

## LEICESTERSHIRE COUNTY COUNCIL

### Lag Lane Vehicle Behaviour Study

N.D.I. (Network Data and Intelligence) were commissioned to undertake a study of vehicle behaviour on Lag Lane, Thorpe Arnold.

There were a number of aspects we were asked to study:

- 1) Through-traffic travelling between the A607 to the north and the B676 to the south
- 2) Vehicles accessing the three southern driveways (which more closely resemble unadopted roads)
- 3) Vehicles using the same three driveways for turning, with no other business

Cameras were located to view each point of interest and recorded the period 07:00-19:00 on Saturday 9<sup>th</sup> January and Tuesday 12<sup>th</sup> January 2021. The resulting footage was then analysed by professional enumerators. A full turning-count was carried out at the two junctions of Lag Lane, counting all road traffic passing Lag Lane, as well traffic accessing Lag Lane. This would be useful in helping determine how representative the surveys are in these unusual times, as a baseline can be drawn from existing data on these roads. Traffic was recorded accessing each of the driveways, and how long between accessing and leaving, so it could be ascertained whether they were conducting business or using the driveway for turning. An Automatic Traffic Count (ATC) was also undertaken on Lag Lane, not only to compare historic 'neutral' data we already hold, but also to validate the through-traffic count.

#### 1. Turning Counts and 'Rat Runs'

Saturday 9<sup>th</sup> January 2021

The survey revealed that 59 vehicles accessed Lag Lane from the A607 during the 12 hour period. Of these 59 vehicles, 22 exited onto the B676, five of which were pedal cycles. Of the 17 remaining motor vehicles, 14 exited within 4 minutes of entering in the north – indicating the sole purpose was to cut through.

For the same period 21 vehicles accessed Lag Lane northbound from the B676. Of these 21 vehicles, 17 exited on to the A607, 6 of which were pedal cycles. The remaining 11 motor vehicles all completed the journey in under 4 minutes indicating the sole purpose was to cut through.

Saturday 9th January			
	Car	LGV	Total
Southbound	10	4	14
Northbound	8	3	11

Tuesday 12<sup>th</sup> January 2021

The survey revealed that 72 vehicles accessed Lag Lane from the A607 during the 12 hour period. Of these 72, 31 exited on to the B676, 3 of which were pedal cycles. Of the remaining 28 motor vehicles 26 completed the journey in under 4 minutes, indicating the sole purpose was to cut through.

For the same period 48 vehicles accessed Lag Lane northbound from the B676. Of these 48 vehicles, 38 exited on to the A607, 4 of which were pedal cycles. Of the remaining 34 motor vehicles, 28 completed the journey in under 4 minutes, indicating the sole purpose was to cut through.

Tuesday 12th January			
	Car	LGV	Total
Southbound	21	5	26
Northbound	21	7	28

## 2. Vehicles Accessing Driveways & 3. Vehicles using driveways for turning only.

The work was assessed using Google's Street View. However, when on site, it was discovered that the middle driveway (Driveway 2) to be studied had, since the most recent Street View, had a gateway built across it. This gateway was closed for all of the Saturday and opened for a short time on the Tuesday. No vehicles were observed using this except for residents. Therefore, this has been removed from the survey.

### Driveway 1

#### Saturday 9<sup>th</sup> January

A total of 4 vehicles were seen accessing and leaving Driveway 1. The shortest time was 00:01:23 – the only LGV. This is considered long enough to have made a delivery. All other visits were longer.

IN	Out		
ACTUAL TIME	ACTUAL TIME	TRIP TIME	CLASS
09:03:36	09:04:59	00:01:23	LGV
NOT SEEN	10:06:18	N/A	Car
10:30:00	10:42:49	00:12:49	Car
NOT SEEN	11:48:58	N/A	Car
11:52:00	12:00:05	00:08:05	Car
12:13:56	NOT SEEN	N/A	Car
12:47:05	NOT SEEN	N/A	Car
NOT SEEN	15:09:11	N/A	Car
16:08:22	17:41:30	01:33:08	Car
18:39:51	NOT SEEN	N/A	Car

Tuesday 12<sup>th</sup> January

A similar picture painted here, with all vehicles visiting being regarded as having spent long enough to have been delivering with the shortest time being 00:02:37.

IN	Out		
ACTUAL TIME	ACTUAL TIME	TRIP TIME	CLASS
NOT SEEN	08:55:48	N/A	Car
09:25:10	NOT SEEN	N/A	Car
09:31:10	09:33:47	00:02:37	Car
09:31:30	09:34:18	00:02:48	LGV
NOT SEEN	12:36:09	N/A	Car
13:57:10	14:01:19	00:04:09	OGV 1
NOT SEEN	14:08:09	N/A	Car
14:09:35	NOT SEEN	N/A	Car
14:33:36	14:38:09	00:04:33	LGV
14:41:48	NOT SEEN	N/A	Car

Driveway 3

Saturday 9<sup>th</sup> January

Only one vehicle was observed arriving and leaving Driveway 3 on the Saturday. With a time of 00:01:18, this is considered to be a delivery.

IN	Out		
ACTUAL TIME	ACTUAL TIME	TRIP TIME	CLASS
NOT SEEN	07:38:29	N/A	Car
08:59:06	09:00:24	00:01:18	LGV

Tuesday 12<sup>th</sup> January

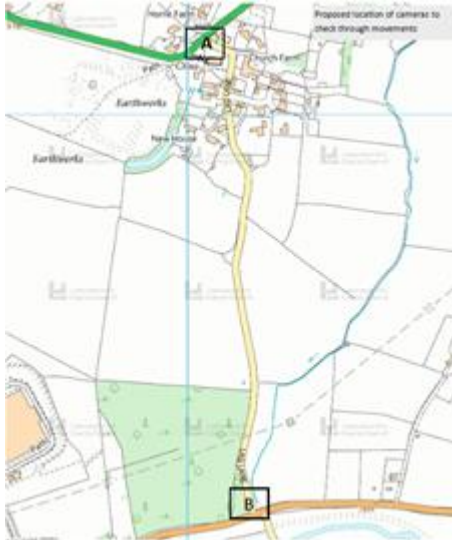
Two vehicles were observed accessing and leaving Driveway 3 on the Tuesday, and one of them was the only confirmed use of the driveway for turning during the whole survey.

IN	Out		
ACTUAL TIME	ACTUAL TIME	TRIP TIME	CLASS
09:25:26	09:27:14	00:01:48	LGV
16:40:31	16:40:47	00:00:16	LGV ( UTURN)

## Location of Traffic and Turning surveys on Lag Lane, Thorpe Arnold

Vehicle survey over Lag Lane between A607 Waltham road junction and Saxby road. and a turning survey to identify existing turning manoeuvres currently taking place within the village on the driveways indicated within the village of Thorpe Arnold.

All through movements between Saxby Road and A607 Waltham Road junctions (to understand current through movements on Lag Lane) A- B on plan below



Types of vehicles and number of traffic movements including LGV movements using drives for turning only as opposed to those delivering to the houses