

**SWOV-reports, publications, contributions and articles
1985-1995**

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Stichting
Wetenschappelijk Postbus 1090
Onderzoek 2260 BB Leidschendam
Verkeersveiligheid Duindoorn 32
SWOV telefoon 070-3209323
 telefax 070-3201261

Foreword

In this brochure you will find lists of publications of research carried out by the SWOV Institute for Road Safety Research. Only reports and other publications written in other languages than Dutch are mentioned. The references in this brochure concern 1985 till 1995.

The publications in the chapters 1. and 2. are at request available from the Public Relations Department. All other publications are only available from the original publishers.



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1. Reports and consults

Splash and spray by lorries. J.P.M. Tromp. R-85-5. 24 pp.

Effects of road safety measures in urban areas in the Netherlands. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 1, pp. 168-183. ONSER, Paris, 1985. S.T.M.C. Janssen. R-85-11. 26 pp.

Contribution to evaluation of intermediate variables; Background paper. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 2, pp. 317-323. ONSER, Paris, 1985. S. Oppe. R-85-12. 12 pp.

Subjective evaluation and public participation. Contribution to: Biecheler, M.B.; Lacombe, C. & Mühlrad, N. (ed.). "Evaluation 85", International meeting on the Evaluation of local traffic safety measures, Paris, 20-23 May 1985, Tome 2, pp. 423-427. ONSER, Paris, 1985. J.H. Kraay & S. Oppe. R-85-13. 12 pp.

The application of electronics in traffic risk control. Contribution to CEC/ECMT/COST International seminar Electronics and traffic on major roads; Technical, reglementary and ergonomic aspects, Paris, 4-6 June 1985, Session 3: Assessment, Preprints, pp. 133-145. P.I.J. Wouters. R-85-17. 25 pp.

Advisory speed limits: Should they be expanded or not? Contribution XVth International Study Week Traffic Engineering and Safety: Traffic engineering & the driver, Theme 2: Speed limits and the driver, Venice, 23-28 September 1985. F.C.M. Wegman. R-85-26. 13 pp.

Flächenhafte Verkehrsberuhigung in Holland: Planungskonzept und Ergebnisse der Vorher-Nachher-Untersuchungen in Eindhoven und Rijswijk. Beitrag 3. Kolloquium Forschungsvorhaben "Flächenhafte Verkehrsberuhigung", Dienstag den 1. Oktober 1985, Reichtagsgebäude, Berlin. J.H. Kraay. R-85-29. 32 S.

An international study on the calibration of traffic conflict techniques. Lecture presented at the Technical University, Espoo, Finland, May 14th 1985. J.H. Kraay. R-85-38. 34 pp.

Traffic safety in reconstructed streets. Lecture presented at the Technical University, Espoo, Finland, May 14th 1985. J.H. Kraay. R-85-39. 42 pp.

Reclassification and reconstruction of urban areas in Eindhoven and Rijswijk. Lecture presented at Helsinki University, Helsinki, Finland, May 16th 1985. J.H. Kraay. R-85-40. 52 pp.

Investigation into the effect of the 30 km/hr countermeasure; Organisation and approach. Lecture presented at Helsinki University, Helsinki, Finland, May 16th 1985. J.H. Kraay. R-85-41. 41 pp.

The Trautenfels study; A diagnosis of road safety using the Dutch conflict observation technique DOCTOR. J.H. Kraay (SWOV) & A.R.A. van der Horst (IZF-TNO). R-85-53. 33 pp.

Design method for the lighting of tunnels based on the assessment of the veiling luminance. Contribution to the Fifth European Light Congress V LUX Europa 1985. 9-11 September 1985, Lausanne, Switzerland. Reports to the Conference No. 16. Dr. D.A. Schreuder (SWOV) & H.J.C. Oud (Rijkswaterstaat). R-85-67. 15 pp.

Remedies for defect accidents. Contribution to XXI FISITA Congress. Belgrade, Yugoslavia, 2-6 June 1986. J.P.M. Tromp. R-86-15. 16 pp.

Roundabouts; Some remarks on the safety and the capacity of roundabouts and roundabout priority systems. Contribution to discussions in CCMT/CCSR and CSR meetings on 9-11 September 1986. J. van Minnen. R-86-18. 16 pp.

