Safety Database Report 2013

Significant Accidents 2012 Public Report





Department of fundamental values

Safety Unit

September 2013



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Foreword

The safety Database results for the year 2012 are in line with many of the trends observed during the last decade. Compared with 2006, the number of accidents, as well as fatalities and serious injuries decreased by 20%.

Nevertheless, not all indicators have decrease so obviously and vary from one year to another. In 2011, for instance, we noticed a sharp decrease in serious passenger injuries and an increase in serious staff injuries. In 2012, the oppositie was true.

Hence, we should remain very cautious when analysing accident statistics and never forget that trends might be inversed after a single accident, such as the one that unfortunately occurred last July.

Safety at stations is an important field of improvement and some infrastructure managers obtained very good results with some simple safety measures towards people on the platform or crossing the tracks in an unauthorised manner.

Therefore, this report focuses on accidents at station, mostly individuals hit by a train or falling from a train. We do hope you will find this analysis useful; it can be found in part 2 of the report.

The data quality within the database was strongly enhanced this year, through a general revision of previous years' data and the elaboration of a simplified causal tree.

We also invite you to consult the online database. There you find, not only statistical data, but also detailed info on

2012 figures compared to the average annual f on the 2006-2011 period	igures
SIGNIFICANT ACCIDENTS	-14%
Collisions with obstacles	-2%
Collisions between trains	9%
Derailments	15%
Individuals hit by a train	-19%
Individuals falling from a train	-14%
Accidents at level crossings	-7%
FATALITIES	-18%
LC fatalities	-7%
Passenger fatalities	8%
Staff fatalities	21%
SERIOUS INJURIES	-13%
Serious passenger injuries	15%
Serious staff injuries	-39%

single events. All criteria should be considered together to obtain the most accurate picture of railway safety in Europe, observe specific trends and check best practices. This database was created by us for our internal use. Our safety strategy is fundamental and no way to enhance it should be neglected.

Peter Kleinschuster

Chairman of the Safety Platform





Part 1

General safety indicators

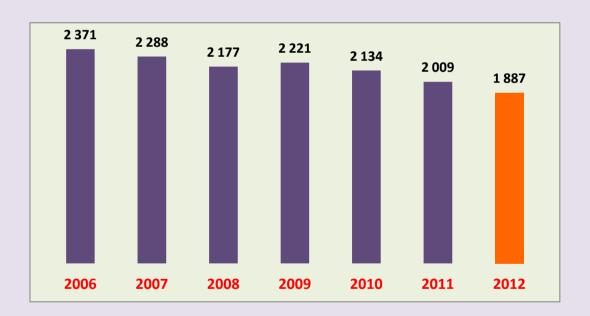
Part 1 - General Report on Significant Accidents

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1.1 Summary of accidents and their human consequences

Years	Significant accidents	per 100 significant accidents			Significant accidents per million	Fatalities per million	
		Passengers	Staff	3rd parties	accidents	train-km	train-km
2012	1 887	1,7	2,3	49,5	102,4	0,46	0,25
2011	2 009	1,6	1,4	51,5	98,9	0,49	0,27
2010	2 134	1,9	1,8	50,5	107,5	0,53	0,29
2009	2 221	1,2	1,1	58,4	103,6	0,56	0,34
2008	2 177	1,4	2,0	51,4	103,9	0,53	0,29
2007	2 288	1,0	1,8	56,7	109,6	0,56	0,34
2006	2 371	1,0	1,7	51,5	102,4	0,59	0,32



- ➤ 6% decrease in significant accidents declared for the year 2012.
- ➤ Lowest rate of accidents and fatalities per train runs on the 7-year period.

1.2 Types of accidents according to UIC-SDB and EU definitions

2012		es of accidents as defined n UIC – SDB	Additional information from UIC -SDB		Types of accidents as defined in Safety Directive		
Collective	6,6%	6,6% Derailment of trains		6,6%	Derailment of trains		
accidents	1,9%	Train co	llision wi	th another train	7.70/	Collisions including collisions with obstacles	
32,9%	24,5%	Train collision	5,9%	Train collision with an obstacle not at LC	7,7%	within the clearance gauge	
32,9%	24,5%	with an obstacle	18,6%	Train collision with an obstacle at LC	27,0%	LC accidents, including accidents involving	
Individual	Individual 50.40/		8,4%	Individual hit by a train at LC	27,076	pedestrians at LC	
accidents	59,4%	by a train	51,0%	Individual hit by a train not at LC	58,2%	Accidents to persons caused by rolling stock in	
66,6%	7,2%	Individ	dual fallir	ng from a train	38,2%	motion, with the exception of suicides.	
Other types of	0,1%	Fire in rolling stock		0,1%	Fire in rolling stock		
accidents	0,4%	Electrocution	by over	head line or third rail	0.40/	Other tunes of posidents	
0,5%	0,0%	Accident i	nvolving	dangerous goods	0,4%	Other types of accidents	

- ➤ Almost 60% of accidents involved individuals hit by a train.
- > Collision with an obstacle was the second most common accident (one fourth of all accidents).
- ➤ Accidents at level crossings accounted for 27% of all significant accidents.
- ➤ No accident involved dangerous goods during the year 2012.
- Accidents at level crossings are divided in the UIC database between collisions with an obstacle at LC and individuals hit by a train at LC.

