

Independent Analysis:
Thames Valley Police Speed Camera Data.

Buckinghamshire

April 2012



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1.0 Purpose:

The motivation for this independent study arises out the Government's direction that Road Safety Partnerships nationally should, in the interest of greater public transparency and accountability, publish meaningful and accessible performance information relating to individual speed cameras.

2.0 Methodology:

This independent study has focussed on road collision data rather than speed reduction due to its economic impact on society. The study has used road collision data and offence rates sourced directly from Thames Valley Police.

Collision data covers the recording period 1992 to 2011 and relates to all collisions at fixed and mobile speed detection devices within Buckinghamshire (excluding Milton Keynes)

The measured effectiveness of each speed camera in respect of road collision data has been calculated by aggregating the change in recorded road collision data on a year-on-year basis to give a net figure over the life-time of the speed camera. This method provides for a total of 878 year-on-year observations.

The measured effectiveness of each speed camera has then been rated using the following criteria:

Good: Where the net change in recorded collisions is $\leq (-2)$.

Weak / No Change: Where the net change in recorded collisions is ≤ 0 and $> (-2)$.

Poor: Where the net change in recorded collisions is > 0 .

This simple and honest approach has the advantage of being easily understood. It also reflects both the direction and magnitude of published road collision data over time.

Consideration of alternative methodologies:

A comparison of averages in road collision data taken before and after the installation of a speed camera was considered unreliable due to the paucity of recorded road collision data prior to their installation. This paucity of data does not allow for any natural regression to a mean value, thereby leading to an unsafe or misleading observation.

3.0 Key Findings:

3.1 Rated camera performances (net year-on-year change in road collisions):

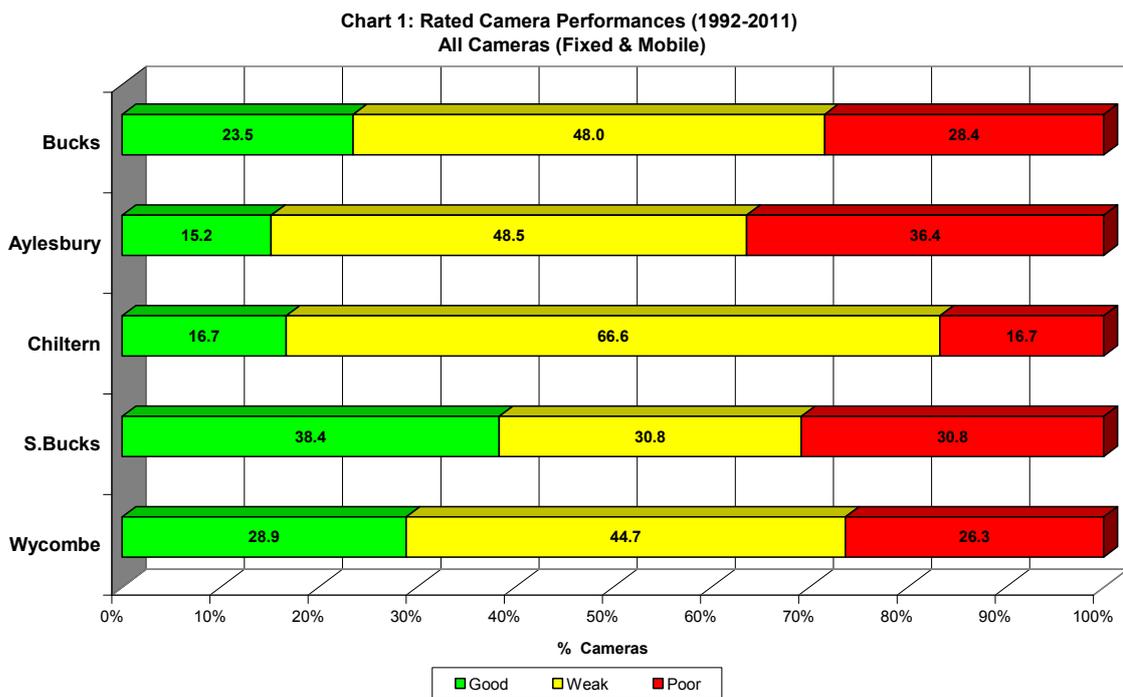
Analysis shows that **76%** of all speed detection devices in Buckinghamshire have a performance rating of either **weak or poor**. That is to say the net year-on-year change in road collisions has either remained practically the same or increased at locations where speed detection devices operate. The rated performances at District level are as follows:

Vale of Aylesbury = 85% weak / poor

Chiltern = 83% weak / poor

South Bucks = 62% weak / poor

Wycombe = 71% weak / poor



3.2 Performance comparison, fixed vs. mobile devices:

An indexed rated performance comparison shows **mobile devices to be significantly worse** at reducing road collisions over their period of operation. (Table A).

Table A: Indexed Rated Performance Comparison - Fixed vs Mobile Cameras

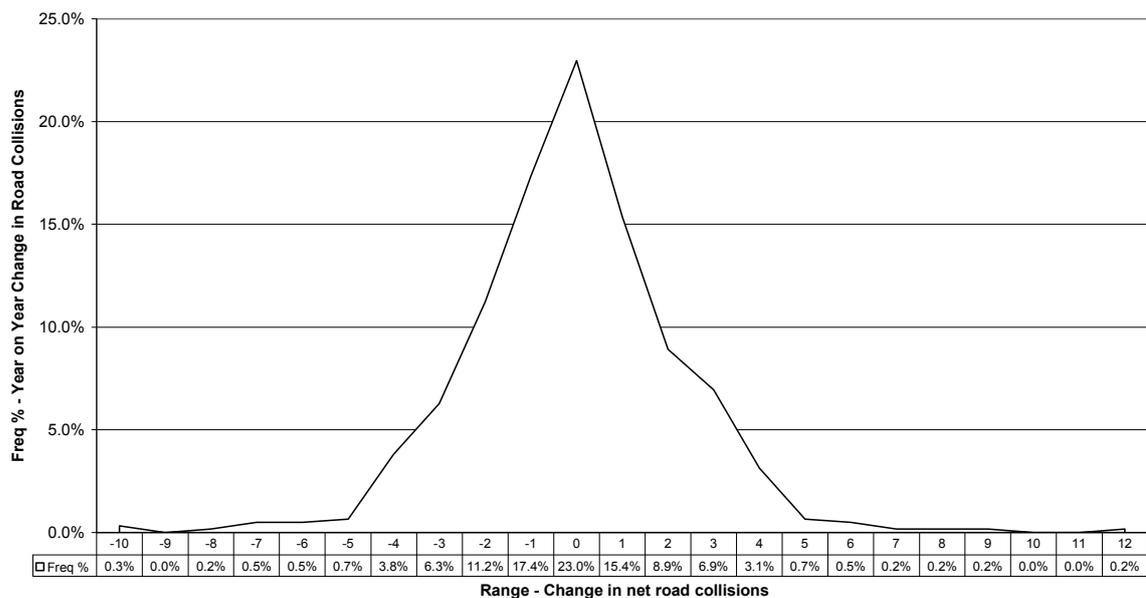
	Good		Weak		Poor	
	Fixed	Mobile	Fixed	Mobile	Fixed	Mobile
Aylesbury	18.0%	13.6%	46.0%	50.0%	36.0%	36.4%
Chiltern	37.5%	0.0%	62.5%	70.0%	0.0%	30.0%
S.Bucks	42.8%	33.3%	28.6%	33.3%	28.6%	33.3%
Wycombe	55.5%	5.0%	27.8%	60.0%	16.7%	35.0%
Index	153.8	51.9	164.9	213.3	81.3	134.7
		⬇		⬇		⬇
		Worse		Worse		Worse
Index % variance		66.3%		29.4%		65.7%

