



Traffic Calming Bibliography

INTRODUCTION

The Department for Transport has assisted in providing the legislative framework for traffic calming features, and in developing technical advice to local highway authorities. This leaflet lists the main items of published advice from the Department and TRL Limited, and a selection from other sources.



January 2005

Traffic Advisory Unit

I LEGISLATION

Available from The Stationery Office, Telephone orders 0870 600 5522, Fax. orders 0870 600 5533, email customer.services@tso.co.uk, www.hmso.gov.uk:

Highways Act 1980 ISBN 0105466808 £25.70

The Highways (Road Humps) Regulations 1999 S.I. 1999 No. 1025. £1.50

The Highways (Traffic Calming) Regulations 1999 S.I. 1999 No. 1026. £1.50

Transport Act 2000 ISBN 0105438006 £25.70

The Traffic Signs Regulations and General Directions 2002 S.I. 2002 No. 3113. £40.00

II CIRCULAR ROADS

Unless otherwise specified, available from Chris Dunn, Network Management Policy, Traffic Operations Directorate, Room 406 Sunley Tower, Piccadilly Plaza, Manchester, M1 4BE. Email: chris.dunn@highways.gsi.gov.uk, Tel: 0161 930 5676, Fax: 0161 930 5728. (www.highways.gov.uk)

20 mph Speed Limit Zones

Road Traffic Regulation Act 1984: Sections 81-85
Local Speed Limits (currently being revised).

Road Humps

20 mph Speed Limits, (£5.50, available from The Stationery Office, Telephone orders 0870 600 5522, fax orders 0870 600 5533).

4/90

1/93

4/96

5/99

DfT Circular 02/2003 The Traffic Signs Regulations and General Directions (TSRGD) ISBN 0117536474 (£6.00, available from The Stationery Office, Telephone orders 0870 600 5522, fax orders 0870 600 5533).

III TRAFFIC ADVISORY LEAFLETS

Available free from the Publications Centre. PO Box 236, Wetherby, West Yorkshire LS23 7NB. Tel. 0870 1226 236, Fax. 0870 1226 237, E-mail. dft@twoten.press.net
Web. http://www.dft.gov.uk/stellent/groups/dft_roads/documents/divisionhomepage/032065.hcsp

Regulations

Traffic Calming Special Authorisations

Traffic Calming Regulations

3/93

7/93

Traffic Calming Regulations - Scotland

Highways (Road Humps) Regulations 1996

11/94

7/96

Road humps

Speed Control Humps (Scottish version)

Speed Cushions.

Thumps Thermoplastic Road Humps.

3/91

4/94

7/94

75mm High Road Humps

Speed Cushion Schemes

Sinusoidal, "H" and "S" Humps

2/96

1/98

9/98

Traffic Calming

Urban Safety Management Guidelines from IHT

Rumble Devices

Overrun Areas

Gateways

Entry Treatments

Horizontal Deflections

Raised Rib Markings

Traffic Islands For Speed Control

3/90

11/93

12/93

13/93

2/94

9/94

2/95

7/95

Rising Bollards

Chicane Schemes

Urban Safety Management: using SafeNet Software

Home Zones: Planning and Design

Home Zones: Public Participation

Vehicle Activated Signs

Quiet Lanes

Rumblewave surfacing

4/97

12/97

8/99

10/01

8/02

1/03

3/04

1/05

Speed Limits

20 mph Speed Limit Zone Signs

Speed Limit Signs - A Guide to Good Practice

2/93

1/95

20 mph speed limits and zones

Village Speed Limits

9/99

1/04

Projects

The Carfax, Horsham 20 mph Zone	2/92	Bury St Edmunds Historic Core Zone	13/99
VISP - A Summary	1/94	Traffic Calming on Major Roads: A Traffic Calming Scheme at Costessey, Norfolk	14/99
Traffic Calming on Major Roads: A49, Craven Arms, Shropshire	2/97	Traffic Calming in Villages on Major Roads	1/00
Traffic Calming on Major Roads: A47, Thorney, Cambridgeshire	6/97	Urban Street Activity in 20mph Zones: Ayres Road Area, Old Trafford	12/00
Halifax Historic Core Zone	10/97	Urban Street Activity in 20mph Zones: Seedley, Salford	3/01
Lincoln Historic Core Zone	2/98	Rural Traffic Calming Bird Lane Essex	2/04
Shrewsbury Historic Core Zone	8/98		
Area Safety Scheme in Havant	2/99		