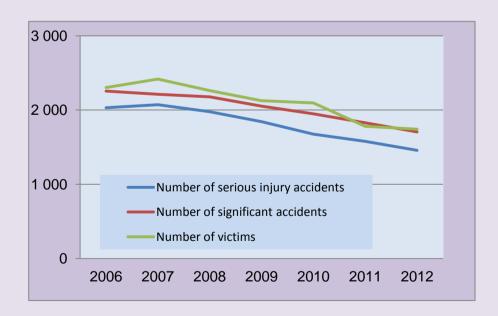
1.3 Main causes of accidents in the year 2012

2012	Causes at first level	Causes at second level			
		Trespassing	45,8%		
	THIRD PARTIES	Vehicle (LC accident)	18,2%		
EXTERNAL CAUSES		Pedestrian (LC accident)	8,3%		
	76,4%	Pedestrian on public railway area	2,1%		
	70,470	Other or not specified	2,0%		
79,0%	WEATHER & ENVIRONMENT	Environment	1,5%		
	2,5%	Weather	1,1%		
	INFRASTRUCTURES	Tracks and structures	1,7%		
		Energy system	0,3%		
	2,3%	Other or not specified	0,2%		
	ROLLING STOCK	Running gear	1,5%		
INTERNAL CAUSES	3,3%	Other or not specified	1,8%		
CAUSES	HUMAN FACTORS	Track and switch maintenance staff	2,9%		
	(Railway staff & subcontractors)	Traffic operating and signalling staff	1,1%		
	,	Train drivers	2,0%		
	7,8%	Other or not specified	1,9%		
20,5%	RAILWAY USERS	Passengers	6,7%		
20,370	7,0%	Other or not specified	0,3%		
CAUSES NOT IDE	CAUSES NOT IDENTIFIED 0,5%				

- > Almost 80% of accidents had external causes.
- ➤ The number of accidents with no identified causes was half what it was in 2011.
- > Internal causes relate to both the infrastructure manager and railway undertakings.

1.4 Trend of accidents and rates on the last seven years (19 railways)

ALL RAILWAYS except MAV and HZ	2006	2007	2008	2009	2010	2011	2012
Number of serious injury accidents	2 031	2 071	1 976	1 843	1 675	1 579	1 458
Serious injury accidents per million train-km	0,52	0,52	0,50	0,48	0,43	0,40	0,37
Number of fatalities	1 230	1 320	1 194	1 253	1 050	987	936
Fatalities per million train-km	0,32	0,33	0,30	0,33	0,27	0,25	0,23
Number of significant accidents	2 256	2 212	2 177	2 052	1 949	1 829	1 706
Significant accidents per million train-km	0,58	0,56	0,55	0,53	0,50	0,46	0,43
Number of victims	2 302	2 418	2 262	2 125	2 096	1 781	1 741
Victims per million train-km	0,59	0,61	0,57	0,55	0,54	0,45	0,44
Number of million train- kilometres	3 890	3 948	3 976	3 855	3 910	3 980	3 988



[➤] This table allows a comparison on a constant perimeter, based on the 19 railways that have provided UIC with data every year since 2006.

1.5 Number of accidents and victims per type of accident

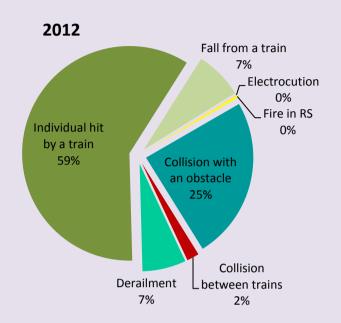
			F	ATALITIES	S	SERI	OUS INJU	RIES	
	2012	Number of accidents	Passengers	Staff	3rd parties	Passengers	Staff	3rd parties	ALL VICTIMS
	Collisions with an obstacle (not at LC)	30	-	2	3	-	5	3	13
	Collisions between trains	16	-	1	-	6	5	-	12
ion	LC accidents	75	-	-	40	-	1	43	84
At station	Derailments	61	-	1	-	-	-	-	1
₹	Hit by a train (not at LC)	354	-	13	181	-	15	148	357
	Falling from a train	110	11	1	1	90	3	6	112
	Other cases	3	-	-	1	-	-	-	1
	Total at station	649	11	18	226	96	29	200	580
	Collisions with an obstacle (not at LC)	79	1	1	7	4	4	12	29
	Collisions between trains	15	12	8	2	80	13	1	116
a	LC accidents	405	-	1	267	3	1	246	518
In open line	Derailments	44	-	-	-	2	5	-	7
ln op	Hit by a train (not at LC)	600	-	15	409	-	5	186	615
	Falling from a train	25	8	-	2	13	-	3	26
	Other cases	6	-	-	-	-	-	1	1
	Total in open line	1174	21	25	687	102	28	449	1312
	not specified	64	-	1	22	-	7	10	40
GRAN	D TOTAL	1887	32	44	935	198	64	659	1932

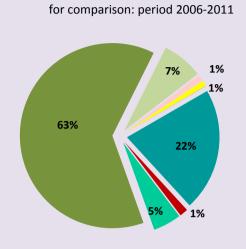
^{➤ 62%} of accidents occured on open line, whilst 34% happened in stations.

