

Mass Evacuations

A select bibliography of recent publications

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Reports – [EFO Papers](#) – [Articles](#)

Mass Evacuations : Reports

Title	Pages	Publication Date	URL
Catastrophic hurricane evacuation plan evaluation: a report to Congress	189 p.	June 1, 2006	URLs are tested and verified at time of data entry. www.fhwa.dot.gov/reports/hurricaneevacuation/rtc_chep_eval.pdf (6.5mb)
Collection and analysis of human behaviour data appearing in the mass media relating to the evacuation of the World Trade Center Towers of 11 September 2001	114 p.	December 2004	URLs are tested and verified at time of data entry. fseg.gre.ac.uk/fire/odpm_fire_033353.pdf (1.9mb)
Collective behavior in the September 11, 2001 evacuation of the World Trade Center	21 p.	2001	URLs are tested and verified at time of data entry. www.udel.edu/DRC/Preliminary_Papers/PP313-Collective%20Behavior.pdf (8.6mb)
A critical review of emergency evacuation simulation models	53 p.	2004	URLs are tested and verified at time of data entry. www.udel.edu/DRC/Preliminary_Papers/PP339-A%20Critical%20Review.pdf (211.7kb)
Disaster preparedness: preliminary observations on the evacuation of hospitals and nursing homes due to hurricanes	24 p.	February 16, 2006	URLs are tested and verified at time of data entry. www.gao.gov/new.items/d06443r.pdf (221.4kb)
Dynamic travel demand for emergency evacuation: the case of bushfires	17 p.	July 2004	URLs are tested and verified at time of data entry. www.itls.usyd.edu.au/publications/working_papers/wp2004/its_wp_04-16.pdf (227.7kb)
Elderly populations in disasters: recounting evacuation processes from two skilled-care facilities in Central Florida, August 2004	10 p.	2004	URLs are tested and verified at time of data entry. www.colorado.edu/hazards/gr/q172/q172.pdf (120.8kb)
Emergency evacuation of people with physical disabilities from buildings: 2004 conference proceedings	72 p.	October 2005	URLs are tested and verified at time of data entry. www.icdr.us/documents/pwd-emergency-evac.pdf (745.9kb)
Emergency evacuation report card 2006	34 p.	2006	URLs are tested and verified at time of data entry. www.highways.org/pdfs/evacuation_report_card2006.pdf (723.9kb)

Evacuation behavior in response to the Graniteville, South Carolina, chlorine spill	50 p.	2005	URLs are tested and verified at time of data entry. www.colorado.edu/hazards/qr/q178/q178.pdf (892.1kb)
Framework for modeling emergency evacuation	47 p.	April 2005	URLs are tested and verified at time of data entry. www.dot.state.fl.us/research-center/Completed_Proj/Summary_TE/FDOT_BD548_05_rpt.pdf (979.7)
Hurricane Floyd evacuation	7 p.	1999	URLs are tested and verified at time of data entry. www.fiu.edu/orgs/jpor/floyd evac/index.html (17.1kb)
Hurricane Isabel assessment: review of hurricane evacuation study products and other aspects of the National Hurricane Mitigation and Preparedness Program (NHMPP) in the context of the Hurricane Isabel response	301 p.	March 2005	URLs are tested and verified at time of data entry. www3.csc.noaa.gov/hes_docs/postStorm/Isabel_PostStorm_Summary.pdf (9.1mb)
Hurricane threat and evacuation intentions: an analysis of risk perception, preparedness, social influences, and resources	39 p.	1998	URLs are tested and verified at time of data entry. www.udel.edu/DRC/preliminary/271.pdf (95.4kb)
Identification and analysis of factors affecting emergency evacuation - main report	65 p.	January 2005	URLs are tested and verified at time of data entry. www.nrc.gov/reading-rm/doc-collections/nuregs/contract/cr6864/v1/cr6864v1.pdf (1.7mb)
Leaving New Orleans: social stratification, networks, and hurricane evacuation	5 p.	September 26, 2005	URLs are tested and verified at time of data entry. understandingkatrina.ssrc.org/Fussell/pf/ (17.9kb)
Local population and estimated evacuation in risk areas of the Texas Gulf Coast	96 p.	October 2002	URLs are tested and verified at time of data entry. ftp.txdps.state.tx.us/dem/plans/e_pop_evac_study.pdf (663.1kb)
Modeling small area evacuation: can existing transportation infrastructure impede public safety?	22 p.	April 2002	URLs are tested and verified at time of data entry. www.ncgia.ucsb.edu/vital/research/pubs/200204-Evacuation.pdf (1.8mb)
Orientation manual for first responders on the evacuation of people with disabilities	34 p.	August 2002	www.usfa.dhs.gov/downloads/pdf/publications/FA-235-508.pdf (930KB)
Preliminary observations on the evacuation of vulnerable populations due to hurricanes and other disasters	17 p.	May 18, 2006	URLs are tested and verified at time of data entry. www.gao.gov/new.items/d06790t.pdf (194kb)
The psychology of evacuation and the design of policy	34 p.	1998	URLs are tested and verified at time of data entry. www.udel.edu/DRC/Preliminary_Papers/PP276-Psychology%20of%20Evacuation.pdf (13.1mb)
Public perceptions of high-rise building safety and emergency evacuation procedures - research project: final report	58 p.	July 2007	URLs are tested and verified at time of data entry. www.nfpa.org/assets/files/PDF/Research/NuStats_Final_HighRise.pdf (889.8kb)
Repeat response to hurricane evacuation orders	13 p.	1997	URLs are tested and verified at time of data entry. www.colorado.edu/hazards/qr/q101.html (33kb)
Status of implementation of GAO recommendations on evacuation of	28 p.	April 1, 2008	URLs are tested and verified at time of data entry. www.gao.gov/new.items/d08544r.pdf (756.5kb)