3.3 Analysis of all year-on-year changes in road collision data:

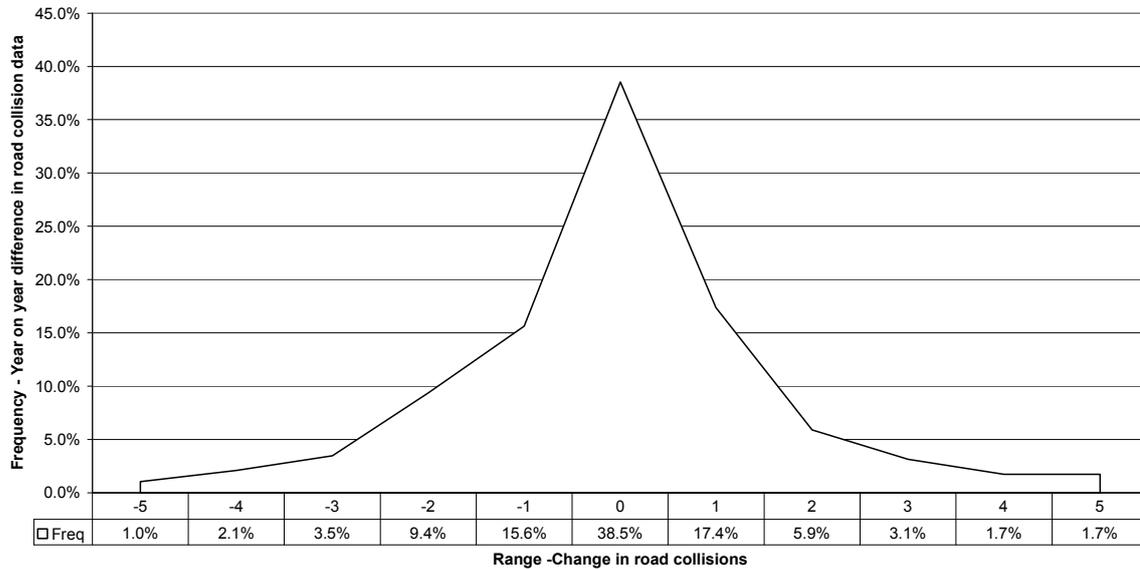
- Distribution analysis shows that fixed or mobile devices saw **no observable improvement or step-change in performance**. The calculated mean (average number), median (mid-ranked number) and mode (most common number) are found to be 0 in each case showing a normal distribution of collision data in which the mean relative to the median and mode has not been skewed in either a positive or negative direction. A step-changed improvement in road collision data would have been revealed by a negatively skewed mean value.

- Distribution analysis shows that **on average** both fixed and mobile speed cameras saw **no year-on-year change** in the number of road collisions. (Charts1 & 2).

Chart 1: Freq Distribution - Year-on-Year Change in Road Collision Data
(Fixed Speed Cameras 1992 -2010)



**Chart 2: Freq Distribution - Year-on-Year Change in Road Collision Data
Mobile Speed Detection Devices (2002 -2011)**



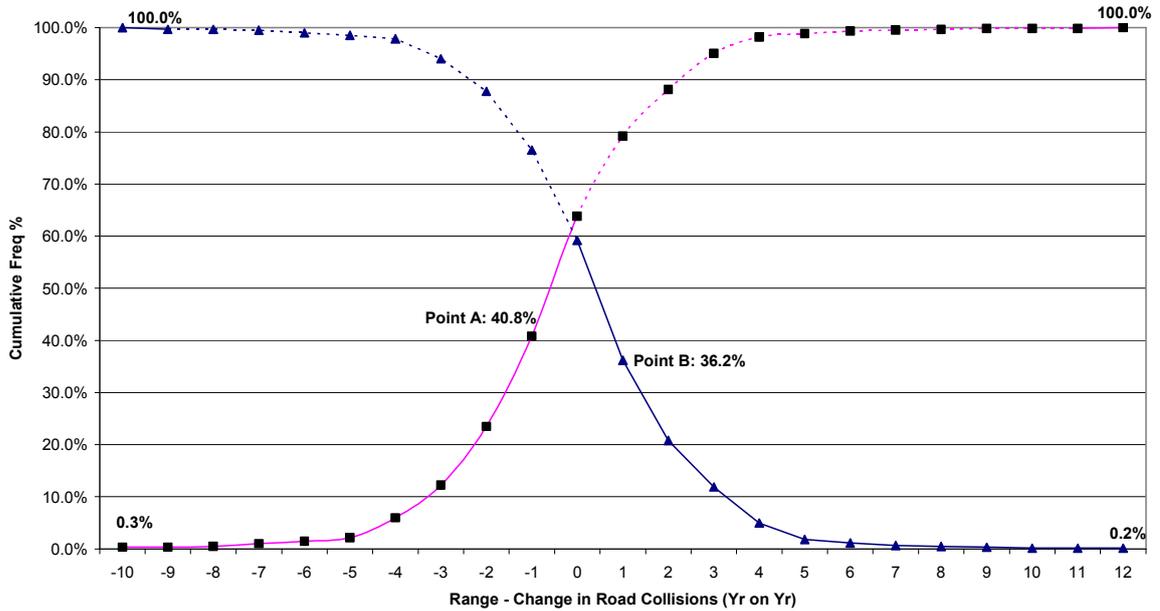
➤ Cumulative frequency analysis reveals that where a year-on-year change in road collision has occurred it is almost as likely to show an increase as it is a decrease.

For fixed cameras a difference of only 4.6% exists between the cumulative totals recorded for decreases in road collision data and that recorded for increases (Chart 3 Value A less Value B).

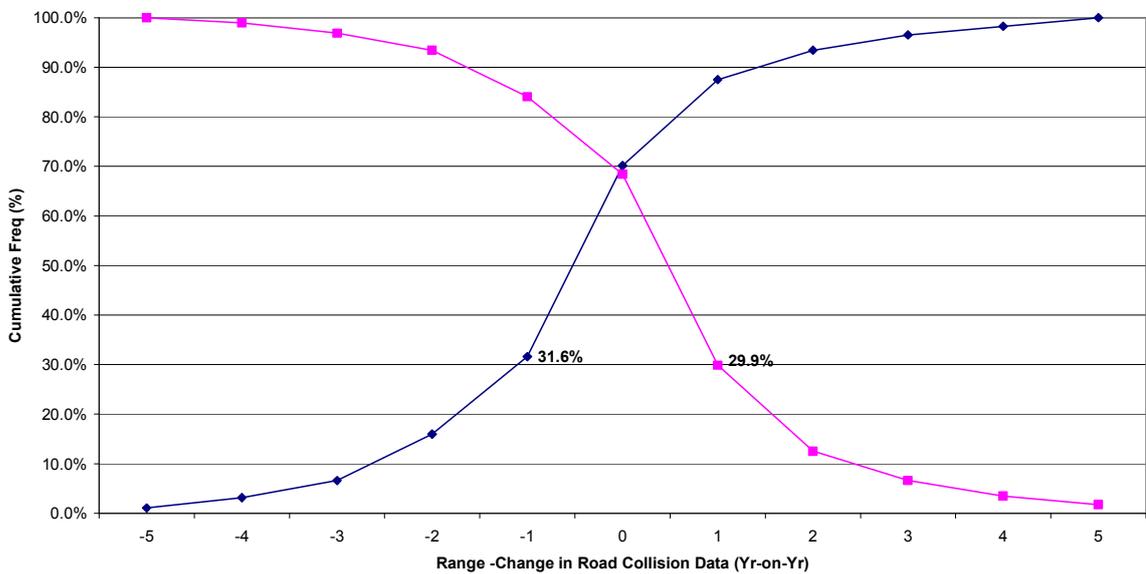
For mobile devices a difference of only 1.7% exists between the cumulative totals recorded for decreases in road collision data and that recorded for increases. (Chart 4)

The consistent random nature of road collision data over time applies to both fixed and mobile camera data, demonstrating an extremely weak correlation between the location of speed cameras and a change in road collision numbers.