> 72% of fatalities occured on open line (25% in stations).

> Persons hit by a train and LC accidents represented 94% of fatalities on open line (92% in stations).

1.6 Accidents per type





	Victims per accident	Fatalities per accident	Serious injuries per accident
Passengers	0,12	0,02	0,10
Staff	0,06	0,02	0,03
Third parties	0,84	0,50	0,35
Total	1,02	0,54	0,49

- > Collisions with an obstacle include collisions at LC.
- ➤ Individual hit by a train include pedestrians at LC.
- > For LC accidents, refer to table 1.11.

Type of accident - year 2012
Collision with an obstacle
Collision between trains
Derailment
Individual hit by a train
Fall from a train
Electrocution
Fire in RS
Dangerous goods accidents (no release)
Dangerous goods accidents (with release)
Total

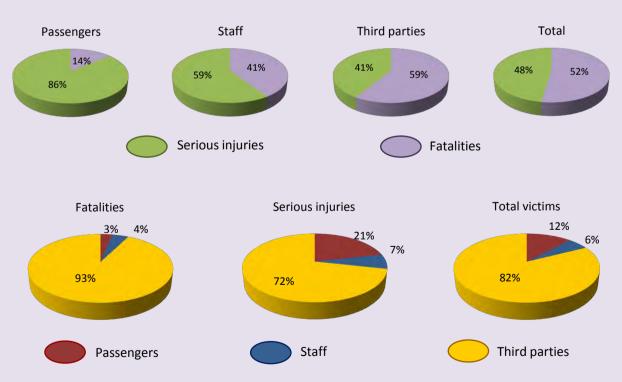
Accide	Accidents				
Number	%	Fatalities			
462	24,5%	221			
35	1,9%	23			
124	6,6%	1			
1121	59,4%	742			
136	7,2%	23			
2	0,1%	1			
7	0,4%	-			
-	0,0%	-			
-	0,0%	-			
1 887		1 011			

Fatalities	Serious injuries
221	290
23	106
1	8
742	400
23	116
1	1
-	-
-	-
-	-
1 011	921

1.7 Fatalities and serious injuries per type of accident

2012	Fatalities			Serious injuries		
Type of accident	Passen- gers	Staff	Third parties	Passen- gers	Staff	Third parties
Collision with an obstacle	1	4	216	7	12	271
Collision between trains	12	9	2	86	19	1
Derailment	-	1	-	2	6	-
Individual hit by a train	-	29	713	-	23	377
Fall from a train	19	1	3	103	4	9
Electrocution	-	-	1	-	-	1
Fire in rolling stock	-	-	-	-	-	-
Dangerous goods accidents (no release)	-	-	-	-	-	-
Dangerous goods accidents (with release)	-	-	-	-	-	-
Total	32	44	935	198	64	659

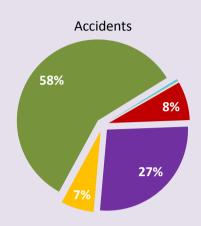
1.8 Distribution of victims



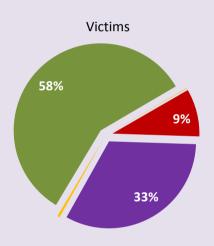
Reading method: fatalities account for 14% of passenger victims and passengers represent 3% of fatalities

- > Third parties represented 93% of all fatalities and 72% of serious injuries.
- ➤ Passengers accounted for 21% of serious injuries, but 3% of fatalities.

1.9 Victims per type of accident according to Safety Directive definitions



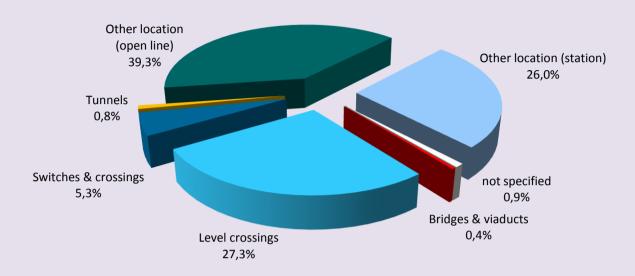




Breakdown of human consequences							
	Fatal.	Injur.	All				
Passengers	2%	10%	12%				
Staff	2%	3%	6%				
Third parties	48%	34%	83%				
All categories	52%	48%	100%				

	rents			Fatalities		Sei	ious inju	ries
Type of accident	Number of events	%	Passengers	Staff	3rd parties	Passengers	Staff	3rd parties
Collisions (not at LC)	146	8%	13	12	12	90	28	16
Level crossings	509	27%	-	1	325	3	3	298
Derailment	124	7%	-	1	-	2	6	-
Individuals & RS in motion (not at LC)	1 099	58%	19	30	597	103	27	344
Fire	7	0%	-	-	-	-	-	-
Other types	2	0%	-	-	1	1	-	1
Total	1 887		32	44	935	198	64	659

