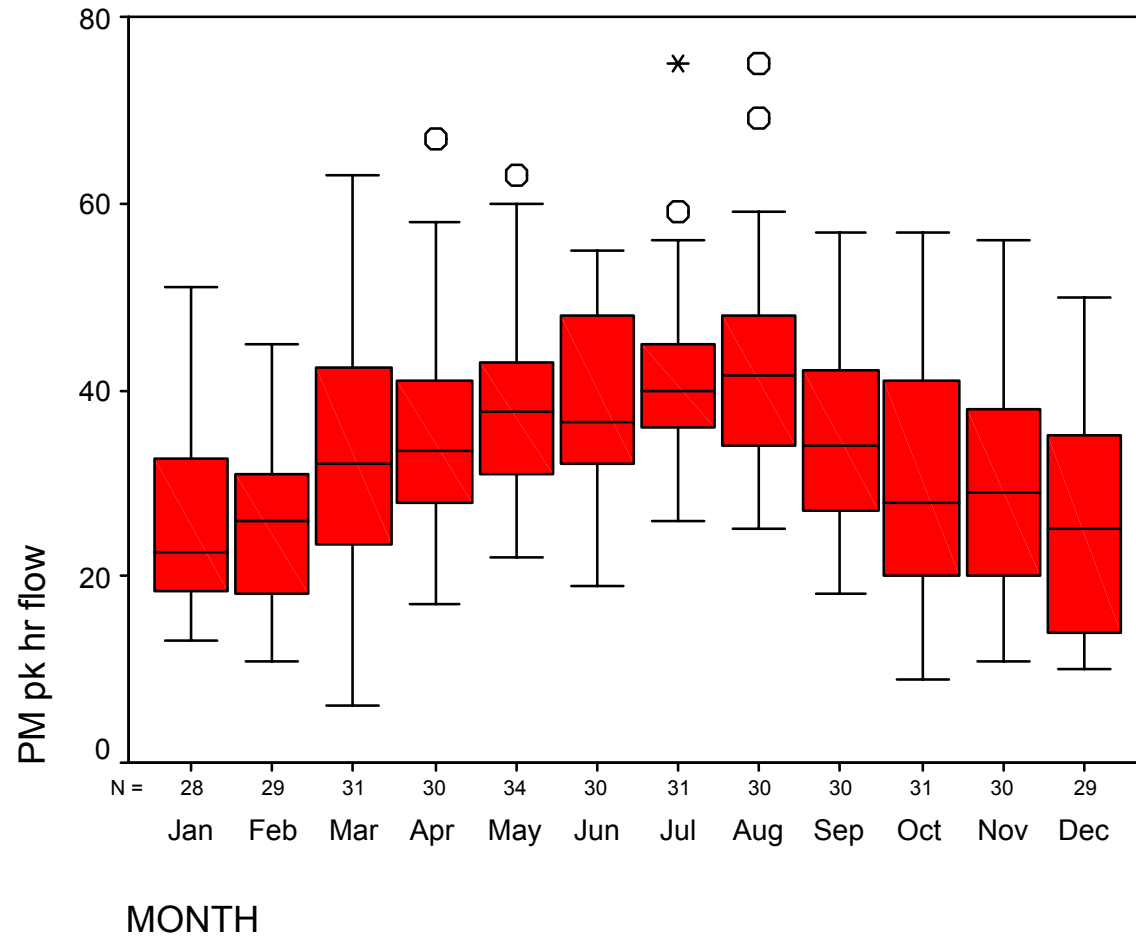


Figure D16 PM Peak-hour Traffic Flow for Bridport Golf Club, by day of week

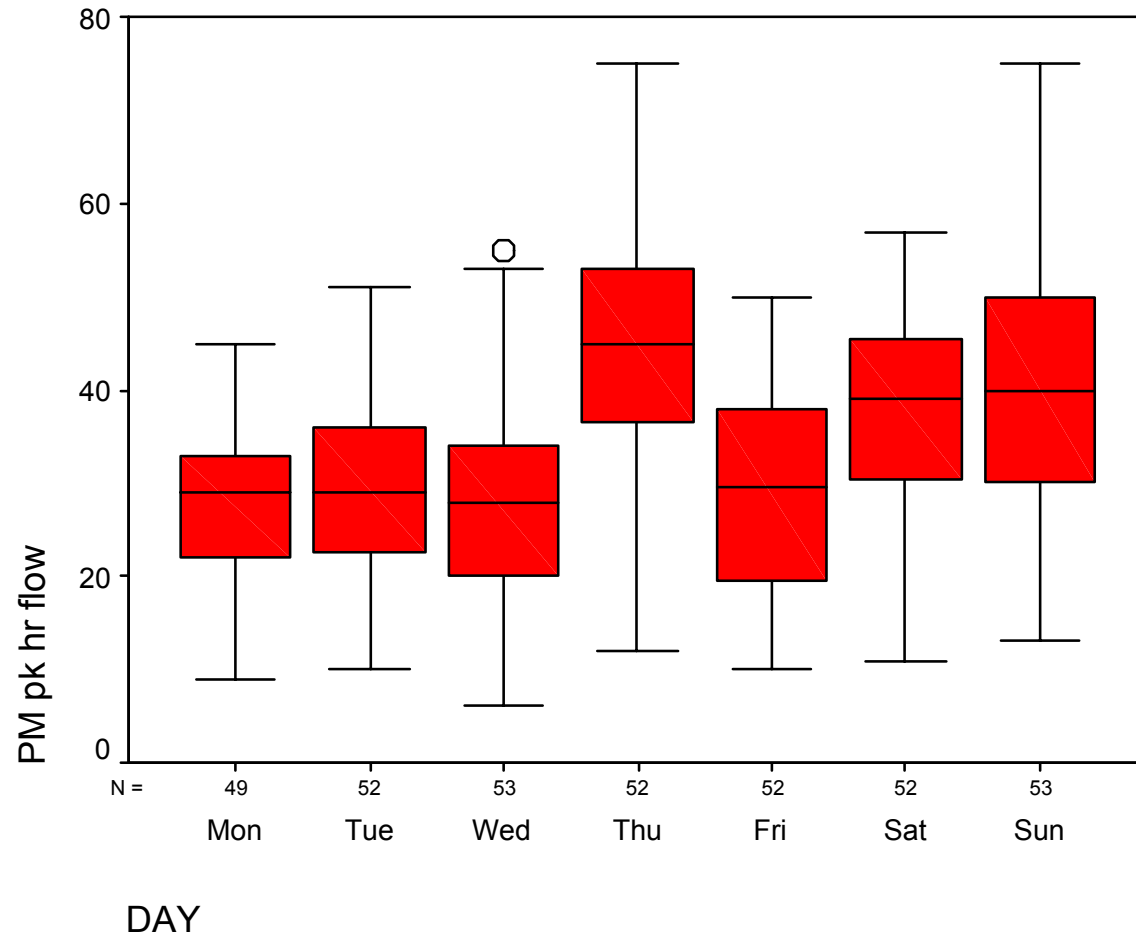


Table D1 Occurrence of PM Peak Hour for Tesco Bournemouth

<u>OVERALL</u>	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	60	9	14	19	18	82	112	9					323
percentage	18.6	2.8	4.3	5.9	5.6	25.4	34.7	2.8	0.0	0.0	0.0	0.0	
<u>By MONTH</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Jan	8		3	4	3	8	4						
Feb	6		3	4	1	7	7						
Mar	2	2			2	3	15	7					
Apr	8				1	11	6						
May	5					8	16						
Jun	5			1	1	8	15						
Jul	7				2	8	14						
Aug	5			1	1	7	14						
Sep	6	2			2	13	7						
Oct	2	2	2	2	3	9	10	1					
Nov													
Dec	6	3	6	7	2		4	1					
<u>By DAY</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Mon	4	1			2	9	23	3					
Tue	10		1	1	1	11	22	1					
Wed	5	1	1	1	1	9	26	3					
Thu	6		1	4		10	23	2					
Fri	4		2	3	7	19	12						
Sat	4	2	2	5	5	24	6						
Sun	27	5	7	5	2								