**Chart 3: Cumulative Freq Distribution - Year-on-Year Change in Road Collision Data
Fixed Speed Cameras (1992-2010)**



**Chart 4: Cumulative Freq Distribution - Year-on-Year Change in Road Collision Data
Mobile Speed Detection Devices (2002-2011)**



3.4 Road safety vs. Income generation:

It is understood that unlike fixed speed cameras, income generated from mobile devices is wholly retained by Thames Valley Police.

3.4.1 Income generation through fines as a percentage of Council Tax Precept:

During 2010 the income generated in Bucks from mobile devices alone equates to a notional figure of **£980,280**. This assumes a 100% conversion of all Fixed Penalty Notices issued. This figure if raised through the Council Tax Precept would equate to **an additional Council Tax levy of £4.75 per household** in Buckinghamshire. Or put another way TVP would have had to raise **the Council Tax Precept in Buckinghamshire by 3.2%** to compensate for the equivalent shortfall in income. Under current legislation a proposed Council Tax increase of more than 3.5% would necessitate a local public referendum.

Council Tax Base 2010*	
AVDC	71,357
Chiltern	38,299
South Bucks	27,628
Wycombe	68,977
Total Council Tax Base (Bucks)	206,261
Total recorded offences Bucks 2010 (Mobile devices)	16,338
Income** (Based on £60 fine)	£980,280
De Facto Tax per household	£4.75
TVP Council Tax Precept (Band D) 2010	£154.30
Council Tax increase to compensate for income shortfall	3.2%

* Source: DCLG - Local Authority Council Tax Base 2010

**Assumes 100% conversion of FPN's issued

3.4.2 Accident Rates:

A like for like comparison reveals that in 2010 the average collision rate for mobile locations was seen to be 49% lower than that seen for fixed locations.

Given the significant lower performance of mobile devices compared with fixed cameras, it is argued that the lower collision rate for mobile devices is a consequence of such devices being **located at areas of lower community risk**. This view is reinforced by cumulative frequency analysis, where during the period of operation, the range of year-on-year change in road collision data at mobile locations (-5 to +5) is half the range found at fixed camera locations (-10 to +12).

	Year 2010	
	Fixed	Mobile
Average collision rate*	2.07	1.44
Average offence rate*	240	367
Offence rate per collision	116	255

* Per camera, per year

3.4.3 Comparison of offence rates per road collision:

A like for like comparison of offences rates per road collision during 2010 reveals that on average fixed camera locations recorded 116 offences per road collision, whereas mobile camera locations recorded 255 offences per road collision. **Mobile locations** on average had an **offence rate per road collision 120% higher** that that seen for fixed locations.

3.4.4 Rationale for situating mobile devices:

TVP’s rationale for situating mobile device is unclear given that 19% (approx 1/5th) of all mobile locations that show recorded collision data, have zero collisions recorded during their period of operation.

Mobile devices locations with no collisions having been recorded during period of operation

	Offence Ranking
TV2141:Oving Road, Whitchurch	21/103
TV2217:Weedon Hill, Hyde Heath	23/103
TV2215:Windsor Lane, Lt.Kingshill	55/103
TV2336:Brimmers Hill, Widmer End	58/103
TV2135:Leighton Road, Wingrave	62/103
TV2144:Main Street, Mursley	65/103
TV2133:Main Road South, Dagnall	66/103
TV2341:Wycombe Lane, Wooburn Green	82/103
TV2218:White Lion Road, Amersham	84/103
TV2216:Amersham Road, Lt.Chalfont	85/103



Scorecard - Road Safety vs. Income Generation

Factor	Mobile Cameras			
	Road Safety		Income Generation	
	Strong	Weak	Strong	Weak
Income as percentage of TVP Budget			√	
Rated Camera Performances		√		
Accident Rate		√		
Recorded offence rate per collision			√	
Rationale for locating cameras		√	√	

- Fines Income generated in 2010 equates to an additional **Council Tax levy of £4.75 per household.**
- 1 in 5 mobile devices** are situated at locations that have no road collisions recorded
- Mobile devices** have an **offence rate per road collision 120% higher** than that of fixed cameras

Table C: Ranked Camera Performances - Net Collisions (Vale of Aylesbury)

Rank	Type	Camera Location	Active (Yrs)	Rated P'rfomce	% All cameras
1	Fixed	TV2104: A418 Bierton Rd, Aylesbury	15	-8	15.2%
2	Mobile	TV2107:Wendover Road, Aylesbury	10	-6	
3	Fixed	TV2117: London Rd, Buckingham	11	-3	
4	Mobile	TV2120:A421Tingwick By-Pass	10	-2	
4	Mobile	TV2139:A4146, Stoke Hammond	3	-2	
6	Mobile	TV2112: Oakfield Road, Aylesbury	10	-1	48.5%
6	Mobile	TV2123:Walton Street, Aylesbury	10	-1	
6	Mobile	TV2125:Gatehouse Road, Aylesbury	10	-1	
6	Fixed	TV2116: Churchill Ave, Aylesbury	12	-1	
10	Mobile	TV2132: B4011 Oakley	7	0	
10	Mobile	TV2133:Main Road South, Dagnall	6	0	
10	Mobile	TV2134: A41, Aston Clinton	5	0	
10	Mobile	TV2135:Leighton Road, Wingrave	5	0	
10	Mobile	TV2141:Oving Road, Whitchurch	3	0	
10	Mobile	TV2142:Oxford Road, Stone	3	0	
10	Mobile	TV2143:London Road, Aston Clinton	3	0	
10	Mobile	TV2144:Main Street, Mursley	2	0	
10	Fixed	TV2101: A4146 Fenny Rd, Stoke Hammond	18	0	
10	Fixed	TV2102: A4146 Leighton Rd, Ellesborough	16	0	
10	Fixed	TV2114: Weedon Rd, Aylesbury	14	0	
10	Fixed	TV2115: A418 Gibraltar, Aylesbury	13	0	
22	Mobile	TV2121:A413 Wendovr By-Pass	10	1	36.4%
22	Mobile	TV2124:Buckingham Road, Aylesbury	10	1	
22	Mobile	TV2136:High Street, Whitchurch	4	1	
22	Mobile	TV2137:B4009, Halton	4	1	
22	Mobile	TV2140:A4146, Stoke Hammond	3	1	
22	Mobile	TV2145:Whaddon Road, Newton Longville	2	1	
22	Mobile	TV2146:A4129, Kingsey	2	1	
22	Fixed	TV2106: A41 London Rd, Aston Clinton	15	1	
22	Fixed	TV2107: A413 Wendover Rd, Aylesbury	15	1	
22	Fixed	TV2109: A41 Bicester Road, Kingswood	15	1	
32	Fixed	TV2110: Elmhurst Rd Aylesbury	15	2	
32	Mobile	TV2131:Tring Road, Aylesbury	8	2	
	Mobile	TV2147:Buckingham Road, Winslow	<1yr	n/a	
	Mobile	TV2148:Station Road, Quainton	<1yr	n/a	