1.10 Accidents per location details

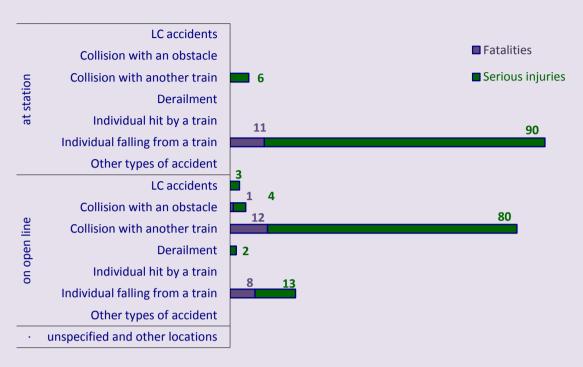


1.11 Accidents at level crossings

	Accidents	Number of fatalities		% of all	% of all	LC accidents	LC fatalities	
	at LC	Passen- gers	Staff	Third parties	accidents	fatalities	per million train-km	per million train-km
2012	509	-	1	325	27%	32%	0,12	0,08
2011	447	6	1	277	22%	26%	0,11	0,07
2010	495	1	3	315	23%	28%	0,12	0,08
2009	493	2	1	374	22%	28%	0,12	0,10
2008	539	-	3	325	25%	27%	0,13	0,08
2007	634	2	1	428	28%	32%	0,16	0,11
2006	664	1	2	350	28%	27%	0,17	0,09

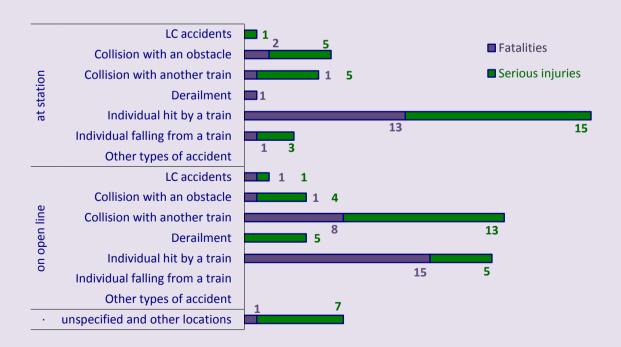
- > Accidents at LC decreased 23% compared with 2006 but increased 14% compared with 2011.
- Fatalities at LC decreased 8% compared with 2006 but increased 15% compared with 2011.

1.12 Passenger victims per type of accident and location



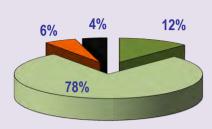
- Individual falling from a train is the main risk in stations (94% of victims).
- > Collision between trains is the main risk on open lines (75% of victims).

1.13 Staff victims per type of accident and location



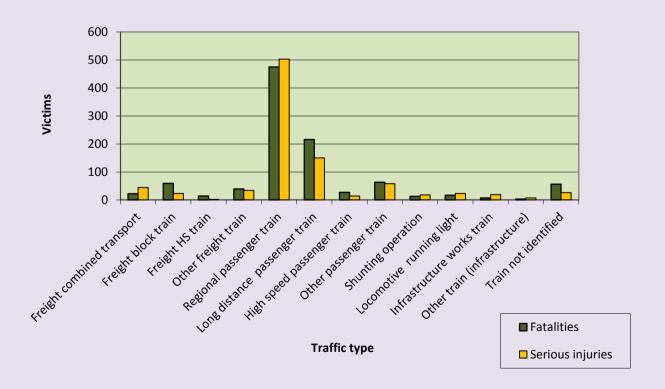
- Individual hit by a train is the main risk in stations (76% of victims).
- > Collision between trains and staff hit by a train show equivalent risk on open line.

1.14 Victims per type of traffic



- ■Freight trains
- ■Passenger trains
- Locomotive running light, shunting, infrastructure works train and other infrastructure train
- Train not identifed

Type of accident	Freight trains	Passenger trains	Locomotive running light, shunting, infrastructure works train and other infrastructure train	Train not identifed
Collision	10	140	14	7
Derailment	-	7	2	-
Level-crossing accidents	78	509	35	8
Accidents to persons caused by rolling stock in motion	148	849	56	67
Other accidents	1	1	-	-
TOTAL victims	237	1506	107	82



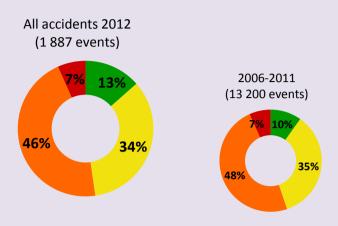
- > Passenger trains were involved in four out of five accidents.
- > Regional trains were largely more involved than long distance trains.