Table D2 Occurrence of PM Peak Hour for Tesco Poole

<u>OVERALL</u>	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	38	43	46	4	11	70	100	7					319
percentage	11.9	13.5	14.4	1.3	3.4	21.9	31.3	2.2	0.0	0.0	0.0	0.0	
<u>By MONTH</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Jan		5	9		1	1	10						
Feb		5	7		1	2	13	1					
Mar	2	4	9		1	3	11	1					
Apr	5	3	1			9	8						
May	4		3				19	2					
Jun	4	3	3			1	17	2					
Jul	4	4	3		1	5	11	1					
Aug	7	1			2	15	5						
Sep	6	7	1		2	12	2						
Oct	5	4	1	1		17	3						
Nov													
Dec	1	7	9	3	3	5	1						
<u>By DAY</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Mon	2	7	5			8	19	1					
Tue	2	10	7			9	16	2					
Wed		4	6			9	23	2					
Thu	3	2	6		1	12	20	2					
Fri	1	5	14	1	3	13	9						
Sat	3	5	5		3	19	13						
Sun	27	10	3	3	4								

Table D3 Occurrence of PM Peak Hour for Asda Gosport

<u>OVERALL</u>	peak hour (time)												Table Total	
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24		
frequency	176	85	35	9	14	1	34							354
percentage	49.7	24.0	9.9	2.5	4.0	0.3	9.6	0.0	0.0	0.0	0.0	0.0		

<u>By MONTH</u>	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Jan	18	6	4									
Feb	18	7	3				1					
Mar	16	8	2	1	1	1	2					
Apr	9	8	4		3		3					
May	14	6	1		2		5					
Jun	13	8	2				7					
Jul	16	7	1		2		5					
Aug	14	4	6	1	2		3					
Sep	11	5	2	4	3		5					
Oct	15	6	6		1		3					
Nov	16	10	1	3								
Dec	16	10	3									

<u>By DAY</u>	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Mon	29	11	1		1		4					
Tue	31	10	2		2		5					
Wed	26	11	3	1	2	1	8					
Thu	25	10	1	1	1		14					
Fri	9	30	2	1	6		3					
Sat	11	8	26	5	2							
Sun	45	5		1								

Table D4 Occurrence of PM Peak Hour for Southern Water

OVERALL	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	12	74	5	1	19	206	1	1	3	11	1		334
percentage	3.6	22.2	1.5	0.3	5.7	61.7	0.3	0.3	0.9	3.3	0.3	0.0	

By MONTH	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Jan		8			1	17				1		
Feb	3	5				20						
Mar	1	8			1	21						
Apr	1	8			1	14				1		
May	1	4	1		1	17		1	1	1		
Jun	1	5			3	19				1	1	
Jul	2	6	1		2	16	1			1		
Aug	2	3	1	1	4	15			1			
Sep		10	2		1	16						
Oct		6			1	19				4		
Nov		6			1	20			1	1		
Dec	1	5			3	12				1		

By DAY	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Mon						42						
Tue		2				45						
Wed						49						
Thu						47						
Fri		8			19	23						
Sat	1	46	1						2			
Sun	11	18	4	1			1	1	1	11	1	

Table D5 Occurrence of PM Peak Hour for Dorset County Hospital

<u>OVERALL</u>	peak hour (time)												Table Total	
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24		
frequency	16	33	287	13	6									355
percentage	4.5	9.3	80.8	3.7	1.7	0.0	0.0	0.0	0.0	0.0	0.0	0.0		
<u>By MONTH</u>	peak hour (time)													
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24		
Jan			26	2										
Feb			28		1									
Mar		1	27	1	2									
Apr		4	22		1									
May	3	5	20	1										
Jun	1	5	23	1										
Jul	4	3	22	2										
Aug	3	4	22	1										
Sep	2	3	25											
Oct	1		30											
Nov		3	23	3	1									
Dec	2	5	19	2	1									
<u>By DAY</u>	peak hour (time)													
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24		
Mon		2	37	7										
Tue			48	3										
Wed			50	2										
Thu		8	42	1	1									
Fri	12	4	35											
Sat		13	39											
Sun	4	6	36		5									