Impacts of traffic calming

Fire and Ambulance Services - Traffic Calming: A Code of Practice	3/94	Road Humps and Ground-borne Vibrations	8/96
Traffic Management in Historic Areas	1/96	Road Humps: discomfort, noise and ground-borne vibrations	10/00
Traffic Management and Emissions	4/96	Village Traffic Calming - reducing accidents	11/00
Traffic Calming: Traffic and Vehicle Noise	6/96		

Reference

Traffic Calming Bibliography	2/05
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IV: PUBLICATIONS FROM TRL LIMITED

All reports listed here are available for purchase from Marketing Department, TRL, Crowthorne House, Nine Mile Ride, Wokingham, Berkshire, RG40 3GA. Switchboard: 01344 773131, Fax: 01344 770880, Email: enquiries@trl.co.uk, www.trl.co.uk.

Road humps

Road Humps for Controlling Vehicle Speed	PR 18	Traffic Calming Speed Cushion Schemes	TRL Report 312
Speed Control Humps - A Trial at TRL	PR 32	Traffic Calming : Sinusoidal, "H" and "S" Humps	TRL Report 377
Speeds at "Thumps" and Low Height Road Humps	PR 101		
Traffic Calming - Road Hump Schemes using 75mm High Humps	TRL Report 186		

Traffic Calming

PTRC paper at European Transport Conference. Urban traffic calming measures Design, effectiveness, public attitudes and environmental issues. R Layfield and D Webster, 1998. - Conference paper available on request	PA 3365/98	Speed Control Using Chicanes - A Trial	PR 102
PTRC paper at European Transport Conference. Traffic calming in villages on major roads. M Taylor and A Wheeler, 1998. Conference paper available on request	PA 3444/99	The Environmental Assessment of Traffic Management Schemes: A Literature Review	TRL Report 174
TRL Traffic Calming (1991 - 2001)	CTX01	Traffic Calming: Vehicle Activated Speed Limit Reminder Signs	TRL Report 177
Abstracts of traffic calming literature		Traffic Calming - four schemes on distributor roads	TRL Report 182
Traffic Calming Update (2001 - 2003)	Report CT1.3	Trials of rural road safety engineering measures	TRL Report 202
Traffic calming: selected TRL research and guidance (6 reports)	PR014	Review of Traffic Calming Schemes in 20 mph Zones	TRL Report 215
An assessment of rumble strips and rumble areas	PR 33	Cyclists at road narrowings.	TRL Report 241
		Traffic Calming - Public Attitude Surveys: A Literature Review	TRL Report 311
		Traffic Calming - An Assessment of Selected on Road Chicane Schemes	TRL Report 313

Urban Speed Management Methods	TRL Report 363	Development of a Novel Traffic Calming Surface 'Rippleprint'	TRL Report 545
Traffic calming in villages on major roads: Final report	TRL Report 385	Vehicle Activated Signs - A Large Scale Evaluation	TRL Report 548
Traffic calming - Literature search on the design and performance of traffic calming measures	TRL Report 439	Road design measures to reduce drivers' speed via "psychological" processes: A literature review	TRL Report 564
An Assessment of Traffic Calming for Trunk Roads Using the TRL Simulator	TRL Report 539		

Projects

Traffic Calming on Major Roads: The A49 Trunk Road at Craven Arms, Shropshire	TRL Report 212	Countryside Traffic Measures Group: Traffic calming schemes in Norfolk and Suffolk	TRL Report 500
Traffic Calming On Major Roads: The A47 Trunk Road At Thorney, Cambridgeshire	TRL Report 238	Countryside Traffic Measures Group: A traffic calming scheme at Charlwood Surrey	TRL Report 501
Traffic Calming in Historic Core Zones - Crossley Street, Halifax	TRL Report 288	Countryside Traffic Measures Group: Demonstration schemes	TRL Report 502
A traffic calming scheme at Costessey, Norfolk	TRL Report 364	Pilot Home Zone schemes: Evaluation of the Methleys, Leeds	TRL Report 586
Traffic calming in Historic Core Zones - High Street Route, Shrewsbury	TRL Report 374	Gloucester Safer City: final report	TRL Report 589
Traffic calming in historic core zones: Bury St Edmunds	TRL Report 388	Rural traffic calming in Bird Lane, Essex	TRL Report 597
Traffic calming: Environmental assessment of the Leigh Park Area Safety scheme	TRL Report 397	Kent Quiet Lanes Scheme	TRL Report 602
		Norfolk Quiet Lanes Scheme	TRL Report 603
		Trends in speed, emissions and air quality during the Gloucester Safer City Project	TRL Report PR SE/582/2002

