

Traffic Audit Report A359
High Street, Queen Camel
16th May 2019

Audit No. 2



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1.00 Audit Findings

1.01 Key Outcomes

This audit finds that traffic levels have increased in the two year period since the first audit conducted 11th May 2017 by 4.2% or plus 287 movements and at peak evening rush hour by 91 movements or 13% and HGV's by 12%.

1.02 Audit Context

The audit was conducted over the 12 hour period 06.30 to 18.30 on Thursday the 16th May 2019 to provide a like-for-like reading of the audit conducted 11th May 2017. Working in pairs the auditors manually recorded the vehicle volumes and category mix for one lane one hour each.

1.03 <u>Traffic Count</u>	<u>2017</u>	<u>2019</u>	<u>Change</u>	<u>%</u>	<u>Share</u>
Car based	6,005	6,122	117	2	86
Light Goods	717	875	158	26	12
Heavy Goods	100	112	12	12	1.6
Farming	12	22	10	83	0.39
Emergency	12	2	(10)	16	0.00
Total	6,846	7,133	287	4.2	100

1.04 <u>Peak Traffic</u>	<u>07.00-09.00</u>	<u>16.00-18.00</u>	<u>Total</u>	<u>Audit %</u>
<u>2017</u>	1,300	1,499	2,799	41.0
2019	1,357	1,618	2,975	41.7
<u>Change</u>	57	119	176	0.7
<u>%</u>	4.4	7.9	6.3	1.7

1.05 A303 to Yeovil and Yeovil to A303 Traffic Flows

<u>All Traffic</u>	<u>N >>> S</u>	<u>N <<< S</u>	<u>Total</u>
<u>2017</u>	3,442	3,404	6,846
2019	3,552	3,581	7,133
<u>Change</u>	110	177	287
<u>%</u>	3.2	5.2	4.2

1.06 Average Hourly Traffic Flow

<u>All Traffic</u>	<u>N >>> S</u>	<u>N <<< S</u>	<u>Over All</u>
<u>2017</u>	287	284	286
2019	296	298	297
<u>Change</u>	9	14	11
<u>%</u>	3.1	4.9	3.6

2.00 Audit Methodology

2.01 Audit Purpose

a) To establish the absolute number and type of vehicles using the A359 Queen Camel High Street on a normal working day for the basis of future comparison.

b) To use the 2019 data generated to compare with the identical audit conducted on the 11th May 2017 for any variances.

c) To establish an up-to-date peak time traffic benchmark or norm against which future adverse or abnormal traffic increases (A303 dualising) can be compared to build the case for improved traffic calming measures.

2.02 Audit Aim

To monitor all traffic movements between the twelve hours 06.30 to 18.30 applying visually five vehicle category identities manually recorded.

Cars, Car Based

Light Goods 4 Axles

Heavy Goods 4+ Axles*

Farm & Farming Related

Emergency Response

2.03 Audit Objective

To record the traffic movement using paired auditors each monitoring the traffic in one direction only.

2.04 Audit Location

As in 2017, to use the drive area to the front of Wren Cottage to the side of the A359 Queen Camel High Street with its clear views in either direction and legal speed limit of 20 MPH.

2.05 Auditors Observations

The auditors were concerned that the definition of HGV 4+ axles was too limited and should include vehicles with twin rear tyres on each axle into the HGV definition.

Example some coaches, Somerset Waste collection, Bradfords building supply materials and Hunts wholesale delivery lorries. The outcome of this broader definition helped to increase the HGV numbers from 100 in 2017 to 112 in 2019 by 12 or plus 12%.

2.06 Audit Traffic Team

I would like to thank the following team of volunteer auditors for giving-up their time to record this audit and to Pauline for making the wheels go round during the day.