Table D6 Occurrence of PM Peak Hour for Badger Farm Ridge Way

<u>OVERALL</u>	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	41	9	3	6	15	126	126	22					348
percentage	11.8	2.6	0.9	1.7	4.3	36.2	36.2	6.3	0.0	0.0	0.0	0.0	

<u>By MONTH</u>	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Jan	3	1		1	1	7	8					
Feb	3	1		1	1	9	13	1				
Mar	3				1	13	13	1				
Apr	5	2				10	9	1				
May	5		1	1		13	8	1				
Jun	2	1			1	9	16	1				
Jul	4	1			2	9	11	4				
Aug	4					11	12	3				
Sep	1				3	12	10	4				
Oct	3	1			3	18	6					
Nov	4			1	1	9	13	2				
Dec	4	2	2	2	2	6	7	4				

<u>By DAY</u>	peak hour (time)											
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24
Mon						30	15					
Tue					1	24	24	1				
Wed					2	13	34	2				
Thu						23	27	1				
Fri			1	1		22	17	9				
Sat	18	8	2		2	7	6	8				
Sun	23	1		5	10	7	3	1				

Table D7 Occurrence of PM Peak Hour for Badger Farm Meadow Way

<u>OVERALL</u>	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	68	17	5	3	5	149	108						355
percentage	19.2	4.8	1.4	0.8	1.4	42.0	30.4	0.0	0.0	0.0	0.0	0.0	
<u>By MONTH</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Jan	7		1			12	8						
Feb	3	2	1		1	9	13						
Mar	5	1				15	10						
Apr	4	4			1	12	6						
May	6			1		11	11						
Jun	5	1	1	1		12	10						
Jul	8	1	1			12	9						
Aug	7	1				14	8						
Sep	5	1				15	9						
Oct	5	2	1		1	17	5						
Nov	7	1				10	12						
Dec	6	3		1	2	10	7						
<u>By DAY</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Mon						40	6						
Tue						33	18						
Wed						23	29						
Thu					1	15	36						
Fri				1	1	32	17						
Sat	26	14	1		3	6	2						
Sun	42	3	4	2									

Table D8 Occurrence of PM Peak Hour for Bridport Golf Club

<u>OVERALL</u>	peak hour (time)												Table Total
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
frequency	175	48	35	42	15	33	8	4		2	1		363
percentage	48.2	13.2	9.6	11.6	4.1	9.1	2.2	1.1	0.0	0.6	0.3	0.0	
<u>By MONTH</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Jan	12	5	2	7	2								
Feb	15	5	1	3	3	1	1						
Mar	19	1	2	4	2	2					1		
Apr	13	5	3	6		3							
May	20	2	4	3	1	2	2						
Jun	11	4	6		1	5	2	1					
Jul	11	6	1	3		7	1			2			
Aug	17	2	5	2	1	3							
Sep	14	1	5	3		5	2						
Oct	16	3	1	5	1	5							
Nov	11	8	4	4	2			1					
Dec	16	6	1	2	2			2					
<u>By DAY</u>	peak hour (time)												
	12 - 13	13 -14	14 - 15	15 - 16	16 - 17	17 - 18	18 - 19	19 - 20	20 - 21	21 - 22	22 - 23	23 - 24	
Mon	31	6	5			4	2	1					
Tue	4	2	5	31	3	7							
Wed	18	7	10	5	4	3	4			2			
Thu	34	12	2	1	1	1						1	
Fri	9	10	6	4	6	15		2					
Sat	44	1	1	1	1	3		1					
Sun	35	10	6				2						

