



Castle Acre
Traffic Survey.
14th-20th
February
2019

Castle Acre
Neighbourhood
Plan

Castle Acre Traffic Survey.

As part of the research for the Castle Acre Neighbourhood Plan the Steering Group undertook a Traffic Survey. The aim of the survey was to help identify issues relating to traffic and transport and their potential inclusion in the Neighbourhood Plan . The survey will provide empirical and statistical (quantitative) data which will compliment the anecdotal (qualitative) evidence that has been collected from the Neighbourhood Plan Questionnaire and the Public Event organised by the Steering Group.

The Castle Acre Traffic survey was carried out between the 14th and 20th February 2019.

Traffic counts were conducted at the following 7 locations over 65 two hour observation sessions;

- | | |
|--------------------|-------------|
| 1. Massingham Road | 10 sessions |
| 2. St Jame's Green | 6 sessions |
| 3. Stocks Green | 14 sessions |
| 4. Newton Road | 13 sessions |
| 5. Back Lane | 6 sessions |
| 6. Bailey Street | 13 sessions |
| 7. North Street | 3 sessions |

The survey was carried out by 24 volunteers.

Movements of the following vehicle types were recorded;

1. Cars
2. Vans
3. Lorries
4. Buses
5. Campers
6. Motorbikes
7. Bicycles
8. Agricultural vehicles
9. Pedestrians

The survey spanned parts of two consecutive weeks and the intervening weekend, Thursday and Friday of the 1st week and Monday to Wednesday of the 2nd week. The w/b 18th February was the school 1/2 term holiday.

The sessions covered morning, afternoon and evening sessions to get access to 'rush hour' data and more general traffic movements outside of those periods.

General information / Findings.

Over the Survey Period, 130 hours there were;

8328 recorded vehicle movements

1803 recorded pedestrian movements

10131 recorded vehicle and pedestrian movements

Total movements by vehicle type

Cars	82%	
Vans	13%	
Lorries	2%	
Buses	1%	
Campers	0.2%	
Motorcycles	0.4%	
Cycles	1.8%	
Agricultural	0.3%	
Pedestrians	18%	(as part of total movements)

Movement of Commercial/Agricultural/Working Vehicles

90%+ of the movements by lorries, vans, buses and agricultural vehicles were recorded on weekdays

18% of total vehicle movements were by this class of vehicle

79% of movements by this class of vehicle were on Massingham and Newton Road

10% of the movements were on Bailey Street. **92%** of the commercial vehicles on Bailey Street were vans not larger vehicles.

Movement of Pedestrians

The majority of pedestrian movements, **79%** occurred near to the village centre, ie. on Stocks Green, Bailey Street and Back Lane. **46%** of pedestrian movements occurred at the weekend. **28%** on Sunday. An average of **11%** of the pedestrian footfall occurred on each of the weekdays.

A considerable % of those on foot were dog walking....28%

Movement of Traffic on road Types

Entry Roads on weekdays

Massingham Road	29% of 4606 movements
Newton Road	49% of 4060 movements
Bailey Street	22% of 4060 movements

Other Roads on weekdays

St James Green	30% of 2197 movements
Stocks Green	43% of 2197 movements
Back Lane	26% of 2197 movements

All Roads on weekdays

Massingham Road	19% of 6803 movements
Newton Road	33% of 6803 movements
Bailey Street	15% of 6803 movements
St James Green	10% of 6803 movements
Stocks Green	14% of 6803 movements
Back Lane	8% of 6803 movements

Traffic Survey Summary points. Additional to data already included. M.T 30th June 2019.

The Castle Acre Traffic survey has provided the Village with empirical data and evidence that can be used in relation to specific site allocations and ongoing projects. More such data can be gathered when necessary as specific issues demand, eg, improving safety in specific locations where the safe movement of vehicles and pedestrians is compromised.

In summary most pedestrian movements occur in or close to the village centre where there is considerable traffic movement, areas of poor visibility, restricted and narrow roads and poor or no footpaths. This collection of factors makes the village centre a potentially dangerous location especially if vehicles are travelling too fast, parking too close to junctions and on restricted roads with poor visibility.

The speed of vehicles on some roads is an issue both close to the village centre and on some of the outlying lanes.

For their own convenience some road users have taken to ignoring traffic prohibition notices such as ‘No Entry’ signs and ignoring common sense regulations such as; **Laws RTA 1988 sect 22 & CUR reg 103 Rule 243** which states that one should not park opposite or within 10 metres (32 feet) of a junction.

Evidence gathered at more popular visitor periods indicates a significant increase in parking, not just in designated spaces but also on narrow lanes, pathways, verges and Village Greens. At these times there is also an increase in visitor traffic and pedestrians using the village roads and pathways thus increasing the risk of accident.

