

Reports 2004 – 2009

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Competitions Statistics 2004 - 2009

Competitions per Competition Level									
Year	Total number	1*		2*		3*		4*	
		number	%	number	%	number	%	number	%
2004	318	129	40,6%	122	38,4%	62	19,5%	5	1,6%
2005	369	168	45,5%	136	36,9%	60	16,3%	5	1,4%
2006	404	171	42,3%	150	37,1%	77	19,1%	6	1,5%
2007	408	164	40,2%	148	36,3%	91	22,3%	5	1,2%
2008	428	185	43,2%	160	37,4%	76	17,8%	7	1,6%
2009	433	190	43,9%	155	35,8%	82	18,9%	6	1,4%

- Total number of competitions increased in 6 years 36% from 318 to 433.
- Distribution of competitions per star level remained basically unchanged with an average of 42.7% for one star, 36.9% for two star, 19.0% for three star and only 1,4% for four star. Approximately 80% of the competitions are held at 1 and 2 star level.

Competitions per Competition Format					
Year	Total number	CICs		CCIs	
		number	%	number	%
2004	318	220	69,2%	98	30,8%
2005	369	245	66,4%	124	33,6%
2006	404	239	59,2%	165	40,8%
2007	408	240	58,8%	168	41,2%
2008	428	266	62,1%	162	37,9%
2009	433	273	63,0%	160	37,0%

- Within the overall increased number of competitions the distribution between format shows an average of 62.8% CICs and 37.2% CCIs.

Starters Statistics 2004 - 2009

Starters per Competition Level									
Year	Total starters	1*		2*		3*		4*	
		starters	%	starters	%	starters	%	starters	%
2004	11.644	5.100	43,8%	4.301	36,9%	1.961	16,8%	282	2,4%
2005	12.542	6.170	49,2%	4.380	34,9%	1.765	14,1%	227	1,8%
2006	13.660	6.428	47,1%	4.807	35,2%	2.125	15,6%	300	2,2%
2007	13.661	6.563	48,0%	4.388	32,1%	2.464	18,0%	246	1,8%
2008	14.268	7.175	50,3%	4.660	32,7%	2.124	14,9%	309	2,2%
2009	14.206	6.951	48,9%	4.716	33,2%	2.238	15,8%	301	2,1%

- Total number of starters increased in 6 years 22,0% from 11.644 to 14.206. In 2009 for the first time the number of starters remains stable.
- Distribution of starters per star level remained basically unchanged with an average of 48.0% for one star, 34.1% for two star, 15.9% for three star and only 2.1% for four star. The starters at one star level represent nearly 50% of the total number of starters in FEI competitions.

Average starters per Competition Level							
Year	Starters	Compet.	All levels starters	1*	2*	3*	4*
				starters	starters	starters	starters
2004	11.644	318	37	40	35	32	56
2005	12.542	369	34	37	32	29	45
2006	13.660	404	34	38	32	28	50
2007	13.661	408	33	40	30	27	49
2008	14.268	428	33	39	29	28	44
2009	14.206	433	33	37	30	27	50

- Average number of starters remains quite stable for all levels with an average of 38 for one star, 31 for two star, 28 for three star and 49 for four star.

Starters per Competition Format					
Year	Total starters	CICs		CCIs	
		starters	%	starters	%
2004	11.644	8.087	69%	3.557	31%
2005	12.542	7.779	62%	4.763	38%
2006	13.660	7.807	57%	5.853	43%
2007	13.661	7.761	57%	5.900	43%
2008	14.268	8.445	59%	5.823	41%
2009	14.206	8.556	60%	5.650	40%

- Within the overall increased number of starters the distribution between format shows an increase in the percentage of starters in CCIs compared with CICs (from 31% to 40%). This increase could be related to specific qualification requirements (Championships, Games).

Average starters per Competition Format						
Year	CICs			CCIs		
	Starters	Compet.	Average	Starters	Compet.	Average
2004	8.087	220	37	3.557	98	36
2005	7.779	245	32	4.763	124	38
2006	7.807	239	33	5.853	165	35
2007	7.761	240	32	5.900	168	35
2008	8.445	266	32	5.823	162	36
2009	8.556	273	31	5.650	160	35

Average number of starters remains quite stable for the two formats with a slight higher value for CCIs (36) compared to CICs (33).