Table D9 Mean Weekday PM peak-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,019	-2.6%	1,262	-4.2%	455	0.5%	169	-3.3%
Feb	1,058	1.1%	1,273	-3.3%	450	-0.7%	182	3.8%
Mar	1,041	-0.5%	1,318	0.1%	455	0.4%	173	-1.2%
Apr	1,060	1.3%	1,362	3.4%	461	1.8%	173	-1.4%
May	1,041	-0.5%	1,320	0.3%	448	-1.1%	184	4.9%
Jun	1,069	2.1%	1,344	2.1%	459	1.4%	167	-4.7%
Jul	1,049	0.3%	1,355	2.9%	438	-3.4%	172	-1.8%
Aug	1,050	0.3%	1,345	2.1%	437	-3.6%	165	-6.0%
Sep	983	-6.1%	1,272	-3.4%	406	-10.3%	164	-6.5%
Oct	1,009	-3.6%	1,311	-0.4%	456	0.6%	181	3.5%
Nov	.	-	.	-	457	0.9%	179	2.5%
Dec	1,148	9.7%	1,326	0.7%	522	15.2%	199	13.5%
Total	1,046		1,317		453		175	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	450	5.2%	171	-0.5%	398	0.6%	24	-23.7%
Feb	450	5.1%	167	-2.9%	403	1.7%	23	-27.5%
Mar	444	3.7%	173	0.6%	412	4.2%	29	-8.8%
Apr	452	5.5%	167	-2.9%	372	-5.9%	33	4.7%
May	426	-0.4%	178	3.6%	406	2.6%	36	13.6%
Jun	416	-2.9%	172	0.0%	413	4.3%	38	19.9%
Jul	410	-4.2%	173	0.5%	397	0.3%	41	29.7%
Aug	397	-7.3%	154	-10.8%	360	-9.2%	42	30.5%
Sep	409	-4.5%	170	-1.0%	391	-1.3%	33	3.3%
Oct	429	0.2%	215	25.1%	404	2.1%	28	-11.5%
Nov	436	1.8%	166	-3.7%	409	3.3%	28	-12.3%
Dec	423	-1.3%	155	-10.0%	379	-4.4%	24	-23.6%
Total	428		172		396		32	

Table D10 Mean Saturday PM peak-hour traffic flow, by month

	site							
	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,350	8.1%	1,531	0.9%	647	8.8%	42	9.3%
Feb	1,318	5.5%	1,525	0.5%	606	1.9%	35	-7.8%
Mar	1,216	-2.7%	1,517	0.0%	579	-2.7%	45	19.1%
Apr	1,263	1.1%	1,564	3.1%	598	0.5%	41	7.3%
May	1,172	-6.2%	1,507	-0.7%	564	-5.3%	39	1.4%
Jun	1,247	-0.2%	1,516	-0.1%	553	-7.0%	46	21.8%
Jul	1,250	0.1%	1,526	0.6%	565	-5.0%	32	-16.3%
Aug	1,172	-6.2%	1,528	0.7%	581	-2.3%	36	-4.6%
Sep	1,191	-4.6%	1,471	-3.0%	560	-5.8%	26	-30.5%
Oct	1,224	-2.0%	1,533	1.0%	624	4.9%	39	2.7%
Nov	.	-	.	-	625	5.1%	47	23.1%
Dec	1,329	6.4%	1,480	-2.5%	640	7.6%	33	-13.8%
Total	1,249		1,517		595		38	

	site							
	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	295	19.3%	140	0.8%	347	5.8%	29	-21.4%
Feb	271	9.7%	141	1.3%	328	0.0%	34	-9.9%
Mar	261	5.8%	146	5.3%	337	2.8%	41	10.2%
Apr	246	-0.3%	141	1.8%	318	-3.0%	39	5.5%
May	245	-0.9%	143	2.8%	321	-1.9%	43	16.7%
Jun	239	-3.2%	133	-4.1%	322	-1.7%	40	7.5%
Jul	245	-1.0%	144	3.4%	322	-1.7%	41	11.3%
Aug	216	-12.5%	115	-17.4%	288	-12.2%	41	10.2%
Sep	228	-7.8%	134	-3.7%	324	-1.0%	44	18.8%
Oct	241	-2.3%	161	16.1%	328	0.1%	34	-7.9%
Nov	232	-6.3%	143	3.0%	354	8.0%	29	-22.7%
Dec	251	1.5%	128	-7.7%	344	4.9%	28	-24.2%
Total	247		139		327		37	

