

Speed (mph)	Frequency	
x	f	f*x
7	0	0
8	0	0
9	0	0
10	0	0
11	0	0
12	0	0
13	0	0
14	0	0
15	0	0
16	0	0
17	0	0
18	0	0
19	0	0
20	0	0
21	0	0
22	0	0
23	0	0
24	0	0
25	0	0
26	3	78
27	2	54
28	8	224
29	2	58
30	11	330
31	7	217
32	3	96
33	3	99
34	2	68
35	1	35
36	2	72
37	3	111
38	0	0
39	0	0
40	1	40
41	0	0
42	1	42
43	1	43
44	0	0
45	0	0
46	0	0
47	0	0
48	0	0
49	0	0
50	0	0
51	0	0
52	0	0
53	0	0
54	0	0
55	0	0
56	0	0
57	0	0
58	0	0
59	0	0
60	0	0
61	0	0
62	0	0
63	0	0
64	0	0
65	0	0
66	0	0
67	0	0
68	0	0
69	0	0
70	0	0
71	0	0
72	0	0
73	0	0
74	0	0
75	0	0
76	0	0
77	0	0
78	0	0
79	0	0
80	0	0
81	0	0
82	0	0
83	0	0
84	0	0
85	0	0
86	0	0
87	0	0
88	0	0
89	0	0
90	0	0
91	0	0
92	0	0
93	0	0
94	0	0
95	0	0
96	0	0
97	0	0
98	0	0
Total	50	1567

Speed (mph)	Frequency	Class Mark	x - mean	
Band	f	x	e	e*f
6.5-7.4	0	7	592.44	0.00
7.5-8.4	0	8	544.76	0.00
8.5-9.4	0	9	499.08	0.00
9.5-10.4	0	10	455.40	0.00
10.5-11.4	0	11	413.72	0.00
11.5-12.4	0	12	374.04	0.00
12.5-13.4	0	13	336.36	0.00
13.5-14.4	0	14	300.68	0.00
14.5-15.4	0	15	267.00	0.00
15.5-16.4	0	16	235.32	0.00
16.5-17.4	0	17	205.64	0.00
17.5-18.4	0	18	177.96	0.00
18.5-19.4	0	19	152.28	0.00
19.5-20.4	0	20	128.60	0.00
20.5-21.4	0	21	106.92	0.00
21.5-22.4	0	22	87.24	0.00
22.5-23.4	0	23	69.56	0.00
23.5-24.4	0	24	53.88	0.00
24.5-25.4	0	25	40.20	0.00
25.5-26.4	3	26	28.52	85.55
26.5-27.4	2	27	18.84	37.67
27.5-28.4	8	28	11.16	89.24
28.5-29.4	2	29	5.48	10.95
29.5-30.4	11	30	1.80	19.75
30.5-31.4	7	31	0.12	0.81
31.5-32.4	3	32	0.44	1.31
32.5-33.4	3	33	2.76	8.27
33.5-34.4	2	34	7.08	14.15
34.5-35.4	1	35	13.40	13.40
35.5-36.4	2	36	21.72	43.43
36.5-37.4	3	37	32.04	96.11
37.5-38.4	0	38	44.36	0.00
38.5-39.4	0	39	58.68	0.00
39.5-40.4	1	40	75.00	75.00
40.5-41.4	0	41	93.32	0.00
41.5-42.4	1	42	113.64	113.64
42.5-43.4	1	43	135.96	135.96
43.5-44.4	0	44	160.28	0.00
44.5-45.4	0	45	186.60	0.00
45.5-46.4	0	46	214.92	0.00
46.5-47.4	0	47	245.24	0.00
47.5-48.4	0	48	277.56	0.00
48.5-49.4	0	49	311.88	0.00
49.5-50.4	0	50	348.20	0.00
50.5-51.4	0	51	386.52	0.00
51.5-52.4	0	52	426.84	0.00
52.5-53.4	0	53	469.16	0.00
53.5-54.4	0	54	513.48	0.00
54.5-55.4	0	55	559.80	0.00
55.5-56.4	0	56	608.12	0.00
56.5-57.4	0	57	658.44	0.00
57.5-58.4	0	58	710.76	0.00
58.5-59.4	0	59	765.08	0.00
59.5-60.4	0	60	821.40	0.00
60.5-61.4	0	61	879.72	0.00
61.5-62.4	0	62	940.04	0.00
62.5-63.4	0	63	1002.36	0.00
63.5-64.4	0	64	1066.68	0.00
64.5-65.4	0	65	1133.00	0.00
65.5-66.4	0	66	1201.32	0.00
66.5-67.4	0	67	1271.64	0.00
67.5-68.4	0	68	1343.96	0.00
68.5-69.4	0	69	1418.28	0.00
69.5-70.4	0	70	1494.60	0.00
70.5-71.4	0	71	1572.92	0.00
71.5-72.4	0	72	1653.24	0.00
72.5-73.4	0	73	1735.56	0.00
73.5-74.4	0	74	1819.88	0.00
74.5-75.4	0	75	1906.20	0.00
75.5-76.4	0	76	1994.52	0.00
76.5-77.4	0	77	2084.84	0.00
77.5-78.4	0	78	2177.16	0.00
78.5-79.4	0	79	2271.48	0.00
79.5-80.4	0	80	2367.80	0.00
80.5-81.4	0	81	2466.12	0.00
81.5-82.4	0	82	2566.44	0.00
82.5-83.4	0	83	2668.76	0.00
83.5-84.4	0	84	2773.08	0.00
84.5-85.4	0	85	2879.40	0.00
85.5-86.4	0	86	2987.72	0.00
86.5-87.4	0	87	3098.04	0.00
87.5-88.4	0	88	3210.36	0.00
88.5-89.4	0	89	3324.68	0.00
89.5-90.4	0	90	3441.00	0.00
90.5-91.4	0	91	3559.32	0.00
91.5-92.4	0	92	3679.64	0.00
92.5-93.4	0	93	3801.96	0.00
93.5-94.4	0	94	3926.28	0.00
94.5-95.4	0	95	4052.60	0.00
95.5-96.4	0	96	4180.92	0.00
96.5-97.4	0	97	4311.24	0.00
97.5-98.4	0	98	4443.56	0.00
Total	50			745.22

Survey Details

Date: Jul-25
Road / Location: Haigh Lane
Direction of traffic: Northbound
Weather: Dry
Surveyor: GD
Speed Limit: 60mph

DMRB - TA22/81 Calculations

Mean Speed = sum (f*x)/x 31.34 mph
Standard deviation = SQRT(sum(e*f))/sum(f) 3.90 mph

Dry 85th%ile Design Speed = Mean Speed + Standard Deviation
Wet 85th%ile Design Speed Correction = -2.5mph

Therefore, the 85th%ile Wet Condition = 32.74 mph
or
52.68 kph

Calculation of 85th Percentile Design Speed from
Speed Survey

Haigh Lane, Hoylandswaine

SP/01

Jul-25

Job No. 25009