Impacts of traffic calming

Vehicle and Traffic Noise Surveys alongside Speed Control Cushions in York	PR 103	Traffic calming: passenger and rider discomfort at sinusoidal, round-top and flat-top humps - a track trial at TRL	TRL Report 417
The environmental assessment of traffic management schemes: a literature review	TRL Report 174	Remote sensing of vehicle emissions near two traffic calming measures in Gloucester	TRL Report 423
Traffic Calming: Vehicle Noise Emissions alongside Speed Control Cushions and Road Humps	TRL Report 180	Changes in accident frequency following the introduction of traffic calming in villages by A H Wheeler and M C Taylor, 2000. £25.00	TRL Report 452
Traffic Calming: Vehicle Generated Ground-borne Vibrations alongside Speed Control Cushions and Road Humps	TRL Report 235	The impacts of traffic calming measures on vehicle exhaust emissions, 2001. £50.00	TRL Report 482
Traffic Calming and Vehicle Emissions: A Literature Review	TRL Report 307	Traffic management and air quality: realistic driving cycles for traffic management schemes	TRL Report 596
Traffic management and air quality research programme	TRL Report 327	Impact of road humps on vehicles and their occupants	TRL Report 614
The perceived environmental impacts of traffic management schemes: a literature review	TRL Report 362	Prediction of ground-borne vibration generated by heavy vehicles crossing a rumblewave device	TRL Report PPR020
Traffic calming: vehicle generated noise and ground-borne vibration alongside sinusoidal, round-top and flat-top road humps	TRL Report 416		

V: OTHER DEPARTMENTAL PUBLICATIONS

Available from The Stationery Office,
Telephone orders 0870 600 5522, Fax. orders 0870 600 5533,
email. customer.services@tso.co.uk

- Design Bulletin 32 (2nd edition). Residential Roads and Footpaths. ISBN 011 752641X £18.00
- Places, Streets & Movement A companion guide to Design Bulletin 32 Residential Roads and footpaths ISBN 1851121137

Available from DfT Free Literature, PO Box 236, Wetherby, W Yorkshire, LS23 7NB, Tel. 0870 1226 236, Fax. 0870 1226 297

- Tomorrow's Roads - Safer for Everyone, 2000
- New Directions in Speed Management - A Review of Policy, 2000. Department for Transport 2001
- Road Safety Good Practice Guide 2001
- Inclusive Mobility - A Guide to Best Practice on Access to Pedestrian and Transport Infrastructure. DfT 2003
- Walking and Cycling: an action plan. DfT 2004

Available free from the Mobility Unit, Zone 4/23, Great Minster House, 76 Marsham Street, London SW1P 4DR. Tel. 020 7944 6100, Fax. 020 7944 6102

- Guidance on the use of Tactile Paving Surfaces 1998. Product code 99MU0024

VI: OTHER PUBLICATIONS, MAGAZINE ARTICLES AND VIDEOS

- 20mph Speed Reduction Initiative, Scottish Executive Central Research Unit, 2001, £10 (Available from Stationery Office Bookshop, 71 Lothian Road, Edinburgh, EH3 9AZ. Tel: 0870 606 5566 Fax: 0870 606 5588)
- Emissions Modelling and Traffic Management, TRAMAQ Project UG218 final report, 2004. (Available from TTR Tel. 01543 416416)
- Historic Core Zones Project Review Report No 53, English Historic Towns Forum, 2003. (Available from EHTF, PO Box 22, Bristol BS16 1RZ, Tel. 0117 975 0459, Fax. 0117 975 0460. www.ehtf.org.uk)
- Home Zone Design Guidelines £28.00 Institute of Highway Incorporated Engineers, 2002.
- Kent Quiet Lanes Video £10.00 (Available from Kent County Council Telephone 01622 663306 (Monday to Friday 11am - 3pm only))
- Lighting for Traffic Calming Schemes, Technical Report 25. The Institution of Lighting Engineers, 2002.
- National Assembly for Wales Circular 5/99 - 20mph Speed Limits. Available from Transport Directorate National Assembly for Wales, Tel. 029 20826 502
- Natural traffic calming - Guidance and research report. 1999, Scottish Executive
- Norfolk Quiet Lanes Pilot Project Technical Report 1 Scheme Implementation 2000 (Available from Norfolk County Council, Department of Planning and Transportation, County Hall, Martineau Lane, Norwich, Norfolk NR1 2SG)
- Public Engagement and Quiet Lanes around the Greensand Ridge - A National Demonstration Project in Kent. Kent County Council 2002
- Road Safety Engineering Manual 3rd edition. The Royal Society for the Prevention of Accidents 2002 (RoSPA House, Edgbaston Park, 353 Bristol Road, Birmingham B5 7ST. Tel. 0121 248 2000, Fax. 0121 248 2001, www.rospa.com)
- Road Safety Strategy for Wales - January 2003 Available from the Transport Directorate National Assembly for Wales, Tel. 029 20826 502
- Sources of Particulate Matter in Urban Areas: TRAMAQ Project UG 250 Environmental Resources Management, 8 Cavendish Square, London W1G 0ER Tel. 020 7465 7200, Fax. 020 7465 7272, Email post@ermuk.com, <http://www.ermuk.com>
- Traffic Calming Techniques: Experience and practical advice with 80 case studies. IHT and CSS, 2005. Available from IHT, Tel. 020 7387 2525, Email publications@iht.org
- The Community Impact of Traffic Calming Schemes 1999, Scottish Executive (Available from Scottish Executive Desk, The Stationery Office Bookshop, 71 Lothian Road, Edinburgh, EH3 9AZ Tel. 0870 606 5566, Fax. 0870 606 5588)
- The Rural Town and Village Trunk Road Initiative , 2001. Available at www.wales.gov.uk/subitransport/content/initiative/htm
- Traffic Calming Trials - review of schemes on the trunk and principal road network in Wales, 1999. (Available from Transport Directorate National Assembly for Wales. Tel. 029 20826 502)