Falls Statistics 2004 - 2009

Total falls per competition level and percentage of total falls on starters

Year	Total			1*		2*		3*		4*	
	starters	falls	%	falls	%	falls	%	falls	%	falls	%
2004	11.644	700	6,01%	204	4,00%	261	6,07%	172	8,77%	63	22,34%
2005	12.542	826	6,59%	283	4,59%	335	7,65%	182	10,31%	26	11,45%
2006	13.660	789	5,78%	261	4,06%	288	5,99%	202	9,51%	38	12,67%
2007	13.661	781	5,72%	292	4,45%	277	6,31%	177	7,18%	35	14,23%
2008	14.268	818	5,73%	320	4,46%	285	6,12%	163	7,67%	50	16,18%
2009	14.206	778	5,48%	328	4,72%	247	5,24%	165	7,37%	38	12,62%

Period 2004-2009	79.981	4.692	5,87%	1.688	4,40%	1.693	6,21%	1.061	8,37%	250	15,02%
1 every x starters			17		23		16		12		7

- The percentage of falls on starters is constantly decreasing since the beginning of this data collection and from 6.01% is now down to 5.48%. The average percentage for the period is 5.87% representing a risk of a fall every 17 starters.
- The distribution of falls per competition level looks through the years quite stable showing a clear trend of increasing at the higher levels. The average for the period shows a percentage of falls of 4.40% (1 every 23 starters) for the 1 star level growing to 15.02% (1 every 7 starters) for the 4 star level.

Falls per competition format and percentage of falls on starters

Year	Total			CICs			CCIs		
	starters	falls	%	starters	falls	%	starters	falls	%
2004	11.644	700	6,01%	8.087	399	4,93%	3.557	301	8,46%
2005	12.542	826	6,59%	7.779	379	4,87%	4.763	447	9,38%
2006	13.660	789	5,78%	7.807	365	4,68%	5.853	424	7,24%
2007	13.661	781	5,72%	7.761	397	5,12%	5.900	384	6,51%
2008	14.268	818	5,73%	8.445	445	5,27%	5.823	373	6,41%
2009	14.206	778	5,48%	8.556	427	4,99%	5.650	351	6,21%

Period 2004-2009	79.981	4.692	5,87%	48.435	2.412	4,98%	31.546	2.280	7,23%
1 every x starters			17			20			14

- The distribution of falls per competition format shows a clear trend in having a higher percentage of falls in CCIs with an average of the period of 4.98% for CICs and 7.23% for CCIs.

Falls at fences and on the flat and percentage of total falls

Year	Total falls	At fences		On the flat	
		falls	%	falls	%
2004	700	680	97,14%	20	2,86%
2005	826	804	97,34%	22	2,66%
2006	789	761	96,45%	28	3,55%
2007	781	759	97,18%	22	2,82%
2008	818	767	93,77%	51	6,23%
2009	778	741	95,24%	37	4,76%

Period 2004-2009	4.692	4.512	96,16%	180	3,84%
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- The number of falls on the flat in 2008 shows a considerable increase in value and percentage that could be referred to a more accurate collation of information on that type of falls or to a real increase of their occurrence. Figure for 2009 looks more in line with average. To be monitored.

Falls per type and percentage of falls on starters

Year	Total			Unseated riders		Horse falls	
	starters	falls	%	falls	%	falls	%
2004	11.644	700	6,01%	465	3,99%	235	2,02%
2005	12.542	826	6,59%	576	4,59%	250	1,99%
2006	13.660	789	5,78%	549	4,02%	240	1,76%
2007	13.661	781	5,72%	549	4,02%	232	1,70%
2008	14.268	818	5,73%	577	4,04%	241	1,69%
2009	14.206	778	5,48%	533	3,75%	245	1,72%

Period 2004-2009	79.981	4.692	5,87%	3249	4,06%	1443	1,80%
1 every x starters			17		25		55

- Distribution of falls between unseated riders and horse falls looks quite stable with an average for the period of 4.06 unseated riders every 100 starters (1 unseated rider every 25 starters) and 1.80 horse falls every 100 starters (1 horse fall every 55 starters).