Alan Cole
Sue Cole
Angus Davidson
Philippa Davidson
Marian Davis
Paul Davis
Allan Drake
Alison Drake
Olivia Enever
Vivian Enever
Pauline Farror
Peter Farror
Sue Howman
Mike Ford
Morwenna Ford
Sue Gare
David Perkins
Lorraine Perkins
Debbie Symonds
Julian Wignall

TABLES 1 & 2

Data Collected: 16/05/2019

QUEEN CAMEL A359 TRAFFIC COUNT

Location: Wren Cottage, High Street, Queen Camel

Table 1 Direction of Traffic: A303 to Yeovil Southwards

16 May 2019

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL	Share %
Cars & Car Based	50	239	371	244	234	195	166	213	221	267	325	370	151	3,046	86
LGVs 4 Axles	10	36	35	22	17	34	38	27	30	54	77	41	22	443	12
HGVs 4+ Axles	2	2	13	2	4	3	4	6	4	7	--	5	--	52	1.5
Farm Equip.	--	--	--	1	2	1	--	1	1	2	1	1	--	10	0.4
999 Emergency	--	--	--	--	--	--	--	--	--	--	--	1	--	1	.09
Total 2019	62	277	419	269	257	233	208	247	256	330	403	418	173	3,552	100%

Table 2 Two Year Comparison: A303 to Yeovil Southwards

16 May 2019

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL
Total May 2019	62	277	419	269	257	233	208	247	256	330	403	418	173	3,552
Total May 2017	50	277	414	293	258	231	230	218	251	287	373	401	159	3,442
Difference + (-)	12	---	5	(24)	(1)	2	(22)	29	5	43	30	17	114	110
Difference %	24	---	1.2	8	0.4	0.9	10	13	2	15	8	4	9	3

LGV - Light Goods Vehicle = 4 Axles

Axle - is a wheel mounting point

HGV - Heavy Goods Vehicle = 4+ Axles

TABLES 3 & 4

Data Collected: 16/05/2019 QUEEN CAMEL A359 TRAFFIC COUNT Location: Wren Cottage, High Street, Queen Camel

Table 3 Direction of Traffic: Yeovil to A303 Northwards 16 May 2019

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL	Share %
Cars & Car Based	106	268	281	197	196	203	258	238	232	280	329	363	125	3,076	86
LGVs 4 Axles	9	48	49	40	17	32	23	29	37	32	57	40	19	432	12
HGVs 4+ Axles	--	6	9	4	5	6	7	2	12	4	4	--	1	60	1.7
Farm Equip.	--	--	--	--	2	2	--	1	2	1	1	3	--	12	0.3
999 Emergency	--	--	--	--	--	--	--	--	--	--	--	--	1	1	.03
Total 2019	115	322	339	241	220	243	288	270	283	317	391	406	146	3,581	100%

Table 4 Two Year Comparison: Yeovil to A303 Northwards 16 May 2019

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL
Total May 2019	115	322	339	241	220	243	288	270	283	317	391	406	146	3,581
Total May 2017	84	273	336	261	236	221	262	276	249	356	330	395	124	3,404
Difference +(-)	31	43	3	(20)	(16)	22	26	(6)	34	(39)	6	9	22	177
Difference %	37	16	0.1	8	7	10	10	2	14	11	18	2	18	5

LGV - Light Goods Vehicle = 4 Axles

Axle - is a wheel mounting point

HGV - Heavy Goods Vehicle = 4+ Axles

TABLES 5 & 6

Data Collected: 16/05/2019 QUEEN CAMEL A359 TRAFFIC COUNT Location: Wren Cottage, High Street, Queen Camel

Table 5 **A359 Both Directions 12 Hours Traffic Comparison 2019** **16 May 2019**

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL
A303 to Yeovil	62	277	419	269	257	233	208	247	256	330	403	418	173	3,552
Yeovil to A303	115	322	339	241	220	243	288	270	283	317	391	406	146	3,581
COMBINED TOTAL	177	599	758	510	477	476	496	517	539	647	794	824	319	7,133