Linking road accident data to other files; An integrated Road Accident Recordkeeping System. Contribution to: Road Safety, Proceedings of Seminar P held at the 14th PTRC Summer Annual Meeting, University of Sussex, England, from 14-17 July 1986. Volume P 284, pp. 55-86. PTRC Education and Research Services Ltd., London, 1986. S. Harris M.A. R-86-20. 34 pp.

Liaison des données sur les accidents de la route avec d'autres fichiers; Un Système Intégré d'Enregistrement des Accidents de la Route. Etude présentée à la session d'été annuelle du PTRC, Université du Sussex, Grande-Bretagne, 14-18 Juillet 1986. S. Harris. R-86-21. 38 pp.

Woonerfs and other experiments in The Netherlands. J.H. Kraay. R-86-23. 13 pp. Article Built Environment 12 (1986) 1/2 : 20-29.

Safety barriers for motorways; Shoulder and bridge safety barriers and impact attenuators surveyed and assessed. SWOV (C.C. Schoon, T. Heijer, W.H.M. van de Pol & D.J.R. Jordaan). R-86-24. 122 pp.

Developments in road safety research. Closing lecture at the International Seminar 'Recent developments in road safety research', The Hague, 20 November 1986. Prof. E. Asmussen. R-86-28. 13 pp.

The function of road markings in relation to driver's visual needs. Dr. D.A. Schreuder. R-86-29. 103 pp.

Light trespass; Causes, remedies and actions. Paper presented at the CIE/MBE symposium 'Lighting and Signalling for Transport', Budapest, 22-23 September 1986. Dr. D.A. Schreuder. R-86-31. 28 pp.

Proceedings of the International Workshop Recent Developments in Road Safety Research, The Hague, The Netherlands, 19 November 1986. J.H. Kraay & G.C. Ederveen (eds). (Contributions of: F.C.M. Wegman, S. Oppe, J.H. Kraay, S.T.M.C. Janssen, P. Wesemann, A.G. Welleman, P.H. Polak, C.M. Gundy, T. Heijer, D.A. Schreuder, R. Roszbach a.o.). R-87-3. SWOV, Leidschendam, 1987. 250 pp.

Die Niederländische Konfliktbeobachtungstechnik "DOCTOR". Beitrag 18. Budapest Internationaler Wissenschaftliche Beratung für Verkehrsplanung und Verkehrstechnik "Theorie und Praxis des Stadtverkehrssicherheit", Budapest, 7.-9. April 1987. J.H. Kraay. R-87-13. SWOV, Leidschendam, 1987. 8 pp.

Safety in residential areas; The European viewpoint. Presented to the Conference on Road Accidents in Childhood, organised by the Parliamentary Advisory Council for Transport Safety (PACTS), London, Tuesday 3rd November 1987. Joop H. Kraay. R-87-20. SWOV, Leidschendam, 1987. 16 pp.

Ridendo dicere verum (Telling the truth with a smile). Presented at the International Seminar on Road Safety "Europäisches Jahr der Straßenverkehrssicherheit 1986 - Erkenntnisse?" held at the Polizeiführungsakademie, Münster, Federal Republic of Germany, 6-8 October 1987. M.J. Koornstra. R-87-35. SWOV, Leidschendam, 1987. 20 pp.

Daytime running lights: The attention lights; A literature survey of daytime running lights for motor vehicles and their effect on road safety in the Netherlands. Dr. P.H. Polak. R-87-36. SWOV, Leidschendam, 1987. 34 pp.

On the way to integrated road safety programmes. Paper presented to the 3rd PRI World Road Safety Congress, June 11-14, 1988, Montreal, Canada. F. Wegman & S. Oppe. R-88-11. SWOV, Leidschendam, 1988. 18 pp.

The predetermination of the luminance in tunnel entrances at day. Dr. D.A. Schreuder (SWOV) & H.J.C. Oud (Locks and Weirs Division, Rijkswaterstaat). R-88-13. SWOV, Leidschendam, 1988. 62 pp.

The lighting of traffic tunnels; A paper presented at a meeting of the Shanghai Association for Science and Technology SAST, October 9 and October 12, 1987. Dr. D.A. Schreuder. R-88-18. SWOV, Leidschendam, 1988. 14 pp.