Performance key

	Good
	Weak / No Net Change
	Poor

Table C: Ranked Offence Rates (Vale of Aylesbury)

Rank	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'rfmce
1	Mobile	TV2131:Tring Road, Aylesbury	8	1056	Poor
2	Fixed	TV2110: Elmhurst Rd Aylesbury	15	1023	Poor
3	Fixed	TV2117: London Rd, Buckingham	11	872	Good
4	Mobile	TV2143:London Road, Aston Clinton	3	687	Weak
5	Mobile	TV2137:B4009, Halton	4	680	Poor
6	Mobile	TV2125:Gatehouse Road, Aylesbury	10	612	Weak
7	Mobile	TV2145:Whaddon Road, Newton Longville	2	471	Poor
8	Mobile	TV2142:Oxford Road, Stone	3	427	Weak
9	Fixed	TV2104: A418 Bierton Rd, Aylesbury	15	424	Good
10	Mobile	TV2141:Oving Road, Whitchurch	3	377	Weak
11	Mobile	TV2121:A413 Wendovr By-Pass	10	303	Poor
12	Mobile	TV2139:A4146, Stoke Hammond	3	299	Good
13	Mobile	TV2120:A421Tingwick By-Pass	10	284	Good
14	Mobile	TV2140:A4146, Stoke Hammond	3	243	Poor
15	Mobile	TV2123:Walton Street, Aylesbury	10	221	Weak
16	Fixed	TV2114: Weedon Rd, Aylesbury	14	212	Weak
17	Mobile	TV2124:Buckingham Road, Aylesbury	10	197	Poor
18	Mobile	TV2132: B4011 Oakley	7	195	Weak
19	Mobile	TV2146:A4129, Kingsey	2	171	Poor
20	Mobile	TV2112: Oakfield Road, Aylesbury	10	154	Weak
21	Mobile	TV2135:Leighton Road, Wingrave	5	130	Weak
22	Fixed	TV2116: Churchill Ave, Aylesbury	12	129	Weak
23	Mobile	TV2136:High Street, Whitchurch	4	122	Poor
24	Mobile	TV2144:Main Street, Mursley	2	121	Weak
25	Mobile	TV2133:Main Road South, Dagnall	6	120	Weak
26	Fixed	TV2102: A4146 Leighton Rd, Ellesborough	16	82	Weak
27	Fixed	TV2107: A413 Wendover Rd, Aylesbury	15	77	Poor
28	Mobile	TV2134: A41, Aston Clinton	5	76	Weak
29	Fixed	TV2106: A41 London Rd, Aston Clinton	15	53	Poor
30	Mobile	TV2107:Wendover Road, Aylesbury	10	33	Good
31	Fixed	TV2115: A418 Gibraltar, Aylesbury	13	29	Weak
32	Fixed	TV2109: A41 Bicester Road, Kingswood	15	10	Poor
33	Fixed	TV2101: A4146 Fenny Rd, Stoke Hammond	18	0	Weak
	Mobile	TV2148:Station Road, Quainton	<1yr		
	Mobile	TV2147:Buckingham Road, Winslow	<1yr		

Table D: Ranked Camera Performances - Net Collisions (Chiltern)

Rank	Type	Camera Location	Active (Yrs)	Rated P'frmce	% All cameras
1	Fixed	TV2201: A416 Ashley Green Road, Ashley Green	16	-3	16.7%
1	Fixed	TV2208: A413 Gravel Hill, Chalfont St Peter	9	-3	
3	Fixed	TV2203: A40 London Road, Beaconsfield	13	-2	
4	Fixed	TV2202: B474 Elm Rd, Penn	14	-1	66.6%
4	Fixed	TV2204: Waterside, Chesham	13	-1	
4	Fixed	TV2205: A404 Amersham Rd. Little Chalfont	11	-1	
7	Mobile	TV2212: Denham Lane, Chalfont St Peter	6	0	
7	Mobile	TV2213:Wycombe Road, Prestwood	6	0	
7	Mobile	TV2215:Windsor Lane, Lt.Kingshill	4	0	
7	Mobile	TV2216:Amersham Road, Lt.Chalfont	3	0	
7	Mobile	TV2217:Weedon Hill, Hyde Heath	3	0	
7	Mobile	TV2218:White Lion Road, Amersham	2	0	
7	Fixed	TV2206: A416 Station Rd, Amersham	11	0	
7	Fixed	TV2207: A416 Nashleigh Hill, Amersham	11	0	16.7%
7	Mobile	TV2209: Rignall Road, Gt.Missenden	8	0	
16	Mobile	TV2210:Botley Road, Chesham	7	1	
16	Mobile	TV2211:High Street, Prestwood	7	1	
16	Mobile	TV2214:Stanley Road, Amersham	6	1	

Performance key

	Good
	Weak / No Net Change
	Poor

Table D:Ranked Offence Rates (Chiltern)

Rank	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'frmce
1	Mobile	TV2214:Stanley Road, Amersham	6	973	Poor
2	Fixed	TV2206: A416 Station Rd, Amersham	11	369	Weak
3	Mobile	TV2217:Weedon Hill, Hyde Heath	3	367	Weak
4	Fixed	TV2208: A413 Gravel Hill, Chalfont St Peter	9	280	Good
5	Mobile	TV2209: Rignall Road, Gt.Missenden	8	256	Weak
6	Fixed	TV2201: A416 Ashley Green Road, Ashley Green	16	232	Good
7	Mobile	TV2210:Botley Road, Chesham	7	186	Poor
8	Fixed	TV2202: B474 Elm Rd, Penn	14	172	Weak
9	Mobile	TV2215:Windsor Lane, Lt.Kingshill	4	138	Weak
10	Mobile	TV2212: Denham Lane, Chalfont St Peter	6	133	Weak
11	Fixed	TV2207: A416 Nashleigh Hill, Amersham	11	109	Weak
12	Mobile	TV2213:Wycombe Road, Prestwood	6	87	Weak
13	Mobile	TV2211:High Street, Prestwood	7	76	Poor
14	Mobile	TV2218:White Lion Road, Amersham	2	45	Weak
15	Mobile	TV2216:Amersham Road, Lt.Chalfont	3	43	Weak
16	Fixed	TV2203: A40 London Road, Beaconsfield	13	40	Good
17	Fixed	TV2204: Waterside, Chesham	13	9	Weak
18	Fixed	TV2205: A404 Amersham Rd. Little Chalfont	11	0	Weak

Table E: Ranked Camera Performances - Net Collisions (S.Bucks)

Rank	Type	Camera Location	Active (Yrs)	Rated P'rfmce	% All cameras
1	Mobile	TV2409:Uxbridge Road, Wexham, Iver	3	-6	38.5%
2	Mobile	TV2406:North Orbital Road, Denham	10	-5	
3	Fixed	TV2403: A4007 Slough Rd, Iver Heath	15	-3	
4	Fixed	TV2402: A355 Green Man Hill, B'field Rd, F'hm Cmmn	16	-2	
4	Fixed	TV2406: A412 North Orbital Road, Denham	14	-2	
6	Fixed	TV2407: Thorney Lane, Iver	14	-1	30.8%
7	Mobile	TV2413:Moorfield Road, Denham	4	0	
7	Mobile	TV2414:Denham Green Lane, Denham Green	2	0	
7	Fixed	TV2401: A355 Beaconsfield Rd, Farnham Common	17	0	30.8%
10	Fixed	TV2404: B470 Iver Rd, Iver	15	1	
10	Fixed	TV2405: B416 Gerrards Cross Rd, Stoke Poges	15	1	
12	Mobile	TV2416:Richings Way, Iver	2	2	
13	Mobile	TV2415:Oxford Road, Denham	2	5	
	Mobile	TV2418:Oxford Road, Denham	<1yr		