Development in and around the village must provide off road parking for the residents of new properties but also look to the broader issues of safety generated by the location of new development and the impact of increased traffic flow at identified ‘pinch points’ such as the junctions between Massingham Road and Back Lane and Bailey Street, Stocks Green and High Street.

Where traffic issues relate directly to new build they will be considered in the planning process for that new development. Where there are more widespread issues such as public parking provision, impact on historic and natural environments then the Parish Council will undertake the necessary work and try to promote positive change via specific projects and where appropriate engage the support of bodies such as BCKLWN, Highways, Norfolk County Council, Historic England, etc.

Information to consider, extrapolate or further gather;

1. Cars with one occupant...%age
2. Pub users and workers using roadside parking on Stocks Green
3. Dog walkers driving into village and using Stocks Green to park.
4. Local trips only
5. Driving offences (regular) speeding, ignoring No entry signs.
6. On Road Parking
7. Tourist season.

What follows are the spreadsheets created from the Traffic Survey Observations.

CARS				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	1033	313	0	1346
St Jame's Green	480	0	196	676
Stocks Green	407	190	214	811
Newton Road	1755	0	421	2176
Back Lane	378	0	0	378
Bailey Street	909	79	218	1206
North Street	139	78	0	217
TOTAL	5101	660	1049	6810
PERCENTAGES	75%	10%	15.00%	

VANS				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	214	25	0	239
St Jame's Green	93	0	6	99
Stocks Green	58	4	4	66
Newton Road	376	0	20	396
Back Lane	53	0	0	53
Bailey Street	107	3	19	129
North Street	48	15	0	63
TOTALS	949	47	49	1045
PERCENTAGES	91%	4.5%	4.7%	

Lorries				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	31	0	0	31
St Jame's Green	7	0	0	7
Stocks Green	4	0	0	4
Newton Road	53	0	0	53
Back Lane	6	0	0	6
Bailey Street	6	0	1	7
North Street	15	0	0	15
TOTALS	122	0	1	123
PERCENTAGES	99%	0%	1%	

Buses				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	19	1	0	20
St Jame's Green	6	0	0	6
Stocks Green	18	2	1	21
Newton Road	34	0	1	35
Back Lane	8	0	0	8
Bailey Street	2	0	0	2
North Street	1	1	0	2
TOTALS	88	4	2	94
PERCENTAGES	94%	4%	2%	

Campers				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	2	0	0	2
St Jame's Green	0	0	0	0
Stocks Green	1	0	3	4
Newton Road	4	0	0	4
Back Lane	0	0	0	0
Bailey Street	2	0	1	3
North Street	0	0	0	0
TOTALS	9	0	4	13
PERCENTAGES	69%	0%	31%	

Agricultural

	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	6	0	0	6
St Jame's Green	4	0	0	4
Stocks Green	0	0	0	0
Newton Road	12	0	2	14
Back Lane	0	0	0	0
Bailey Street	0	0	0	0
North Street	1	0	0	1
TOTALS	23	0	2	25
PERCENTAGES	92%	0%	8%	

Motorbikes				
	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	2	2	0	4
St Jame's Green	1	0	3	4
Stocks Green	0	2	0	2
Newton Road	12	0	5	17
Back Lane	1	0	0	1
Bailey Street	0	0	3	3
North Street	4	0	0	4
TOTALS	20	4	11	35
PERCENTAGES	57.1%	11.4%	31.4%	

Cycles

	Week Day	Saturday	Sunday	TOTAL
Massingham Rd	19	29	0	48
St Jame's Green	4	0	29	33
Stocks Green	16	17	5	38
Newton Road	6	0	4	10
Back Lane	5	0	0	5
Bailey Street	2	0	3	5
North Street	2	3	0	5
TOTALS	54	49	41	144
PERCENTAGES	37.5%	34%	28.5%	

Pedestrians					
	Week Day	Saturday	Sunday	TOTAL	PERCENTAGES by road
Massingham Rd	74	75	0	149	8.3%
St Jame's Green	59	0	48	107	6%
Stocks Green	452	236	403	1091	61%
Newton Road	41	0	5	46	2.6%
Back Lane	126	0	0	126	7%
Bailey Street	154	4	49	207	12%
North Street	56	15	0	71	4%
TOTAL	962	330	505	1797	
PERCENTAGES by day type	54%	18%	28%		

Total Traffic Movements by vehicle type					
	Weekdays	Saturday	Sunday	Totals	Percentages
Cars	5117	660	1049	6826	82%
Vans	953	47	49	1049	13%
Lorries	126	0	1	127	2%
Buses	96	4	2	102	1%
Campers	10	0	4	14	0.2%
Motor Cycles	20	4	11	35	0.4%
Cycles	57	49	41	147	1.8%
Agricultural	25	0	2	27	0.3%
Pedestrians	968	330	505	1803	
TOTALS	6404	764	1159	8327	
inc Peds	7372	1094	1664	10130	18%