Safety effects of bicycle facilities; The Dutch experience. Contribution to the International Road and Traffic Conference ROADS AND TRAFFIC 2000, 16th International Study Week for Traffic Engineering and Safety, Berlin, 6-9 September 1988, Theme 4E: Safety aspects of cycle paths. F. Wegman & A. Dijkstra. R-88-21. SWOV, Leidschendam, 1988. 12 pp.

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Red-light violations at level crossings; Results of roadside interviews. Contribution to VTI/INRETS Conference "Road Safety in Europe", Gothenburg, Sweden, 12-14 October 1988. R.D. Wittink. R-88-34. SWOV, Leidschendam, 1988. 7 pp.

Visual performance and road safety. Dr. D.A.Schreuder. R-88-46. SWOV, Leidschendam, 1988. 13 pp.

Daytime running lights; Consultative document commissioned by the Road Safety Directorate. Dr. D.A. Schreuder. R-88-54. SWOV, Leidschendam, 1988. 56 pp.

Road safety and daytime running lights; A concise overview of the evidence. Paper presented to the Joint Meeting of the ECMT's Road Safety Committee and Committee for Road Traffic, Signs and Signals, The Hague, The Netherlands, 15 March, 1989. M.J. Koornstra. R-89-4. SWOV, Leidschendam, 1989. 14 pp.

Safety aspects of urban infrastructure; From traffic humps to integrated urban planning. Paper presented to the International Conference on Traffic and Environmental Management in Cities, Prague, Czechoslovakia, 23-24 May 1989. J.H. Kraay & A. Dijkstra. R-89-14. SWOV, Leidschendam, 1989. 15 pp.

Use of the helmet retention systems in the Netherlands. J.J.W. Huijbers. R-89-18. SWOV, Leidschendam, 1989. 8 pp.

Daytime running lights (DRL); A masterplan for evaluation research (Shortened version). Drs. J.E. Lindeijer. R-89-24. SWOV, Leidschendam, 1989. 21 pp.

Daytime running lights (DRL); A masterplan for an evaluation study in the Netherlands. J.E. Lindeijer. R-89-49. SWOV, Leidschendam, 1989. 48 pp.

The relationship between the level of street lighting and the traffic safety; A preliminary study. Dr. D.A. Schreuder. R-89-55. SWOV, Leidschendam, 1989. 44 pp.

Utilization of security helmets for two-wheeled vehicle riders. J.J.W. Huijbers. R-90-6. SWOV, Leidschendam, 1990. 107 pp.

Possibilities of a DRL-experiment in the Netherlands; Northern lights campaign; Account of an analysis to enable statements concerning the duration and scope of an experiment on daytime running lights (DRL) in the northern provinces of the Netherlands. J.E. Lindeijer & F.D. Bijleveld. R-90-37. SWOV, Leidschendam, 1990. 58 pp.

Design of a study into the effects of DRL on accident rates; Methods of analyses and evaluation techniques. J.E. Lindeijer; F.D. Bijleveld; S. Oppe & P.H. Polak. R-90-39. SWOV, Leidschendam, 1990. 46 pp.

Visual perception and daytime running lights (DRL); A literature study. M.P. Hagenzieker. R-90-43. SWOV, Leidschendam, 1990. 69 pp.

Accident typology. C.M. Gundy. R-90-48. SWOV, Leidschendam, 1990. 164 blz.

After seven years RIMOB in practice; An evaluation of the Dutch impact attenuator RIMOB. C.C. Schoon. R-90-49. SWOV, Leidschendam, 1990. 39 pp.

Auswertung des Anpralldämpfers "RIMOB". C.C. Schoon. R-90-50. SWOV, Leidschendam, 1990. 42 S.

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Evaluation of three years "Familie Oudenrijn" and the associated information policy. R.D. Wittink & M.P. Hagenzieker. R-91-11. SWOV, Leidschendam, 1991. 14 pp.

Effectiveness and cost of car front end design for pedestrian injury prevention and the problem of conflicting requirements; A literature review. L.T.B. van Kampen. R-91-16. SWOV, Leidschendam, 1991. 35 pp.

The use of seat belts and contributing factors; An international comparison. T. Mäkinen (VTI); R.D. Wittink & M.P. Hagenzieker. R-91-30. SWOV, Leidschendam, 1991. 57 blz.