Performance key

	Good
	Weak / No Net Change
	Poor

Table E: Ranked Offence Rates (S.Bucks)

Rank	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'rfmce
1	Mobile	TV2406:North Orbital Road, Denham	10	2211	Good
2	Mobile	TV2413:Moorfield Road, Denham	4	545	Weak
3	Fixed	TV2401: A355 Beaconsfield Rd, Farnham Common	17	525	Weak
4	Fixed	TV2406: A412 North Orbital Road, Denham	14	360	Good
5	Mobile	TV2409:Uxbridge Road, Wexham, Iver	3	348	Good
6	Fixed	TV2407: Thorney Lane, Iver	14	249	Weak
7	Fixed	TV2403: A4007 Slough Rd, Iver Heath	15	245	Good
8	Mobile	TV2416:Richings Way, Iver	2	193	Poor
9	Mobile	TV2415:Oxford Road, Denham	2	161	Poor
10	Fixed	TV2405: B416 Gerrards Cross Rd, Stoke Poges	15	50	Poor
11	Mobile	TV2414:Denham Green Lane, Denham Green	2	25	Weak
12	Fixed	TV2404: B470 Iver Rd, Iver	15	19	Poor
13	Fixed	TV2402: A355 Green Man Hill, B'field Rd, F'hm Cmmn	16	4	Good
	Mobile	TV2418:Oxford Road, Denham	<1yr		

Table F: Ranked Camera Performances - Net Collisions (Wycombe)

Rank	Type	Camera Location	Active (Yrs)	Rated P'frmce	% All cameras
1	Fixed	TV2304: A4010 New Rd, High Wycombe	16	-6	28.9%
1	Fixed	TV2310: The Pastures, High Wycombe	14	-6	
3	Fixed	TV2301: A404 Amersham Rd, Hazlemere	17	-4	
4	Fixed	TV2303: Desborough Ave, High Wycombe	16	-3	
4	Fixed	TV2307: Hamilton Rd, High Wycombe	15	-3	
4	Fixed	TV2312: A4010 Chapel Ln, High Wycombe	14	-3	
4	Fixed	TV2315: A4094 Wycombe Lane, Wooburn Green	12	-3	
8	Mobile	TV2321:Aylesbury Road, Monks Risborough	10	-2	
8	Fixed	TV2302: A4155 Little Marlow Rd, Marlow	17	-2	
8	Fixed	TV2309: B482 Seymour Court Rd, Marlow	14	-2	
8	Fixed	TV2321: A410 Aylesbury Rd, Monks Risborough	9	-2	
12	Mobile	TV2316:West Wycombe Road, High Wycombe	10	-1	
12	Mobile	TV2318:Marlow Hill, High Wycombe	10	-1	
12	Mobile	TV2319:A404 Marlow By-Pass	10	-1	
12	Mobile	TV2339:B4009 Gt.Kimble	3	-1	
12	Fixed	TV2308: Hedsor Rd, Bourne End	15	-1	
12	Fixed	TV2313: B482 High Street, Lane End	13	-1	
12	Fixed	TV2322: Main Rd, Naphill	9	-1	
19	Mobile	TV2305:Sawpit Hill, Hazlemere	10	0	
19	Mobile	TV2326:New Road, Walters Ash	6	0	
19	Mobile	TV2329:Holtspur Lane, High Wycombe	5	0	
19	Mobile	TV2334:Hazlemere Road, Penn	8	0	
19	Mobile	TV2335:Blind Lane, Bourne End	8	0	
19	Mobile	TV2336:Brimmers Hill, Widmer End	4	0	
19	Mobile	TV2341:Wycombe Lane, Wooburn Green	2	0	
19	Mobile	TV2342:Chinnor Road, Bledlow Ridge	2	0	
19	Fixed	TV2314: A4094 Cores End Rd, Bourne End	13	0	
19	Fixed	TV2323: A40 London Road, High Wycombe	9	0	
29	Mobile	TV2304:New Road, High Wycombe	10	1	26.3%
29	Mobile	TV2317:Marlow Hill, High Wycombe	10	1	
29	Mobile	TV2325:Totteridge Lane, High Wycombe	10	1	
29	Fixed	TV2305: Holmer Green Rd, Sawpit Hill, Hazlemere	13	1	
29	Fixed	TV2306: Wycombe Rd, Marlow	15	1	
34	Mobile	TV2340:Valley Road, Hughenden Valley	3	2	
34	Fixed	TV2311: A40 West Wycombe Rd, High Wycombe	11	2	
36	Mobile	TV2324:Holmer Farm Way, High Wycombe	8	3	
36	Mobile	TV2330:Penn Road, Hazlemere	5	3	
38	Mobile	TV2333:Cressex Road, High Wycombe	8	4	
	Mobile	TV2343:Hithercroft Road, High Wycombe	<1yr	n/a	
	Mobile	TV2344:Treadaway Hill, Flackwell Heath	<1yr	n/a	
	Mobile	TV2345:Missenden Road, Gt.Kingshill	<1yr	n/a	
	Mobile	TV2310:Ellesborough Road, Ellesborough	<1yr	n/a	
	Mobile	TV2311:Wycombe Road, Studley Green	<1yr	n/a	

Performance key

- Good
- Weak / No Net Change
- Poor

Table F: Ranked Offence Rates (Wycombe)