transportation-disadvantaged populations and patients and residents of health care facilities			
Task Force on Evacuation, Transportation and Logistics: final report to the Governor	16 p.	2006	URLs are tested and verified at time of data entry. www.governor.state.tx.us/divisions/press/files/EvacuationTaskForceReport.pdf (3.5mb)
Texas Gulf Coast residents' expectations and intentions regarding hurricane evacuation	28 p.	August 2001	URLs are tested and verified at time of data entry. ftp.txdps.state.tx.us/dem/hurr/hurr_coast_behavior.pdf (106.5kb)

Mass Evacuation – EFO Papers

Title	Author	Publication Date	URL
An analysis of evacuation registration programs for special needs individuals in Knox County	Simkins, Thomas E.	July 2006	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo39420.pdf (146.1 kb)
Creating a mass notification plan for the Saint John's Fire Department	Bohan, Jay	February 2008	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo41715.pdf (93.7 kb)
Defining high rise occupancy emergency and evacuation operations for a suburban fire department	Schultz, William R.	June 2007	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo40597.pdf (198.9 kb)
Developing a comprehensive evacuation and sheltering plan for special needs individuals within the City of Yuma during large scale emergencies	Norris, Matthew D.	March 2005	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo38126.pdf (1.8 mb)
Employee response to emergency evacuation	Potter, David M.	October 2004	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo37502.pdf (170.2 kb)
Establishment of emergency evacuation shelters	Gagnon, Michael J.	January 2007	Sections of this paper not on the Internet. www.usfa.dhs.gov/pdf/efop/efo40127.pdf (157.7 kb)
Evacuation and shelter instructions for residents of large apartment buildings	Garino, Damian John	January 2003	URLs are tested and verified at time of data entry. www.usfa.fema.gov/pdf/efop/tr_03dg.pdf (311.7kb)
Evacuation plans for high-rise buildings related to building fire codes	Fenwick, Clayton W.	March 2006	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo39033.pdf (182.9 kb)
Evaluating the effectiveness of evacuation to protect people in the city of Solana Beach	Abelman, Dismas B.	June 2007	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo40825.pdf (132 kb)
Evaluating the use of escape systems for the evacuation of high-rise structures	Johansmeyer, Michael J.	April 2006	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo39062.pdf (123.9 kb)
Evaluation of evacuation planning in wildland-urban interface environments	Collins, Sherrie L.	October 2004	URLs are tested and verified at time of data entry. www.usfa.dhs.gov/pdf/efop/efo37428.pdf (176.7 kb)
Response to fire alarm signals and	Silver,	August 2003	URLs are tested and verified at time of

evacuation compliance by occupants of alarm Christopher
protected properties: are fire alarm systems
adequate

data entry.
www.usfa.dhs.gov/pdf/efop/efo36393.pdf
(179 kb)