The use of daytime running lights (DRL) in the Netherlands; Methods of analysis to link user data to accidents and a description of the use of DRL in the Netherlands from November 1, 1989 to October 31, 1990. J.E. Lindeijer & F.D. Bijleveld. R-91-37. SWOV, Leidschendam, 1991. 92 pp.

Benelux test with daytime running lights (DRL); Master plan for an evaluation study into the effect of DRL on road safety in the Benelux countries. J.E. Lindeijer. R-91-38. SWOV, Leidschendam, 1991. 90 pp.

Is my country safer than others? A comparison of road safety data between different countries. Paper presented to the PIARC XIth World Road Congress, Marrakesh, Morocco, 22-28 September 1991. S. Harris & F.C.M. Wegman. R-91-57. SWOV, Leidschendam, 1991. 16 pp.

Statistical assessment and targets. Contribution to PIARC XIXth World Road Congress, Ad hoc Group IV: Road Safety, Marrakesh, Morocco, 22-28 September 1991. F.C.M. Wegman. R-91-58. SWOV, Leidschendam, 1991. 16 pp.

Strategies to increase the use of restraint systems. Proceedings of a Workshop organized by SWOV and VTT at the VTI-TRB International Conference Traffic Safety on Two Continents, Gothenburg, 18-20 September 1991. M.P. Hagenzieker (Ed.). R-91-60. SWOV, Leidschendam.

Visibility aspects of the driving task: Foresight in driving; A theoretical note. Dr. D.A. Schreuder. R-91-71. SWOV, Leidschendam, 1991. 32 pp.

Motorway lighting under fog conditions. Based on a paper presented at Japan Highway Corporation, Tokyo, 12 July 1990. Dr. D.A. Schreuder. R-91-72. SWOV, Leidschendam, 1991. 58 pp.

Fog lamp regulation as a measure to reduce risk in fog conditions. S. Oppe. R-91-87. SWOV, Leidschendam, 1991. 8 blz.

Strategies in behaviour modification: Theoretical background. An introductory literature study for the OECD-Expert Group on "Enforcement and Rewarding: Strategies and effects". M.J. Koornstra. R-91-97. SWOV, Leidschendam, 1991. 23 pp.

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A general system approach to collective and individual risk in road safety, Paper presented to the Interational Symposium on Driving Behaviour in a Social Contaxt, Paris, France, 16-18 May 1989, organized by La Prevention Routière. M.J. Koornstra. D-91-3. SWOV, Leidschendam, 1991. 54 pp.

The evolution of mobility and road safety; Paper 3rd INSIRT Round Table 'The Future of Mobility', Toulouse, France, 1991 and 6th World Conference on Transport Research, Lyon, France, 1992. M.J. Koornstra. R-92-36. SWOV, Leidschendam, 1992. 52 pp.

New pedestrian facilities; Technique, observations and opinions; The Dutch experiment. Drive project V1061: Pussycats. Dr. P.B.M. Levelt. R-92-55. SWOV, Leidschendam, 1992. 114 pp.

Improvement of pedestrian safety and comfort at traffic lights; Results from French, British and Dutch field tests. Drive project V1061: Pussycats. Dr. P.B.M. Levelt. R-92-56. SWOV, Leidschendam, 1992. 116 pp.

Automatic enforcement of speed and red light violations; Applications, experiences and developments. Dr. T. Mäkinen (VTT Technical Research Center of Finland) & Oei Hway-liem (SWOV). R-92-58. SWOV, Leidschendam, 1992. 26 blz.

Strategies for improving road safety in the Netherlands: Past and future. Contribution to the 5th World Congress of the International Road Safety Organisation (P.R.I), Istanbul, 12-14 May 1992. P. Wesemann. D-92-1. SWOV, Leidschendam, 1992. 11 blz.

Young moped riders: Reducing high risks and high insurance premiums. Paper presented to the International Conference on Automobile Insurance and Road Accident Prevention, Amsterdam, 6-8 April 1992. Ir. F.C.M. Wegman. D-92-2. SWOV, Leidschendam, 1992. 13 blz.

Eye movements in traffic safety research. Paper presented at the Third International Conference on Visual Search, Nottingham, August 1992. M.P. Hagenzieker. D-92-3. SWOV, Leidschendam, 1992. 9 blz.