Table 6 **A359 Year-on-Year Comparison: 2017 and 2019 Combined Two Direction Traffic Flows** **16 May 2019**

START TIMES	06.30	07.00	08.00	09.00	10.00	11.00	12.00	13.00	14.00	15.00	16.00	17.00	18.00-30	TOTAL
COMBINED 2019	177	599	758	510	477	476	496	517	539	647	794	824	319	7,133
COMBINED 2017	134	550	750	554	494	452	492	494	500	643	703	796	284	6,846
Difference +(-)	43	49	8	(44)	(17)	24	4	23	39	4	91	28	35	287
Difference %	24	9	1	8	3	5	1	5	8	0.6	13	3.5	12	4.2

TABLE 7

Data Collected: 16/05/2019 QUEEN CAMEL A359 TRAFFIC COUNT Location: Wren Cottage, High Street, Queen Camel

Table 7 **A359 Three Audits Comparison By Vehicle Category** **16 May 2019**

VEHICLE CATEGORY	*2001	*2017	Change	%	Share %	*2019	Change	%	Share %
Unclassified	5,668	-----	-----	-----%	----- %	-----	-----	----- %	----- %
Cars & car Based	-----	6,005	-----	-----%	87.6 %	6,122	117	2%	86%
LGV's 4 Axles	-----	717	-----	-----%	10.5 %	875	158	26%	12%
HGV's 4+ Axles**	96	100	4	4.0%	1.5 %	112	12	12%	1.6%
Farm Equip	-----	12	-----	-----%	0.2 %	22	10	83%	0.3%
999 Response	-----	12	-----	-----%	0.2 %	2	(10)	16 %	0.03%
TOTALS	5,764	6,846	1,082	19%	100 %	7,133	287	4.2%	100 %

*NB The 2001 SCC data only identifies HGVs from the total traffic recorded.

*NB The 2017 HGV's data is exclusively 4+ axles per vehicle

*NB The 2019 HGV's data also includes vehicles with twin tyres on a single rear axle e.g. Somerset Waste collection, Bradford Building Supply materials and some private coaches/buses.

A359 Queen Camel High Street Growth Traffic Projections 2019 - 2034

Consolidated data gathered from two Traffic Audits conducted on a Thursday in mid-May each year

Table 1

2017	6,846	baseline for assessing traffic volume and future changes counted during the period 06.30 – 18.30
2019	7,133	an increase of + 287 or plus 4.2% in a two year period using like-for-like data gathering techniques

Therefore if we project Total Traffic change @ + 4.2% every two years the model predicts the following daily movements

Table 2

2021	+ 299	7,432	
2023		+ 312	7,744
2025			+ 325 8,069
2027			+ 339 8,407
2029			+ 353 8,760
2031			+ 368 9,127
2033			+ 383 9,510
2035			+ 399 9,909

This data projection makes no attempt to allow for the potential pressures that dualling of the A303 construction work may bring to the village.

Consolidated data drawn from the Peak Period only from the two and a half hours 16.00 – 18.30

Table 3

2017 1,783 baseline for assessing traffic volume and future changes counted during the period 16.00 – 18.30
2019 1,937 an audit on audit increase of + 154 or 8.6%, and 54% of the traffic increase audit-on-audit and double the rate of increase over the full twelve hour traffic count.

Thus projecting Peak Period traffic change @ + 8.6% every two years the model predicts the following peak movements

Table 4

2021	+ 154	2,091		
2023		+ 180	2,271	
2025			+ 195	2,466
2027				+ 212 2,678
2029				+ 230 2,908
2031				+ 259 3,258
2033				+ 271 3,529
2035				+ 303 3,832

At 3,832 vehicle movements in 2 ½ hours this is more than half of the total recorded traffic from the 2017 twelve hours audit and 76% of the 399 bi-annual increase projected between 2033 and 2035.

Peter Farror

07/06/2019