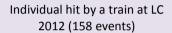
1.15 Accidents and victims per type of accident, causes and location

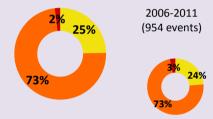
Type of						Loca	ition				Victim	S
accidents		Causes		Тур	e of loca	tion	Loc	cation det	ails		Fatal.	S. Inj.
Individual hit	INF RS	-		OL	707	724	LC SC	158 33	161 33	Р	-	-
by a train	HF RU	47 11	48 11	S	393	397	BV T	5 9	5 9	S	29	23
1121 1142	WE TP	- 1060	- 1080	Ot	21	21	0	916	934	Т	713	377
Train collision	INF RS	9 12	7 4	OL	377	438	LC SC	351 6	469 3	Р	1	7
with an obstacle	HF RU	32 2	18 4	S	66	57	BV T	1 2	-	S	4	12
462 511	WE TP	40 366	1 473	Ot	19	16	0	102	39	Т	216	271
Individual falling	INF RS	-	-	OL	25	26	LC SC	1 -	1 -	Р	19	103
from a train	HF RU	5 119	5 122	S	110	112	BV T	- 1	1	S	1	4
136 139	WE TP	- 11	- 11	Ot	1	1	0	134	137	Т	3	9
Train collision with another	INF RS	- 2		OL	15	116	LC SC	4 8	3 19	Р	12	86
train	HF RU	29 -	126	S	16	12	BV T	1 1	-	S	9	19
35 129	WE TP	- 4	3	Ot	4	1	0	21	107	Т	2	1
Derailment	INF RS	34 42	1	OL	44	7	LC SC	2 53	1	Р	-	2
Deraiiment	HF RU	35 -	7	S	61	1	BV T	- 3	- 5	S	1	6
124 9	WE TP	8 -	1	Ot	19	1	0	66	3	Т	-	-
Flooting surtices	INF RS		-	OL	1	1	LC SC	-	-	Р	-	-
Electrocution	HF RU	- 1	1	S	1	1	BV T	-	-	S	-	-
2 2	WE TP	- 1	- 1	Ot	-	-	0	2	2	Т	1	1

Type of					ation			Victims				
accidents		Causes		Тур	e of loca	tion	Location details			Fatal.	S. Inj.	
	INF	-	-	OL	5		LC	-	-	Р		
Fires	RS	7	-		3	_	SC	-	-		_	_
11103	HF	-	-	S	2	_	BV	-	-	S	_	
	RU	-	-		_		Т	-	-			
7	WE	-	-	Ot	_	_	0	7	-	Т	_	_
-	TP	-	-	<u></u> Οί								
A a si al a sa tribuna lucius a	INF	-	-	OL	_	_	LC	-	-	Р	_	_
Accident involving dangerous goods	RS	-	-				SC	-	-			
without release	HF	-	-	S	_	_	BV	-	-	S	_	_
	RU	-	-				Т	-	-			
-	WE	-	-	Ot	_	_	0	-	-	Т	_	_
-	TP	-	-	<u> </u>								
Accident involving	INF	-	-	OL	_	_	LC	-	-	Р	_	_
dangerous goods	RS	-	-				SC	-	-			
with release	HF	-	-	S	_	_	BV	-	-	S	_	_
	RU	-	-				Т	-	-			
-	WE	-	-	Ot	_	_	0	-	-	Т	_	_
-	TP	-	-									
	1											
TOTAL	INF	43	7	OL	1174	1312	LC	516	634	Р	32	198
	RS	63	5				SC	100	56			
	HF	148	204	S	649	580	BV	7	5	S	44	64
	RU	133	138				T	16	15			
1887	WE	48	2	Ot	64	40	0	1248	1222	T	935	659
1932	TP	1442	1568								1011	024
											1011	921
number of	INF: Infr	astructure	es	OL: Ope	n line		LC: Leve	el crossing	s	P: pass	sengers	
accidents	RS: Rolli	ng stock		S: At sta	tion		SC: Swi	tches & Cr	ossings	S: Staf	f	
	HF: Hum	nan Factor	S	Ot: Othe	er location	ıs	BV: Brid	dges & Via	ducts	T: Thir	d parties	
	RU: Rail	way users					T: Tunn	els				
number of	WE: We	ather-Env	ironment	t			O: Othe	er or unide	ntified			
victims	TP: Third	d Parties										

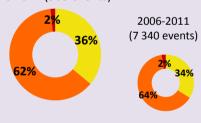
1.16 Accidents per type and number of victims

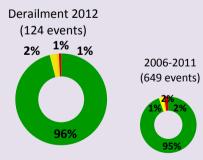






Individual hit by a train not at LC 2012 (963 events)





Fires in RS: 7 accidents (all without victims)