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Experiences with new roundabouts in The Netherlands. Paper presented to the International Seminar 'Giratoires 92', Nantes, 14-16 October 1992. J. van Minnen. D-92-9. SWOV, Leidschendam, 1992. 10 pp.

Research and road safety in Europe. Introduction speech presented at the International Conference 'Road Safety in Europe', Berlin, 30 Sept - 2 Oct 1992. M.J. Koornstra. D-92-10. SWOV, Leidschendam, 1992. 16 pp.

Predictions of road safety in industrialized countries and Eastern Europe; An analysis based on models for time series of fatality rates and motorized vehicle kilometers or amounts of passenger cars. Paper presented at the International Conference "Road Safety in Europe", Berlin, 30 September - 2 October 1992. M.J. Koornstra & S. Oppe. D-92-11. SWOV, Leidschendam, 1992. 22 pp.

Long-term requirements for road safety: Lessons to be learnt. Paper presented at the OECD-Seminar on "Road Technology Transfer and Diffusion for Central and East European Countries", Budapest, 12-14 October 1992. M.J. Koornstra. D-92-12. SWOV, Leidschendam, 1992. 28 pp.

Strategies for traffic safety throughout Europe. Paper presented at the International Seminar "The European Common Market: Impacts into Road Safety", Polizei-Führungsakademie, Munster, 24-27 March 1992. D-92-13. 12 pp.

Road safety, transport research and the European Community; A state-of-the-art overview. Paper presented at the 1st World Conference on "Safety of Transportation", Delft University of Technology, 26-27 November 1992. M.J. Koornstra. D-92-14. SWOV, Leidschendam, 1992. 28 blz.

Traffic and traffic safety in Central and Eastern European Countries. Paper presented for 17th International study work on traffic engineering and safety: Road traffic; Finding a new balance, Warsaw, 7-12 September 1992. S. Oppe & M.J. Koornstra. D-92-15. SWOV, Leidschendam, 1992. 8 pp.

HID car headlights and road safety; A state of the art report on high-pressure gas-discharge lamps with an examination of the application of UV radiation and polarised light. C.C. Schoon & dr. D.A. Schreuder. R-93-70. SWOV, Leidschendam, 1993. 33 pp.

Guidelines for Retrospective Safety Analysis. Prepared for DRIVE II-Project V2002 Horizontal Project for the Evaluation of Safety (HOPES). S. Oppe (Ed.). R-93-75. SWOV, Leidschendam, 1993. 148 pp.

Improving safety in young drivers: in search of possible solutions; Paper contributed to International Symposium 'Young Drivers', Lisbon, 27-28 May 1993. D.A.M. Twisk. D-93-2. SWOV, Leidschendam, 1993. 7 pp.

Computer simulation and vehicle front optimisation; Paper contributed to 26th International Symposium on Automotive Technology and Automation, Dedicated Conference on Road and Vehicle Safety, Aachen, Germany, 13-17 September 1993. J. van der Sluis. D-93-3. SWOV, Leidschendam, 1993. 8 pp.

Young drivers: Driving behaviour, accidents, and countermeasures; Paper contributed to 193 Plenary Meeting of the Motor Insurance Committee Road Safety and Young Drivers, Madrid, 1/2 July 1993. F.C.M. Wegman & D.A.M. Twisk. D-93-4. SWOV, Leidschendam, 1993. 9 pp.

Lessons to be learnt?; When writing a National Road Safety Plan for Central and East European Countries. F.C.M. Wegman. D-93-6. SWOV, Leidschendam, 1993. 14 pp.

SWOV-VVN visit to Hungary. D-93-8. SWOV, Leidschendam, 1993. 7 pp.

SWOV-VVN visit to Czech Republic. D-93-9. SWOV, Leidschendam, 1993. 6 pp.

Sicherer fahren mit Licht am Tag. Vortrag Enquête des Kuratorium für Verkehrssicherheit, Wien, 10 November 1993. J.L. Lindeijer. D-93-13. SWOV, Leidschendam, 1993. 8 S.

Mehr Selbstkontrolle durch Fremdkontrolle?; Beeinflussung des Geschwindigkeitsverhaltens durch präventive Polizeikontrolle. Vortrag für die Verkehrssicherheitswoche 1993, Wien, 12 Oktober 1993. P. Wesemann. D-93-15. SWOV, Leidschendam, 1993. 11 S.