Table D11 Mean Sunday PM peak-hour traffic flow, by month

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	1,394	5.0%	1,539	-2.0%	656	3.1%	23	72.3%
Feb	1,402	5.6%	1,522	-3.0%	620	-2.6%	23	74.2%
Mar	1,275	-4.0%	1,568	-0.1%	596	-6.3%	21	55.3%
Apr	1,273	-4.1%	1,606	2.3%	586	-7.8%	8	-39.4%
May	1,312	-1.2%	1,583	0.9%	634	-0.3%	20	47.7%
Jun	1,272	-4.2%	1,622	3.4%	636	0.0%	12	-7.2%
Jul	1,317	-0.8%	1,584	1.0%	652	2.6%	13	1.5%
Aug	1,256	-5.4%	1,534	-2.3%	611	-3.9%	6	-54.6%
Sep	1,213	-8.6%	1,521	-3.1%	609	-4.2%	6	-54.6%
Oct	1,287	-3.1%	1,569	0.0%	669	5.2%	9	-30.3%
Nov	.	-	.	-	659	3.6%	8	-43.2%
Dec	1,547	16.5%	1,603	2.2%	680	7.0%	11	-19.2%
Total	1,327		1,569		636		13	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Jan	241	14.6%	138	7.0%	324	4.5%	33	-18.3%
Feb	229	9.0%	128	-0.8%	317	2.2%	32	-18.9%
Mar	211	0.6%	132	2.3%	321	3.3%	50	25.7%
Apr	215	2.4%	129	0.0%	304	-2.1%	43	8.1%
May	202	-3.7%	134	3.8%	318	2.6%	48	19.7%
Jun	181	-13.8%	118	-8.7%	298	-4.1%	39	-1.3%
Jul	199	-5.3%	123	-4.7%	282	-9.1%	44	10.6%
Aug	175	-16.6%	111	-14.0%	282	-9.2%	47	18.8%
Sep	201	-4.4%	125	-3.5%	316	1.9%	35	-12.6%
Oct	216	2.6%	155	19.6%	307	-0.9%	36	-9.5%
Nov	228	8.6%	132	1.7%	335	7.8%	40	-0.1%
Dec	221	5.3%	125	-3.6%	324	4.4%	30	-23.6%
Total	210		129		310		40	

Table D12 Mean PM peak-hour traffic flow, by day of week

	Tesco Bournemouth		Tesco Poole		Asda Gosport		Southern Water	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	1,050	0.4%	1,309	-0.6%	422	-6.9%	184	4.9%
Tuesday	981	-6.2%	1,256	-4.6%	415	-8.5%	184	5.0%
Wednesday	1,016	-2.9%	1,265	-3.9%	431	-5.0%	184	5.3%
Thursday	1,040	-0.7%	1,336	1.4%	456	0.7%	180	2.9%
Friday	1,145	9.4%	1,416	7.6%	538	18.8%	146	-16.8%
Saturday	1,249	19.4%	1,517	15.2%	595	31.3%	38	-78.3%
Sunday	1,327	26.9%	1,569	19.2%	636	40.4%	13	-92.5%
Weekday	1,046		1,317		453		175	
Total	1,117		1,384		500		131	

	Dorset County Hospital		Badger Farm Ridge Way		Badger Farm Meadow Way		Bridport Golf Club	
	mean	% var'n	mean	% var'n	mean	% var'n	mean	% var'n
Monday	452	5.5%	175	1.9%	398	0.4%	28	-12.9%
Tuesday	460	7.5%	176	2.4%	388	-2.0%	29	-8.3%
Wednesday	442	3.3%	171	-0.6%	398	0.5%	29	-10.4%
Thursday	414	-3.3%	171	-0.5%	400	1.0%	44	38.1%
Friday	375	-12.5%	167	-3.0%	396	0.1%	30	-7.1%
Saturday	247	-42.3%	139	-19.3%	327	-17.3%	37	16.8%
Sunday	210	-50.9%	129	-24.9%	310	-21.7%	40	24.9%
Weekday	428		172		396		32	
Total	370		161		374		34	