Electrocutions: - 1 event with a serious injury

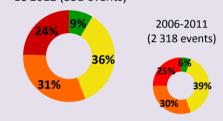
- 1 event with 1 fatality

Dangerous goods: no accidents

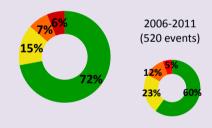


* a victim is a fatality or a serious injury

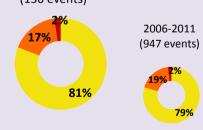
Collision with an obstacle at LC 2012 (351 events)



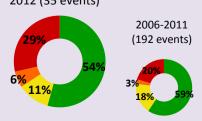
Collision with an obstacle not at LC 2012 (111 events)

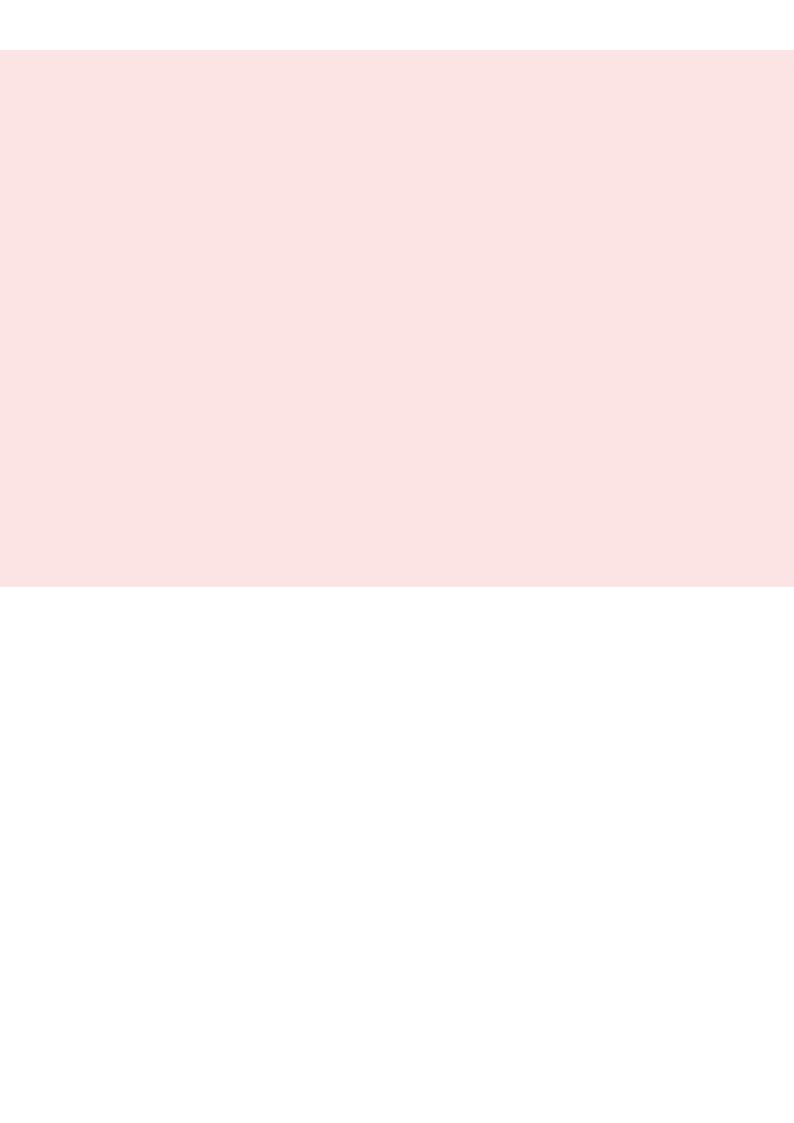


Fall from a train 2012 (136 events)



Collision between trains 2012 (35 events)







Part 2

Focus on accidents in stations

Part 2 - Focus on accidents in stations

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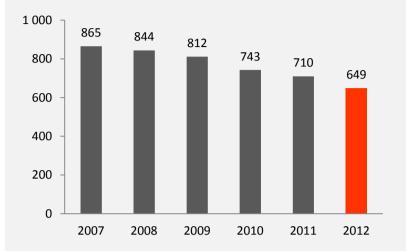
- 2.1 Accidents in stations since 2006
- 2.2 Accidents in stations per type of accident
- 2.3 Part of events occurring in stations per type of accident
- 2.4 Evolution of victims in stations per type of accident since 2007
- 2.5 Victims of accidents in stations per type of victim since 2007
- 2.6 Victims of accidents in stations per type of accident
- 2.7 Fatalities in accidents in stations per type of accident
- 2.8 Serious injuries in accidents in stations per type of accident
- 2.9 Individuals hit by a train in stations: victims per category
- 2.10 Individuals hit by a train in stations: causes
- 2.11 Individuals falling from a train in stations: victims per category
- 2.12 Individuals falling from a train in stations: causes

Definition of station

Point where tracks in addition to the running trains, are generally used for boarding (disembarking) passengers and/or for loading (unloading) goods. The stations are generally defined as a part of the infrastructure (tracks, switches, fixed installation, platform etc..) located between entry signals in each direction.