Road safety in residential areas; The Dutch experiences. Paper presented to PIARC Committee 13 Road Safety Meeting, Yokohama, 26-27 April 1993. F.C.M. Wegman. D-93-16. SWOV, Leidschendam, 1993. 5 pp.

Assessing the safety of the road network: A simple method. Paper presented to East West European Road Conference, Warsaw, 22-24 September 1993. S.T.M.C. Janssen. D-93-17. SWOV, Leidschendam, 1993. 4 pp.

Die Verkehrssicherheit in den Niederlanden. Referenz Jahreshauptversammlung der Landesverkehrswacht Niedersachsen, Holzminden, 7/8 Mai 1993. P.C. Noordzij. D-93-20. SWOV, Leidschendam, 1993. 14 S.

Future developments of motorized traffic and fatalities in Asia. Revised version of the paper presented at the Conference on Asian Road Safety 1993 (CARS 93), Kuala Lumpur, Malaysia, 25-28th October 1993. M.J. Koornstra. D-93-22. SWOV, Leidschendam, 1993. 17 pp.

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Growth of motorized mobility and strategies for road safety. M.J. Koornstra. D-93-24. SWOV, Leidschendam, 1993. 8 pp.

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Incidences des normes de conception sur la sécurité routière: Recherche réalisée pour la Commission Européenne (DG VII). H.G.J.C.M. Ruyters; M. Slop & F.C.M. Wegman (réd.). R-94-7 (F). SWOV, Leidschendam, 1994. 76 p.

Regionale Unterschiede und Ähnlichkeiten in Meinungen über den Verkehr in der Schweiz; Ein Vergleich der Resultate der SARTRE-Erhebung in drei Regionen der Schweiz und in vier Regionen in Nachbarländern. Dr. Ch. Goldenbeld. R-94-8. SWOV, Leidschendam, 1994. 50 blz.

Differences and similarities between European drivers in opinions about traffic measures; A cross-national study of the results of the SARTRE-survey. Dr. Ch. Goldenbeld. R-94-9. SWOV, Leidschendam, 1994. 68 blz.

Proposal for a point demerit system in Hungary. D.A.M. Twisk & R.D. Wittink. R-94-13. SWOV, Leidschendam, 1994. 39 blz.

Young driver accidents in Europe; Characteristic young driver accidents in the member states of the EU. D.A.M. Twisk. R-94-18. SWOV, Leidschendam, 1994. 39 pp.

Road Safety Impact Assessment: RIA; A proposal for tools and procedures for a RIA. A study commissioned by the European Commission DG VII. F.C.M. Wegman; R. Roszbach; J.A.G. Mulder; C.C. Schoon & F. Poppe. R-94-20. SWOV, Leidschendam, 1994. 37 pp.

Frontal collisions between trucks and cars; The dutch contribution to Phase A (Accident data and statistics) of EEVC Working Group 14. C.C. Schoon. R-94-25. SWOV, Leidschendam, 1994. 34 blz.

Cost-benefit study concerning car front impact requirements to increase the crash-safety of pedestrians and cyclists; Final report. L.T.B. van Kampen. R-94-31. SWOV, Leidschendam, 1994. 37 pp.

Control strategies for a highway network; A joint research project of SWOV, the Technical University Delft and the Institute for Perception TNO sponsored by the Dutch Ministry of Transport and Watermanagement. Part I,II and III. R-94-34 I+II+III. SWOV, Leidschendam, 1994. 75 + 63 + 57 pp.

Incident Warning Systems: Accident Review. SWOV-contribution to the HOPES Annual report 1994 concerning WP 31.2. Prepared for DRIVE II Project V2002 Horizontal Project for the Evaluation of Safety (HOPES). S. Oppe; J.E. Lindeijer & P. Barjonet (INRETS). R-94-50. SWOV, Leidschendam, 1994. 29 pp.

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Point processes in traffic safety analysis. F. Bijleveld. R-94-51. SWOV, Leidschendam, 1994. 62 pp.

Regranting of driving licence; A literature search. P.C. Noordzij. D-94-3. SWOV, Leidschendam, 1994. 30 pp.

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