- Urban Street Activity in 20mph zones: final report
Babtie Group, 2001
- Urban Safety Management Guidelines Institution
of Highways and Transportation 1990 £20.00
- VISIP Video. Traffic Calming through villages.
Tel. 01344 770 738
- Walking and Cycling Strategy for Wales - Dec 2003.
Available from the Transport Directorate National
Assembly for Wales, Tel. 029 20826 502

A number of other publications on traffic calming are available from the Institution of Civil Engineers, 1 Great George Street, London SW1P 3AA, Tel: 020 7222 7722, www.ice.org.uk

VII: INTERNET LINKS

- Countryside Agency Quiet Lanes Technical Guidance
www.quiet-lanes.gov.uk/site/pace/default.htm
- County Surveyors Society
www.cssnet.org.uk
- Home Zone Challenge
www.homezoneschallenge.com
- Home Zone News
www.homezonenews.org.uk
- Institute of Highway Incorporated Engineers
www.ihie.org.uk
- The Institution of Highways and Transportation
www.iht.org
- Traffic Management and Air Quality Research Programme (TRAMAQ)
www.dft.gov.uk/stellent/groups/dft_roads/documents/page/dft_roads_508003.hcsp
- Department for Transport website: Traffic Advisory Leaflets http://www.dft.gov.uk/stellent/groups/dft_roads/documents/divisionhomepage/032065.hcsp

Details of Traffic Advisory Leaflets available on the DfT website can be accessed as follows: www.dft.gov.uk
From the DfT homepage, click on Roads and Vehicles, then Traffic and Parking Management and then Traffic Advisory Leaflets.

The Department for Transport sponsors a wide range of research into traffic management issues. The results published in Traffic Advisory Leaflets are applicable to England, Wales and Scotland. Attention is drawn to variations in statutory provisions or administrative practices between the countries. The Traffic Advisory Unit (TAU) is a multi-disciplinary group working within the Department for Transport. The TAU seeks to promote the most effective traffic management and parking techniques for the benefit, safety and convenience of all road users.

Department for Transport

Requests for unpriced TAU publications to:
Walking and Cycling Unit,
Zone 3/17, Great Minster House
76 Marsham Street, London, SW1P 4DR.
Telephone 020 7944 2478
e-mail: tal@dft.gsi.gov.uk



Cycling



Traffic
Management



Walking



Bus Priority
Systems



Parking



Signs and
Signals



Intelligent
Transport Systems

Scottish Executive

Within Scotland enquiries should be made to:
Scottish Executive, Development
Department, Transport Division 3, Zone 2-F,
Victoria Quay, Edinburgh, EH6 6QQ,
Telephone 0131 244 0847
e-mail: roadsafety2@scotland.gsi.gov.uk

Llywodrath Cynulliad Cymru Welsh Assembly Government

Within Wales, enquiries should be made to:
Welsh Assembly Government,
Transport Directorate, 2nd Floor, Cathays Park,
Cardiff, CF10 3NQ
Telephone 02920 826947
e-mail: andrew.hemmings@wales.gsi.gov.uk