Saturday totals by vehicle type											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	TOTALs	Totals exc. Pedestrians
Massingham Rd	313	25	0	1	0	2	29	0	75	445	370
St Jame's Green	0	0	0	0	0	0	0	0	0	0	0
Stocks Green	190	4	0	2	0	2	17	0	236	451	215
Newton Road	0	0	0	0	0	0	0	0	0	0	0
Back Lane	0	0	0	0	0	0	0	0	0	0	0
Bailey Street	79	3	0	0	0	0	0	0	4	86	82
North Street	78	15	0	1	0	0	3	0	15	112	97
TOTAL	660	47	0	4	0	4	49	0	330	1094	764
PERCENTAGES	86%	6%	0.00%	0.52%	0.00%	0.52%	6.00%	0.00%		764	exc. Pedestrians

Weekday Totals by vehicle type											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	TOTALs	Totals exc. Pedestrians
Massingham Rd	1043	214	35	27	3	2	22	8	80	1434	1354
St Jame's Green	480	103	7	6	0	1	4	4	59	664	605
Stocks Green	413	52	4	18	1	0	16	0	452	956	504
Newton Road	1755	376	53	34	4	12	6	12	41	2293	2252
Back Lane	378	53	6	8	0	1	5	0	126	577	451
Bailey Street	909	107	7	2	2	0	2	0	154	1183	1029
North Street	139	48	15	1	0	4	2	1	56	266	210
Totals	5117	953	127	96	10	20	57	25	968	7373	6405
										6405	exc. Pedestrians
PERCENTAGES	80%	15%	2.00%	1.50%	0.16%	0.30%	0.90%	0.40%			

**Total Traffic
and
Pedestrian
Movements**

	All Vehicles	By % age	Pedestrians	By % age	Vehicles & Pedestrians	By % age
Weekdays	6405	77%	968	54%	7373	73%
Saturday	764	9%	330	18%	1094	11%
Sunday	1159	14%	505	28%	1664	16%
Total	8328		1803		10131	

Sunday totals by vehicle type											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	TOTALs	Totals exc. Pedestrians
Massingham Rd	0	0	0	0	0	0	0	0	0	0	0
St Jame's Green	196	6	0	0	0	3	29	0	48	282	234
Stocks Green	214	4	0	1	3	0	5	0	403	630	227
Newton Road	421	20	0	1	0	5	4	2	5	458	453
Back Lane	0	0	0	0	0	0	0	0	0	0	0
Bailey Street	218	19	1	0	1	3	3	0	49	294	245
North Street	0	0	0	0	0	0	0	0	0	0	0
TOTAL	1049	49	1	2	4	11	41	2	505	1664	1159
PERCENTAGES	91%	4%	0.08%	0.17%	0.35%	0.95%	3.60%	0.17%		1159	exc. Pedestrians

Week1 totals by vehicle type											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	TOTALs	Totals exc. Pedestrians
Massingham Rd	532	110	26	22	2	2	11	3	30	738	708
St Jame's Green	200	27	4	4	0	0	4	2	37	278	241
Stocks Green	249	35	3	15	1	0	7	0	264	574	310
Newton Road	770	166	33	19	0	4	2	5	12	1011	999
Back Lane	261	27	1	6	0	1	3	0	78	377	299
Bailey Street	358	47	0	2	0	0	0	0	61	468	407
North Street	68	24	15	0	0	0	0	0	19	126	107
TOTALS	2438	436	82	68	3	7	27	10	501	3572	3071
PERCENTAGES	79%	14%	3%	2%	0.02%	0.20%	0.90%	0.30%		3071	Exc. pedestrians

Week 2 (half term) totals by vehicle type											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	TOTALs	Totals exc. Pedestrians
Massingham Rd	501	110	9	5	1	0	11	5	50	692	
St Jame's Green	280	66	3	2	0	1	0	2	24	378	
Stocks Green	158	23	1	3	0	0	9	0	188	382	
Newton Road	985	220	20	15	4	8	4	7	29	1292	
Back Lane	117	26	5	2	0	0	2	0	48	200	
Bailey Street	551	61	6	0	2	0	2	0	93	715	
North Street	71	24	0	0	0	2	2	1	37	137	
TOTALS	2663	530	44	27	7	11	30	15	469	3796	
PERCENTAGES	80%	16%	1.30%	0.80%	0.20%	0.30%	0.90%	0.50%		3327	exc. Pedestrians