Accidents at stops are included in the category "accidents in station"

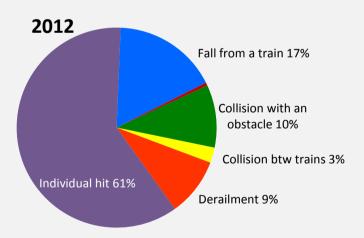
2.1 Accidents in stations since 2007



In % of all significant accidents					
2007	38%				
2008	39%				
2009	37%				
2010	35%				
2011	35%				
2012	34%				

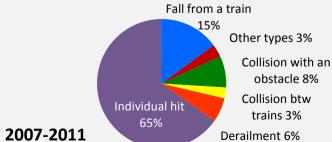
- > Accidents in stations represent 34% of all declared significant accidents for the year 2012.
- > Accidents in stations have decreased more rapidly (-25% since 2007) than accidents on open line (-13%).

2.2 Accidents in stations per type of accident

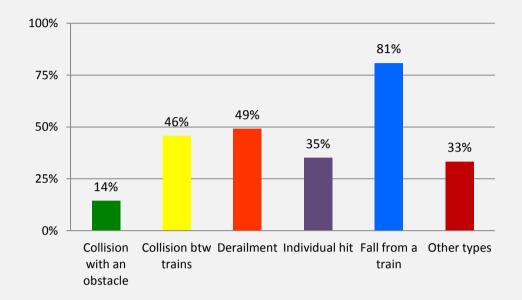


Most accidents in stations were individuals hit by a train, followed by individuals falling from a train.

The other types of accidents (fires and electrocutions) accounted for less than 0.5% (3 events only) in 2012.

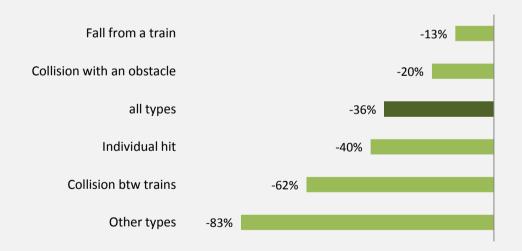


2.3 Proportion of events occurring in stations per type of accident



81% of falls from a train occurred in stations. Considering the other types of accidents, fewer events occur in stations than on open line. In particular, only 14% of collisions with an obstacle occurred in stations.

2.4 Evolution of victims in stations per type of accident since 2007



The number of victims globally decreased one third.

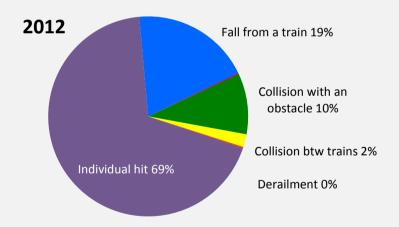
Derailments are included in "other types". Only one derailment caused victims in 2012.

2.5 Victims of accidents in stations per type of victim since 2007



- ➤ Fatalities in stations decreased 40% since 2007.
- Serious injuries in stations decreased 31% since the maximum observed in 2008.

2.6 Victims of accidents in stations per type of accident

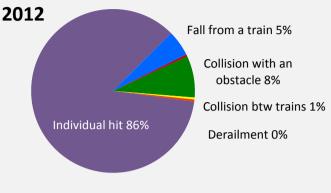


The representation of victims per type of accident is very similar to the representation of accidents (graph 2.2). The most important difference relates to derailments, with 9 % of accidents and less than 0.5 % of victims. Hence a severity rate (average number of victims per accident) far lower than other types of accident.

		 om a train 15%
		Other types 2%
	Individual	Collision with an obstacle 9%
2007-2011	hit 70%	Derailment 2%

	Severity rate 2012
Individual hit	1,01
Fall from a train	1,02
Collision with obstacle	0,86
Collision btw trains	0,75
Derailment	0,02

2.7 Fatalities in accidents in stations per type of accident

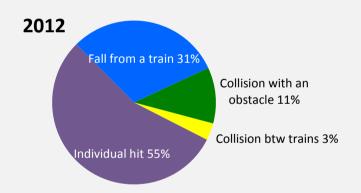


Individuals hit by a train represented 8% of fatalities in stationss in 2012 when they only represent 61% of accidents. Hence a far higher fatality rate (average number of fatalities per accident).

	Fall from a train 5%
	Other types 2%
4	Collision with an obstacle 8%
2007-2011	Derailment 2%

	Fatality rate 2012
Individual hit	0,55
Fall from a train	0,12
Collision with obstacle	0,32
Collision btw trains	0,06
Derailment	0,02

2.8 Serious injuries in accidents in stations per type of accident

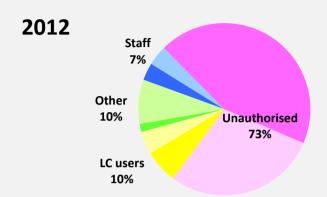


"Individuals falling from a train" accounted for 31% of serious injuries in 2012. This type of accident causes 8 times more injuries than fatalities. Conversely, "individuals hit by a train" generate more fatalities than injuries.