Rank	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'rfmce
1	Mobile	TV2329:Holtspur Lane, High Wycombe	5	1123	Weak
2	Fixed	TV2311: A40 West Wycombe Rd, High Wycombe	11	706	Poor
3	Fixed	TV2302: A4155 Little Marlow Rd, Marlow	17	643	Good
4	Fixed	TV2323: A40 London Road, High Wycombe	9	561	Weak
5	Fixed	TV2305: Holmer Green Rd, Sawpit Hill, Hazlemere	13	511	Poor
6	Mobile	TV2321:Aylesbury Road, Monks Risborough	10	499	Good
6	Fixed	TV2321: A410 Aylesbury Rd, Monks Risborough	9	499	Good
8	Mobile	TV2324:Holmer Farm Way, High Wycombe	8	444	Poor
9	Mobile	TV2304:New Road, High Wycombe	10	378	Poor
10	Mobile	TV2333:Cressex Road, High Wycombe	8	322	Poor
11	Fixed	TV2313: B482 High Street, Lane End	13	303	Weak
12	Fixed	TV2312: A4010 Chapel Ln, High Wycombe	14	293	Good
13	Mobile	TV2330:Penn Road, Hazlemere	5	281	Poor
14	Fixed	TV2315: A4094 Wycombe Lane, Wooburn Green	12	191	Good
15	Fixed	TV2303: Desborough Ave, High Wycombe	16	178	Good
16	Fixed	TV2309: B482 Seymour Court Rd, Marlow	14	176	Good
17	Fixed	TV2304: A4010 New Rd, High Wycombe	16	173	Good
18	Mobile	TV2339:B4009 Gt.Kimble	3	147	Weak
19	Fixed	TV2314: A4094 Cores End Rd, Bourne End	13	137	Weak
20	Mobile	TV2336:Brimmers Hill, Widmer End	4	136	Weak
21	Fixed	TV2306: Wycombe Rd, Marlow	15	135	Poor
22	Fixed	TV2308: Hedsor Rd, Bourne End	15	133	Weak
23	Fixed	TV2301: A404 Amersham Rd, Hazlemere	17	116	Good
24	Fixed	TV2322: Main Rd, Naphill	9	108	Weak
25	Mobile	TV2340:Valley Road, Hughenden Valley	3	98	Poor
26	Mobile	TV2326:New Road, Walters Ash	6	75	Weak
27	Mobile	TV2335:Blind Lane, Bourne End	8	70	Weak
27	Fixed	TV2310: The Pastures, High Wycombe	14	70	Good
29	Mobile	TV2317:Marlow Hill, High Wycombe	10	64	Poor
30	Mobile	TV2305:Sawpit Hill, Hazlemere	10	55	Weak
31	Mobile	TV2341:Wycombe Lane, Wooburn Green	2	50	Weak
32	Mobile	TV2342:Chinnor Road, Bledlow Ridge	2	43	Weak
33	Fixed	TV2307: Hamilton Rd, High Wycombe	15	38	Good
34	Mobile	TV2319:A404 Marlow By-Pass	10	33	Weak
35	Mobile	TV2325:Totteridge Lane, High Wycombe	10	30	Poor
36	Mobile	TV2334:Hazlemere Road, Penn	8	21	Weak
37	Mobile	TV2316:West Wycombe Road, High Wycombe	10	18	Weak
38	Mobile	TV2318:Marlow Hill, High Wycombe	10	17	Weak
	Mobile	TV2345:Missenden Road, Gt.Kingshill	<1yr		
	Mobile	TV2344:Treadaway Hill, Flackwell Heath	<1yr		
	Mobile	TV2343:Hithercroft Road, High Wycombe	<1yr		
	Mobile	TV2311:Wycombe Road, Studley Green	<1yr		
	Mobile	TV2310:Ellesborough Road, Ellesborough	<1yr		

Table G: Ranked Camera Performances - Net Collisions (Bucks)

Rank	Type	Camera Location	Active (Yrs)	Rated P'frmce	% All cameras
1	Fixed	TV2104: A418 Berton Rd, Aylesbury	15	-8	23.5%
2	Mobile	TV2107:Wendover Road, Aylesbury	10	-6	
2	Mobile	TV2409:Uxbridge Road, Wexham, Iver	3	-6	
2	Fixed	TV2304: A4010 New Rd, High Wycombe	16	-6	
2	Fixed	TV2310: The Pastures, High Wycombe	14	-6	
6	Mobile	TV2406:North Orbital Road, Denham	10	-5	
7	Fixed	TV2301: A404 Amersham Rd, Hazlemere	17	-4	
8	Fixed	TV2117: London Rd, Buckingham	11	-3	
8	Fixed	TV2201: A416 Ashley Green Road, Ashley Green	16	-3	
8	Fixed	TV2208: A413 Gravel Hill, Chalfont St Peter	9	-3	
8	Fixed	TV2303: Desborough Ave, High Wycombe	16	-3	
8	Fixed	TV2307: Hamilton Rd, High Wycombe	15	-3	
8	Fixed	TV2312: A4010 Chapel Ln, High Wycombe	14	-3	
8	Fixed	TV2315: A4094 Wycombe Lane, Wooburn Green	12	-3	
8	Fixed	TV2403: A4007 Slough Rd, Iver Heath	15	-3	
16	Mobile	TV2120:A421Tingwick By-Pass	10	-2	
16	Mobile	TV2139:A4146, Stoke Hammond	3	-2	
16	Mobile	TV2321:Aylesbury Road, Monks Risborough	10	-2	
16	Fixed	TV2203: A40 London Road, Beaconsfield	13	-2	
16	Fixed	TV2302: A4155 Little Marlow Rd, Marlow	17	-2	
16	Fixed	TV2309: B482 Seymour Court Rd, Marlow	14	-2	
16	Fixed	TV2321: A410 Aylesbury Rd, Monks Risborough	9	-2	
16	Fixed	TV2402: A355 Green Man Hill, B'field Rd, F'hm Cmmn	16	-2	
16	Fixed	TV2406: A412 North Orbital Road, Denham	14	-2	
25	Mobile	TV2112: Oakfield Road, Aylesbury	10	-1	48.0%
25	Mobile	TV2123:Walton Street, Aylesbury	10	-1	
25	Mobile	TV2125:Gatehouse Road, Aylesbury	10	-1	
25	Mobile	TV2316:West Wycombe Road, High Wycombe	10	-1	
25	Mobile	TV2318:Marlow Hill, High Wycombe	10	-1	
25	Mobile	TV2319:A404 Marlow By-Pass	10	-1	
25	Mobile	TV2339:B4009 Gt.Kimble	3	-1	
25	Fixed	TV2116: Churchill Ave, Aylesbury	12	-1	
25	Fixed	TV2202: B474 Elm Rd, Penn	14	-1	
25	Fixed	TV2204: Waterside, Chesham	13	-1	
25	Fixed	TV2205: A404 Amersham Rd. Little Chalfont	11	-1	
25	Fixed	TV2308: Hedsor Rd, Bourne End	15	-1	
25	Fixed	TV2313: B482 High Street, Lane End	13	-1	
25	Fixed	TV2322: Main Rd, Naphill	9	-1	
25	Fixed	TV2407: Thorney Lane, Iver	14	-1	
40	Mobile	TV2132: B4011 Oakley	7	0	
40	Mobile	TV2133:Main Road South, Dagnall	6	0	
40	Mobile	TV2134: A41, Aston Clinton	5	0	
40	Mobile	TV2135:Leighton Road, Wingrave	5	0	
40	Mobile	TV2141:Oving Road, Whitchurch	3	0	
40	Mobile	TV2142:Oxford Road, Stone	3	0	
40	Mobile	TV2143:London Road, Aston Clinton	3	0	
40	Mobile	TV2144:Main Street, Mursley	2	0	
40	Mobile	TV2209: Rignall Road, Gt.Missenden	8	0	
40	Mobile	TV2212: Denham Lane, Chalfont St Peter	6	0	
40	Mobile	TV2213:Wycombe Road, Prestwood	6	0	