Horse falls per type and percentage of type of falls on starters

Year	Total horse falls			Non rotational		Rotational	
	starters	falls	%	value	%	value	%
2004	11.644	235	2,02%	176	1,51%	59	0,51%
2005	12.542	250	1,99%	194	1,55%	56	0,45%
2006	13.660	240	1,76%	189	1,38%	51	0,37%
2007	13.661	232	1,70%	172	1,26%	60	0,44%
2008	14.268	241	1,69%	198	1,39%	43	0,30%
2009	14.206	245	1,72%	213	1,50%	32	0,23%
Period 2004-2009	79.981	1.443	1,80%	1.142	1,43%	301	0,38%
1 every x starters			55		70		266

- The total number of horse falls as a percentage of starters shows a clear descending trend from 2.02 horse fall every 100 starters (1 horse fall every 50 starters) in 2004 to 1.69 horse fall every 100 starters (1 horse fall every 59 starters in 2008). 2009 shows a slight increase 1.72 horse fall every 100 starters that needs careful monitoring.
- Distribution between non rotational and rotational horse falls shows a clear descending trend in rotational horse falls from 0.51 rotational horse fall every 100 starters (1 rotational horse fall every 197 starters) in 2004 to 0.23 rotational horse fall every 100 starters (1 rotational horse fall every 434 starters) in 2009. This represents more than 50% decrease of rotational horse falls in the monitored 6 year period.
- The quality of collected information has improved through better reporting and follow-up. Awareness of the Risk Management program has also developed the comprehension and analysis of falls for a better reporting.

Injury statistics 2004 - 2009

Falls per type of injury and percentage of injuries on starters									
Year	Total starters	No injury		Slight injury		Serious injury		Fatal	
		falls	%	falls	%	falls	%	falls	%
2004	11.644	592	5,08%	77	0,66%	30	0,26%	1	0,0086%
2005	12.542	694	5,53%	97	0,77%	35	0,28%	0	0,0000%
2006	13.660	680	4,98%	73	0,53%	34	0,25%	2	0,0146%
2007	13.661	658	4,82%	78	0,57%	43	0,31%	2	0,0146%
2008	14.268	703	4,93%	75	0,53%	39	0,27%	1	0,0070%
2009	14.206	679	4,78%	74	0,52%	25	0,18%	0	0,0000%
Period 2004-2009	79.981	4.006	5,01%	474	0,59%	206	0,26%	6	0,0075%
1 every x starters			20		169		388		13.330
1 every x fences			599		5.062		11.648		399.905

6 riders suffered fatal accidents in 6 years of FEI competition with more than 2.5 million of XC fences jumped

- Nevertheless average values for the period indicate 5.01 falls with no injury every 100 starters (1 fall with no injury every 20 starters), 0.59 falls with slight injury every 100 starters (1 fall with slight injury every 169 starters), 0.26 falls with serious injury every 100 starters (1 fall with serious injury every 388 starters) and a 0.0075 fatal falls every 100 starters (1 fatal fall every 13.330 starters).
- Interesting to relate the risk of an injury to the number of fences jumped and the average of the period shows a risk of a serious injury every 11.648 fences jumped.

Note:

This and the following table need to be taken with great care because the reporting on injuries of falls is not yet fully satisfactory. The reporting of the type of injury sustained is left to the fence judge that clearly can only base his judgment on a "first impression" that can often be misleading. An improved follow up procedure on injuries will be implemented from 2010 in order to have more reliable information on the exact injuries sustained by riders and horse falling.

Distribution of riders seriously/fatally injured per type of fall and percentage on starters

Year	Total starts	Unseated riders			Non rotational horse falls			Rotational horse falls		
		Falls	Seriously injured		Falls	Seriously injured		Falls	Seriously injured	
			riders	%		riders	%		riders	%
2004	11.644	465	7	0,06%	176	10	0,09%	59	14	0,12%
2005	12.542	576	10	0,08%	194	9	0,07%	56	16	0,13%
2006	13.660	549	10	0,07%	189	14	0,10%	51	12	0,09%
2007	13.661	549	17	0,12%	172	12	0,09%	60	16	0,12%
2008	14.268	577	13	0,09%	199	17	0,12%	42	10	0,07%
2009	14.206	533	11	0,08%	213	7	0,05%	32	7	0,05%
Period 2004-2009	79.981	3.249	68	0,09%	1.143	69	0,09%	300	75	0,09%
1 every x starters				1.176			1.159			1.066

- The relative risk factors of the different type of falls show clearly that the risk of serious injuries changes dramatically from the unseated rider that, as an average of the period (2004-2009), has a risk of having a serious injury once every 48 falls to the rotational horse falls where the average risk of a serious injury is once every 4 falls.
- Interestingly, of the 212 riders seriously injured in the 6 year period (2004-2009), 68 were unseated riders, 69 horse falls and 75 rotational horse.