Comparison of traffic movements by day type								
	Normal Weekday	% ages	1/2 Term Weekday	% ages	Saturday	% ages	Sunday	% ages
Cars	2342	80.2%	2663	80.9%	660	86.4%	1049	90.5%
Vans	416	14.3	496	18.6%	47	6.2%	49	4.2%
Lorries	84	2.9%	42	1.6%	0	0	1	0.1%
Buses	28	1%	28	1%	4	0.5%	2	0.2%
Campers	3	0.001%	7	0.3%	0	0	4	0.35%
Motor Cycles	9	0.3%	11	0.4%	4	0.5%	11	0.9%
Cycles	27	1%	30	1.1%	49	6.4%	41	3.5%
Agricultural	10	0.3%	15	0.6	0	0	2	0.2%
Pedestrians	472		467		330		505	
TOTALS	2919		3292		764		1159	
inc Peds	3391	13.9%	3759	12.4%	1094	30.2%	1884	29.1%

Volume of traffic per main entry road (whole survey)												
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	Totals	Total exc Pedestrians	% age for each road
Massingham Rd	1033	214	31	19	2	2	19	6	77	1403	1326	29%
Newton Road	1755	376	53	34	4	12	6	12	41	2293	2252	49%
Bailey Street	909	107	6	2	2	0	2	0	154	1182	1028	22%
Totals	3597	697	90	55	8	14	27	18	272	4878	4606	
PERCENTAGES	80%	15%	2.00%	1.20%	0.20%	0.30%	0.60%	0.40%	5.6%			exc. Pedestrians

Volume of traffic per main entry road (whole survey weekday)												
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	Totals	Total exc Pedestrians	% age for each road
Massingham Rd	1033	214	31	19	2	2	19	6	77	1403	1326	29%
Newton Road	1755	376	53	34	4	12	6	12	41	2293	2252	49%
Bailey Street	909	107	6	2	2	0	2	0	154	1182	1028	22%
Totals	3597	697	90	55	8	14	27	18	272	4878	4606	
PERCENTAGES	80%	15%	2.00%	1.20%	0.20%	0.30%	0.60%	0.40%	5.6%			exc. Pedestrians

Main entry roads, Saturday											
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	Totals	Total exc Pedestrians
Massingham Rd	313	25	0	1	0	2	29	0	75	445	370
Newton Road	0	0	0	0	0	0	0	0	0	0	0
Bailey Street	79	3	0	0	0	0	0	0	4	86	82
TOTAL	392	28	0	1	0	2	29	0	79	531	452
PERCENTAGES	86%	6%	0.00%	0.52%	0.00%	0.52%	6.00%	0.00%			

Main entry roads Sunday												
	Cars	Vans	Lorries	Buses	Campers	Motor Cycles	Cycles	Agricultural	Pedestrians	Totals	Total exc Pedestrians	%age for each road
Massingham Rd	0	0	0	0	0	0	0	0	0	0	0	xxx
Newton Road	421	20	0	1	0	5	4	2	5	458	453	
Bailey Street	218	19	1	0	1	3	3	0	49	294	245	
TOTAL	639	39	1	1	1	8	7	2	54	1664	1610	
PERCENTAGES	91%	4%	0.08%	0.17%	0.35%	0.95%	3.60%	0.17%		1159	exc. Pedestrians	

AM. 8.00 - 10.00 (Averaged over 2 sessions)

	Cars	% of total	Vans	% of total	Lorries	% of total	Buses	% of total	Pedestrians	% of total
Massingham Road	246	26%	59	29%	9	27%	8	29%	5	3%
Bailey Street	137	14%	22	11%	4	12%	4	14%	7	5%
Newton Road	243	25%	68	33%	11	33%	7	25%	8	5%
St James Green	165	17%	30	14%	7	21%	1	4%	28	19%
Stocks Green	54	6%	14	7%	2	6%	4	14%	44	30.0%
Back Lane	117	12%	15	7%	0	0	4	14%	57	38%
Totals	962		208		33		28		149	
								1231		

AM. 8.00 - 10.00 (Averaged over 2 sessions)

	Cars	% of total	Vans	% of total	Lorries	% of total	Buses	% of total	Pedestrians	% of total
Massingham Roasd	270	20.0%	44	23%	2	33%	2	10.0%	26	19%
Bailey Street	236	19%	15	8%	0	0	2	10.0%	2	1%
Newton Road	382	29%	65	34%	4	67%	7	35%	6	4%
St James Green	143	11%	49	25%	0	0	5	25%	21	16%
Stocks Green	88	7%	2	1%	0	0	4	20.0%	56	41%
Back Lane	203	15%	18	9%	/	0	/	0%	24	18%
Totals	1322		193		6		20		135	
								1541		