Rank	Type	Camera Location	Active (Yrs)	Rated P'rfrmce	% All cameras
40	Mobile	TV2215:Windsor Lane, Lt.Kingshill	4	0	48%
40	Mobile	TV2216:Amersham Road, Lt.Chalfont	3	0	
40	Mobile	TV2217:Weedon Hill, Hyde Heath	3	0	
40	Mobile	TV2218:White Lion Road, Amersham	2	0	
40	Mobile	TV2305:Sawpit Hill, Hazlemere	10	0	
40	Mobile	TV2326:New Road, Walters Ash	6	0	
40	Mobile	TV2329:Holtspur Lane, High Wycombe	5	0	
40	Mobile	TV2334:Hazlemere Road, Penn	8	0	
40	Mobile	TV2335:Blind Lane, Bourne End	8	0	
40	Mobile	TV2336:Brimmers Hill, Widmer End	4	0	
40	Mobile	TV2341:Wycombe Lane, Wooburn Green	2	0	
40	Mobile	TV2342:Chinnor Road, Bledlow Ridge	2	0	
40	Mobile	TV2413:Moorfield Road, Denham	4	0	
40	Mobile	TV2414:Denham Green Lane, Denham Green	2	0	
40	Fixed	TV2101: A4146 Fenny Rd, Stoke Hammond	18	0	
40	Fixed	TV2102: A4146 Leighton Rd, Ellesborough	16	0	
40	Fixed	TV2114: Weedon Rd, Aylesbury	14	0	
40	Fixed	TV2115: A418 Gibratar, Aylesbury	13	0	
40	Fixed	TV2206: A416 Station Rd, Amersham	11	0	
40	Fixed	TV2207: A416 Nashleigh Hill, Amersham	11	0	
40	Fixed	TV2314: A4094 Cores End Rd, Bourne End	13	0	
40	Fixed	TV2323: A40 London Road, High Wycombe	9	0	
40	Fixed	TV2401: A355 Beaconsfield Rd, Farnham Common	17	0	
74	Mobile	TV2121:A413 Wendovr By-Pass	10	1	
74	Mobile	TV2124:Buckingham Road, Aylesbury	10	1	
74	Mobile	TV2136:High Street, Whitchurch	4	1	
74	Mobile	TV2137:B4009, Halton	4	1	
74	Mobile	TV2140:A4146, Stoke Hammond	3	1	
74	Mobile	TV2145:Whaddon Road, Newton Longville	2	1	
74	Mobile	TV2146:A4129, Kingsey	2	1	
74	Mobile	TV2210:Botley Road, Chesham	7	1	
74	Mobile	TV2211:High Street, Prestwood	7	1	
74	Mobile	TV2314: A4094 Cores End Rd, Bourne End	6	1	
74	Mobile	TV2304:New Road, High Wycombe	10	1	
74	Mobile	TV2317:Marlow Hill, High Wycombe	10	1	
74	Mobile	TV2325:Totteridge Lane, High Wycombe	10	1	
74	Fixed	TV2106: A41 London Rd, Aston Clinton	15	1	
74	Fixed	TV2107: A413 Wendover Rd, Aylesbury	15	1	
74	Fixed	TV2109: A41 Bicester Road, Kingswood	15	1	
74	Fixed	TV2305: Holmer Green Rd, Sawpit Hill, Hazlemere	13	1	
74	Fixed	TV2306: Wycombe Rd, Marlow	15	1	
74	Fixed	TV2404: B470 Iver Rd, Iver	15	1	
74	Fixed	TV2405: B416 Gerrards Cross Rd, Stoke Poges	15	1	
94	Mobile	TV2340:Valley Road, Hughenden Valley	3	2	
94	Mobile	TV2416:Richings Way, Iver	2	2	
94	Fixed	TV2110: Elmhurst Rd Aylesbury	15	2	
94	Fixed	TV2311: A40 West Wycombe Rd, High Wycombe	11	2	
94	Mobile	TV2131:Tring Road, Aylesbury	8	2	
99	Mobile	TV2324:Holmer Farm Way, High Wycombe	8	3	
99	Mobile	TV2330:Penn Road, Hazlemere	5	3	
101	Mobile	TV2333:Cressex Road, High Wycombe	8	4	
102	Mobile	TV2415:Oxford Road, Denham	2	5	
	Mobile	TV2147:Buckingham Road, Winslow	<1yr	n/a	
	Mobile	TV2148:Station Road, Quainton	<1yr	n/a	
	Mobile	TV2343:Hithercroft Road, High Wycombe	<1yr	n/a	
	Mobile	TV2344:Treadaway Hill, Flackwell Heath	<1yr	n/a	
	Mobile	TV2345:Missenden Road, Gt.Kingshill	<1yr	n/a	
	Mobile	TV2418:Oxford Road, Denham	<1yr	n/a	
	Mobile	TV2310:Ellesborough Road, Ellesborough	<1yr	n/a	
	Mobile	TV2311:Wycombe Road, Studley Green	<1yr	n/a	

Performance key

	Good
	Weak / No Net Change
	Poor

Table H: Ranked Offence Rates (Bucks)

Rank	District	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'rfmce
1	S.Bucks	Mobile	TV2406:North Orbital Road, Denham	10	2211	Good
2	Wyc	Mobile	TV2329:Holtspur Lane, High Wycombe	5	1123	Weak
3	Ayl	Mobile	TV2131:Tring Road, Aylesbury	8	1056	Poor
4	Ayl	Fixed	TV2110: Elmhurst Rd Aylesbury	15	1023	Poor
5	Ayl	Fixed	TV2117: London Rd, Buckingham	11	872	Good
6	Wyc	Fixed	TV2311: A40 West Wycombe Rd, High Wycombe	11	706	Poor
7	Ayl	Mobile	TV2137:B4009, Halton	4	680	Poor
8	Ayl	Mobile	TV2143:London Road, Aston Clinton	3	667	Weak
9	Wyc	Fixed	TV2302: A4155 Little Marlow Rd, Marlow	17	643	Good
10	Ayl	Mobile	TV2125:Gatehouse Road, Aylesbury	10	612	Weak
11	Wyc	Fixed	TV2323: A40 London Road, High Wycombe	9	561	Weak
12	S.Bucks	Mobile	TV2413:Moorfield Road, Denham	4	545	Weak
13	S.Bucks	Fixed	TV2401: A355 Beaconsfield Rd, Farnham Common	17	525	Weak
14	Wyc	Fixed	TV2305: Holmer Green Rd, Sawpit Hill, Hazlemere	13	511	Poor
15	Wyc	Fixed	TV2321: A410 Aylesbury Rd, Monks Risborough	9	499	Good
16	Ayl	Mobile	TV2145:Whaddon Road, Newton Longville	2	471	Poor
17	Wyc	Mobile	TV2324:Holmer Farm Way, High Wycombe	8	444	Poor
18	Ayl	Mobile	TV2142:Oxford Road, Stone	3	427	Weak
19	Ayl	Fixed	TV2104: A418 Bierton Rd, Aylesbury	15	424	Good
20	Wyc	Mobile	TV2304:New Road, High Wycombe	10	378	Poor
21	Ayl	Mobile	TV2141:Oving Road, Whitchurch	3	377	Weak
22	Chil	Fixed	TV2206: A416 Station Rd, Amersham	11	369	Weak
23	Chil	Mobile	TV2217:Weedon Hill, Hyde Heath	3	367	Weak
24	S.Bucks	Fixed	TV2406: A412 North Orbital Road, Denham	14	360	Good
25	S.Bucks	Mobile	TV2409:Uxbridge Road, Wexham, Iver	3	348	Good
26	Wyc	Mobile	TV2333:Cressex Road, High Wycombe	8	322	Poor
27	Wyc	Fixed	TV2313: B482 High Street, Lane End	13	303	Weak
27	Ayl	Mobile	TV2121:A413 Wendovr By-Pass	10	303	Poor
29	Ayl	Mobile	TV2139:A4146, Stoke Hammond	3	299	Good
30	Wyc	Fixed	TV2312: A4010 Chapel Ln, High Wycombe	14	293	Good
31	Ayl	Mobile	TV2120:A421Tingwick By-Pass	10	284	Good
32	Wyc	Mobile	TV2330:Penn Road, Hazlemere	5	281	Poor
33	Chil	Fixed	TV2208: A413 Gravel Hill, Chalfont St Peter	9	280	Good
34	Chil	Mobile	TV2209: Rignall Road, Gt.Missenden	8	256	Weak
35	S.Bucks	Fixed	TV2407: Thorney Lane, Iver	14	249	Weak
36	S.Bucks	Fixed	TV2403: A4007 Slough Rd, Iver Heath	15	245	Good
37	Ayl	Mobile	TV2140:A4146, Stoke Hammond	3	243	Poor
38	Chil	Fixed	TV2201: A416 Ashley Green Road, Ashley Green	16	232	Good
39	Ayl	Mobile	TV2123:Walton Street, Aylesbury	10	221	Weak
40	Ayl	Fixed	TV2114: Weedon Rd, Aylesbury	14	212	Weak
41	Ayl	Mobile	TV2124:Buckingham Road, Aylesbury	10	197	Poor
42	Ayl	Mobile	TV2132: B4011 Oakley	7	195	Weak
43	S.Bucks	Mobile	TV2416:Richings Way, Iver	2	193	Poor
44	Wyc	Fixed	TV2315: A4094 Wycombe Lane, Wooburn Green	12	191	Good
45	Wyc	Mobile	TV2321:Aylesbury Road, Monks Risborough	10	187	Good
46	Chil	Mobile	TV2210:Botley Road, Chesham	7	186	Poor
47	Wyc	Fixed	TV2303: Desborough Ave, High Wycombe	16	178	Good
48	Wyc	Fixed	TV2309: B482 Seymour Court Rd, Marlow	14	176	Good
49	Wyc	Fixed	TV2304: A4010 New Rd, High Wycombe	16	173	Good