	Fall from a train	24%
		Other types 2%
		Collision with an obstacle 10%
	Individual hit 58°	Collision btw trains 4%
2007-2011	D	erailment 2%

	Injury rate 2012
Individual hit	0,46
Fall from a train	0,90
Collision with obstacle	0,55
Collision btw trains	0,69
Derailment	0,00

2.9 Individuals hit by a train in stations: victims per category



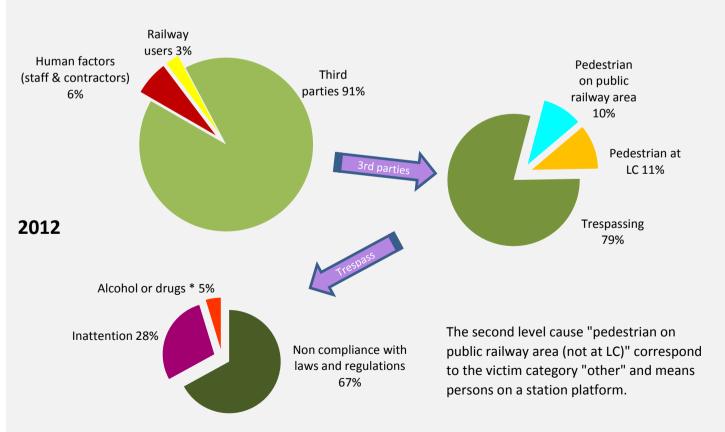
A large majority of victims were unauthorised persons, mostly people crossing tracks in a forbidden way.

"Other" victims accounted for 10% of the victims. This mainly concerned persons on a platform being struck by an incoming train.

light colours: serious injuries

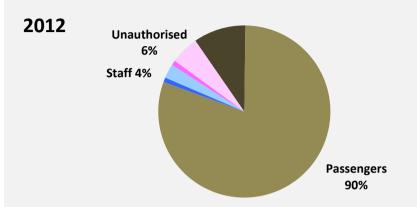
dark colours: fatalities

2.10 Individuals hit by a train in stations: causes



^{*} This percentage only represents the use of alcohol or drugs with police evidence. The real percentage is far higher.

2.11 Individuals falling from a train in stations: victims per category

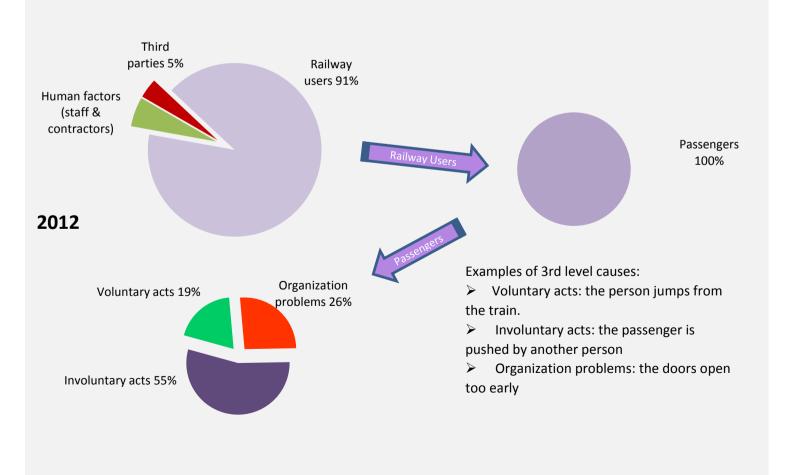


90% of individuals falling from a train are passengers. Only persons inside a train in motion or trying to embark / disembark are considered as passengers.

light colours: serious injuries

dark colours: fatalities

2.12 Individuals falling from a train in stations: causes



Accident definitions currently in force in Europe

"Significant accident" means any accident involving at least one rail vehicle in motion, resulting in at least one killed or seriously injured person, or in significant damage to stock, track, other installations or environment, or extensive disruptions to traffic. Accidents in workshops, warehouses and depots are excluded. Notes from the Safety Directive specify the following factors: significant damage over €150K and extensive disruptions to traffic with tracks blocked for more than 6 hours. Commission Regulation (EC) N° 1192/2003

"Serious injury accident" means any accident involving at least one rail vehicle in motion, resulting in at least one killed or seriously injured person. Accidents in workshops, warehouses and depots are excluded. (Where "person killed" means any person killed immediately or dying within 30 days as a result of an accident, excluding suicides; and "person seriously injured" means any person injured who was hospitalised for more than 24 hours as a result of an accident, excluding attempted suicides). Commission Regulation (EC) N° 1192/2003

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UIC Safety Database

Report 2013

Significant Accidents 2012

Contact

Olivier Georger

UIC Safety Unit
International Union of Railways
16 rue Jean Rey - F-75015 Paris
georger@uic.org
www.uic.org

The electronic version of the report is available on the UIC website at the following address:

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Contact

Olivier Georger

UIC Safety Unit International Union of Railways 16 rue Jean Rey - F-75015 Paris georger@uic.org - www.uic.org



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