Mass Evacuations – Journal Articles

Title	Author	Journal Title	Description	Publication Date
Aiding evacuation	Floyd, Michael	FIRE PREVENTION - FIRE ENGINEERS JOURNAL	p. 43	May 2004
Alarm sounds for evacuation research	Page, Douglas	FIRE CHIEF	p. 24	August 2004
Approximating the evacuation of the World Trade Center north tower using computer simulation	Galea, Edwin R., Sharp, G., Lawrence, Peter J., and Holden, R.	JOURNAL OF FIRE PROTECTION ENGINEERING	p. 85-115	May 2008
Attributes of evacuation and their functional sensitivities	Livesey, G. E., Donegan, H. A., and Taylor, I. R.	FIRE AUSTRALIA	p. 13-19	February 2005
Building evacuation becoming a tall order	Wilshaw, Jack	FIRE AUSTRALIA	p. 44-47	Spring 2006
The collection and analysis of pre-evacuation times derived from evacuation trials and their application to evacuation modelling	Gwynne, Steven M. V., Galea, Edwin R., Parke, J., and Hickson, J.	FIRE TECHNOLOGY	p. 173-195	April 2003
Community resilience and volcano hazard: the eruption of Tungurahua and evacuation of the Faldas in Ecuador	Tobin, Graham A. and Whiteford, Linda M.	DISASTERS	p. 28-48	March 2002
Community response to flood warnings: the case of an evacuation from Grafton, March 2001	Pfister, Neil	AUSTRALIAN JOURNAL OF EMERGENCY MANAGEMENT	p. 19-29	August 2002
Comparison of alternative trip generation models for hurricane evacuation	Wilmot, Chester G. and Mei, Bing	NATURAL HAZARDS REVIEW	p. 170-178	November 2004
Critical behavioral assumptions in evacuation time estimate analysis for private vehicles: examples from hurricane research and planning	Lindell, Michael K. and Prater, Carla S.	JOURNAL OF URBAN PLANNING AND DEVELOPMENT	12 p. (18-29)	March 2007
Decisionmaking in hospital earthquake evacuation: does distance from the epicenter matter?	Schultz, Carl H., Koenig, Kristi L., and Lewis, Roger J.	ANNALS OF EMERGENCY MEDICINE	p. 320-326	September 2007
The effect of evacuation on the number of victims following hazardous chemical release	Preston, Robert J., Marcozzi, David, Lima, Raquel, Pietrobon, Ricardo, Braga, Larissa, and Jacobs, Danny	PREHOSPITAL EMERGENCY CARE	p. 18-23	January-March 2008
The effect of pre-movement time and occupant density on evacuation time	Guanquan, Chu and Jinhua, Sun	JOURNAL OF FIRE SCIENCES	p. 237-259	May 2006
Emergency evacuation - sounding out your options	Choppen, Bob	INDUSTRIAL FIRE JOURNAL	p. 57-58	March 2004