Rank	District	Type	Camera Location	Active (Yrs)	Offence rate 2010	Rated P'rfmce
50	Chil	Fixed	TV2202: B474 Elm Rd, Penn	14	172	Weak
51	Ayl	Mobile	TV2146:A4129, Kingsey	2	171	Poor
52	S.Bucks	Mobile	TV2415:Oxford Road, Denham	2	161	Poor
53	Ayl	Mobile	TV2112: Oakfield Road, Aylesbury	10	154	Weak
54	Wyc	Mobile	TV2339:B4009 Gt.Kimble	3	147	Weak
55	Chil	Mobile	TV2215:Windsor Lane, Lt.Kingshill	4	138	Weak
56	Wyc	Fixed	TV2314: A4094 Cores End Rd, Bourne End	13	137	Weak
56	Wyc	Fixed	TV2314: A4094 Cores End Rd, Bourne End	6	137	Poor
58	Wyc	Mobile	TV2336:Brimmers Hill, Widmer End	4	136	Weak
59	Wyc	Fixed	TV2306: Wycombe Rd, Marlow	15	135	Poor
60	Wyc	Fixed	TV2308: Hedsor Rd, Bourne End	15	133	Weak
60	Chil	Mobile	TV2212: Denham Lane, Chalfont St Peter	6	133	Weak
62	Ayl	Mobile	TV2135:Leighton Road, Wingrave	5	130	Weak
63	Ayl	Fixed	TV2116: Churchill Ave, Aylesbury	12	129	Weak
64	Ayl	Mobile	TV2136:High Street, Whitchurch	4	122	Poor
65	Ayl	Mobile	TV2144:Main Street, Mursley	2	121	Weak
66	Ayl	Mobile	TV2133:Main Road South, Dagnall	6	120	Weak
67	Wyc	Fixed	TV2301: A404 Amersham Rd, Hazlemere	17	116	Good
68	Chil	Fixed	TV2207: A416 Nashleigh Hill, Amersham	11	109	Weak
69	Wyc	Fixed	TV2322: Main Rd, Naphill	9	108	Weak
70	Wyc	Mobile	TV2340:Valley Road, Hughenden Valley	3	98	Poor
71	Chil	Mobile	TV2213:Wycombe Road, Prestwood	6	87	Weak
72	Ayl	Fixed	TV2102: A4146 Leighton Rd, Ellesborough	16	82	Weak
73	Ayl	Fixed	TV2107: A413 Wendover Rd, Aylesbury	15	77	Poor
74	Chil	Mobile	TV2211:High Street, Prestwood	7	76	Poor
74	Ayl	Mobile	TV2134: A41, Aston Clinton	5	76	Weak
76	Wyc	Mobile	TV2326:New Road, Walters Ash	6	75	Weak
77	Wyc	Mobile	TV2335:Blind Lane, Bourne End	8	70	Weak
77	Wyc	Fixed	TV2310: The Pastures, High Wycombe	14	70	Good
79	Wyc	Mobile	TV2317:Marlow Hill, High Wycombe	10	64	Poor
80	Wyc	Mobile	TV2305:Sawpit Hill, Hazlemere	10	55	Weak
81	Ayl	Fixed	TV2106: A41 London Rd, Aston Clinton	15	53	Poor
82	S.Bucks	Fixed	TV2405: B416 Gerrards Cross Rd, Stoke Poges	15	50	Poor
82	Wyc	Mobile	TV2341:Wycombe Lane, Wooburn Green	2	50	Weak
84	Chil	Mobile	TV2218:White Lion Road, Amersham	2	45	Weak
85	Wyc	Mobile	TV2342:Chinnor Road, Bledlow Ridge	2	43	Weak
85	Chil	Mobile	TV2216:Amersham Road, Lt.Chalfont	3	43	Weak
87	Chil	Fixed	TV2203: A40 London Road, Beaconsfield	13	40	Good
88	Wyc	Fixed	TV2307: Hamilton Rd, High Wycombe	15	38	Good
89	Wyc	Mobile	TV2319:A404 Marlow By-Pass	10	33	Weak
89	Ayl	Mobile	TV2107:Wendover Road, Aylesbury	10	33	Good
91	Wyc	Mobile	TV2325:Totteridge Lane, High Wycombe	10	30	Poor
92	Ayl	Fixed	TV2115: A418 Gibraltar, Aylesbury	13	29	Weak
93	S.Bucks	Mobile	TV2414:Denham Green Lane, Denham Green	2	25	Weak
94	Wyc	Mobile	TV2334:Hazlemere Road, Penn	8	21	Weak
95	S.Bucks	Fixed	TV2404: B470 Iver Rd, Iver	15	19	Poor
96	Wyc	Mobile	TV2316:West Wycombe Road, High Wycombe	10	18	Weak
97	Wyc	Mobile	TV2318:Marlow Hill, High Wycombe	10	17	Weak
98	Ayl	Fixed	TV2109: A41 Bicester Road, Kingswood	15	10	Poor
99	Chil	Fixed	TV2204: Waterside, Chesham	13	9	Weak
100	S.Bucks	Fixed	TV2402: A355 Green Man Hill, B'field Rd, F'hm Cmmn	16	4	Good
101	Chil	Fixed	TV2205: A404 Amersham Rd. Little Chalfont	11	0	Weak
101	Ayl	Fixed	TV2101: A4146 Fenny Rd, Stoke Hammond	18	0	Weak
	S.Bucks	Mobile	TV2418:Oxford Road, Denham	<1yr		
	Wyc	Mobile	TV2345:Missenden Road, Gt.Kingshill	<1yr		
	Wyc	Mobile	TV2344:Treadaway Hill, Flackwell Heath	<1yr		
	Wyc	Mobile	TV2343:Hithercroft Road, High Wycombe	<1yr		
	Wyc	Mobile	TV2311:Wycombe Road, Studley Green	<1yr		
	Wyc	Mobile	TV2310:Ellesborough Road, Ellesborough	<1yr		
	Ayl	Mobile	TV2148:Station Road, Quainton	<1yr		
	Ayl	Mobile	TV2147:Buckingham Road, Winslow	<1yr		