Emergency evacuation of the Dresden Heart Centre in the flood disaster in Germany 2002: perceptions of patients and psychosocial burdens	Nitschke, Michael, Einsle, Franziska, Lippmann, Christiane, Simonis, Gregor, Köllner, Volker, and Strasser, Ruth H.	INTERNATIONAL JOURNAL OF DISASTER MEDICINE	p. 118-124	2006
Emergency evacuation of the elderly and disabled	Cahalan, Clare and Renne, John	INTRANSITION	10 p. (7-12+)	Spring 2007
Emergency evacuation sound systems for 'wayfinding'	Fennah, John	INTERNATIONAL FIRE PROTECTION	p. 28-29	May 2005
Emerging hurricane evacuation issues: Hurricane Floyd and South Carolina	Cutter, Susan L. and Dow, Kirstin	NATURAL HAZARDS REVIEW	p. 12-18	February 2002
Engineering for evacuation	Jensen, Geir	INDUSTRIAL FIRE JOURNAL	p. 15-16+	March 2002
Enhanced emergency high-rise evacuation	Heller, Jeffrey	BUILDING STANDARDS	p. 15-17	July-August 2002
Escape chute for aiding high rise evacuation	Ng, John	INTERNATIONAL FIRE PROTECTION	p. 54-57	February 2005
Evacuation decision making and behavioral responses: individual and household	Dash, Nicole and Gladwin, Hugh	NATURAL HAZARDS REVIEW	p. 69-77	August 2007
Evacuation of highrise buildings and its evaluation method	Li, Yunjiang and Ye, Juan	INTERNATIONAL JOURNAL ON ENGINEERING PERFORMANCE-BASED FIRE CODES	p. 50-53	Autumn 2003
The evacuation of lower Manhattan by water transport on September 11: an unplanned "success"	Kendra, James M., Wachtendorf, Tricia, and Quarantelli, Enrico L.	JOINT COMMISSION JOURNAL ON QUALITY AND SAFETY	3 p. (316-318)	June 2003
The evacuation of New Orleans after the levees broke	Dummett, Robert	FIRE ENGINEERING	p. 95-96+	May 2006
Evacuation priorities in mass casualty terror-related events: implications for contingency planning	Einav, Sharon, Feigenberg, Zvi, Weissman, Charles, Zaichik, Daniel, Caspi, Guy, Kotler, Doron, and Freund, Herbert R.	ANNALS OF SURGERY	7 p. (304-310)	March 2004
Evacuation: considerations for public safety	Jaffin, Bob	9-1-1 MAGAZINE	p. 28-29	November/December 2005
Factors associated with high-rise evacuation: qualitative results from the World Trade Center evacuation study	Gershon, Robyn R. M., Qureshi, Kristine A., Rubin, Marcie S., and Raveis, Victoria H.	PREHOSPITAL AND DISASTER MEDICINE	p. 165-173	May-June 2007
Have we learned the evacuation lessons? A commentary	Pauls, Jake L.	FIRE ENGINEERING	p. 113-116+	October 2002
Hazardous ammonia releases: public health consequences and risk factors for evacuation and injury, United States, 1993-1998	Weisskopf, Marc G., Drew, James M., Hanrahan, Lawrence P., Anderson, Henry A., and Haugh, Gilbert S.	JOURNAL OF OCCUPATIONAL AND ENVIRONMENTAL MEDICINE	p. 197-204	February 2003
Highrise firefighting & building evacuation	Mulcahey, William R.	FIRE & RESCUE	p. 25-29	January 2002
Household decision making and evacuation in response to hurricane Lili	Lindell, Michael K., Lu, Jing-Chein, and Prater, Carla S.	NATURAL HAZARDS REVIEW	p. 171-179	November 2005

Hurricane evacuation expectations and actual behavior in Hurricane Lili	Kang, Jung Eun, Lindell, Michael K., and Prater, Carla S.	JOURNAL OF APPLIED SOCIAL PSYCHOLOGY	17 p. (887-903)	2007
Improving shadow evacuation management: case study of the Graniteville, South Carolina, chlorine spill	Mitchell, Jerry T., Cutter, Susan L., and Edmonds, Andrew S.	JOURNAL OF EMERGENCY MANAGEMENT	p. 28-34	January/February 2007
Incrementalism before the storm: network performance for the evacuation of New Orleans	Kiefer, John J. and Montjoy, Robert S.	PUBLIC ADMINISTRATION REVIEW	p. 122-130	December 2006
Mass medical evacuation: Hurricane Katrina and nursing experiences at the New Orleans Airport	Klein, Kelly R. and Nagel, Nanci E.	DISASTER MANAGEMENT & RESPONSE	p. 56-61	April-June 2007
Occupant behavior and evacuation during the Chicago Cook County Administration Building fire	Proulx, Guyléne and Reid, Irene M. A.	JOURNAL OF FIRE PROTECTION ENGINEERING	p. 283-309	November 2006
The paradox of social capital as a liability in disaster management: understanding the evacuation failure of Hurricane Katrina	Cordasco, Kristina M.	NATURAL HAZARDS OBSERVER	p. 5-6	January 2006
Planning for the evacuation of New Orleans	Wolshon, Brian	ITE JOURNAL	6 p. (44-49)	February 2002
Predicting emergency evacuation and sheltering behavior: a structured analytical approach	Dombroski, Matthew J., Fischhoff, Baruch, and Fischbeck, Paul S.	RISK ANALYSIS	p. 1675-1688	December 2006
Risk area accuracy and evacuation from Hurricane Bret	Zhang, Yang, Prater, Carla S., and Lindell, Michael K.	NATURAL HAZARDS REVIEW	p. 115-120	August 2004
Spreading the word: voice evacuation system reaches the masses	Graf, Kendra	INDUSTRIAL FIRE WORLD	p. 26-27	July/August 2007
Understanding mass panic and other collective responses to threat and disaster	Mawson, Anthony R.	PSYCHIATRY	19 p. (95-113)	Summer 2005
The World Trade Center evacuation: an analysis of human behavior during evacuation	Galea, Edwin R.	FIRE PROTECTION ENGINEERING	p. 22-29	Fall 2005