

## **Reports 2004 – 2010**

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## Competitions Statistics 2004 - 2010

Competitions per Competition Level									
Year	Total number	1*		2*		3*		4*	
		number	%	number	%	number	%	number	%
2004	<b>318</b>	129	40,6%	122	38,4%	62	19,5%	5	1,6%
2005	<b>369</b>	168	45,5%	136	36,9%	60	16,3%	5	1,4%
2006	<b>404</b>	171	42,3%	150	37,1%	77	19,1%	6	1,5%
2007	<b>408</b>	164	40,2%	148	36,3%	91	22,3%	5	1,2%
2008	<b>428</b>	185	43,2%	160	37,4%	76	17,8%	7	1,6%
2009	<b>433</b>	190	43,9%	155	35,8%	82	18,9%	6	1,4%
2010	<b>478</b>	223	46,7%	159	33,2%	89	18,6%	7	1,5%

- Total number of competitions increased in 7 years 51% from 318 to 478
- Distribution of competitions per star level remained basically unchanged with an average of 43,3% for one star, 36,3% for two star, 18,9% for three star and only 1,5% 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	<b>318</b>	220	69,2%	98	30,8%
2005	<b>369</b>	245	66,4%	124	33,6%
2006	<b>404</b>	239	59,2%	165	40,8%
2007	<b>408</b>	240	58,8%	168	41,2%
2008	<b>428</b>	266	62,1%	162	37,9%
2009	<b>433</b>	273	63,0%	160	37,0%
2010	<b>478</b>	306	64,0%	172	36,0%

- Within the overall increased number of competitions the distribution between format shows an average of 64,0% CICs and 36,0 % CCIs.

## Starters Statistics 2004 - 2010

Starters per Competition Level									
Year	Total starters	1*		2*		3*		4*	
		starters	%	starters	%	starters	%	starters	%
2004	<b>11.644</b>	5.100	43,8%	4.301	36,9%	1.961	16,8%	282	2,4%
2005	<b>12.542</b>	6.170	49,2%	4.380	34,9%	1.765	14,1%	227	1,8%
2006	<b>13.660</b>	6.428	47,1%	4.807	35,2%	2.125	15,6%	300	2,2%
2007	<b>13.661</b>	6.563	48,0%	4.388	32,1%	2.464	18,0%	246	1,8%
2008	<b>14.268</b>	7.175	50,3%	4.660	32,7%	2.124	14,9%	309	2,2%
2009	<b>14.206</b>	6.951	48,9%	4.716	33,2%	2.238	15,8%	301	2,1%
2010	<b>15.698</b>	7.702	49,1%	5.183	33,0%	2.417	15,4%	396	2,5%

- Total number of starters increased in 6 years 34,8% from 11.644 to 15.698. Is interesting to notice that after a year (2009) where for the first time the number of starters remains stable, in 2010 the number of starters increased again (over 10% from 2009).
- Distribution of starters per star level remained basically unchanged with an average of 48,1% for one star, 33,9% for two star, 15,8% for three star and 2,2% for four star. The starters at one star level represent nearly 50% of the total number of starters in FEI competitions and one plus two star level take up 82% of the total number of starters.

Average starters per Competition Level							
Year	Starters	Compet.	All levels starters	1*	2*	3*	4*
				starters	starters	starters	starters
2004	11.644	318	<b>37</b>	40	35	32	56
2005	12.542	369	<b>34</b>	37	32	29	45
2006	13.660	404	<b>34</b>	38	32	28	50
2007	13.661	408	<b>33</b>	40	30	27	49
2008	14.268	428	<b>33</b>	39	29	28	44
2009	14.206	433	<b>33</b>	37	30	27	50
2010	15.698	478	<b>33</b>	35	33	27	57

- Average number of starters remains quite stable for all levels with an average of 38 for one star, 32 for two star, 28 for three star and 50 for four star.

Starters per Competition Format					
Year	Total starters	CICs		CCIs	
		starters	%	starters	%
2004	<b>11.644</b>	8.087	69%	3.557	31%
2005	<b>12.542</b>	7.779	62%	4.763	38%
2006	<b>13.660</b>	7.807	57%	5.853	43%
2007	<b>13.661</b>	7.761	57%	5.900	43%
2008	<b>14.268</b>	8.445	59%	5.823	41%
2009	<b>14.206</b>	8.556	60%	5.650	40%
2010	<b>15.698</b>	9.664	62%	6.034	38%

- Within the overall increased number of starters the distribution between format shows a stabilized trend of approximately 60% CICs and 40% CCIs.

Average starters per Competition Format						
Year	CICs			CCIs		
	Starters	Compet.	Average	Starters	Compet.	Average
2004	8.087	220	<b>37</b>	3.557	98	<b>36</b>
2005	7.779	245	<b>32</b>	4.763	124	<b>38</b>
2006	7.807	239	<b>33</b>	5.853	165	<b>35</b>
2007	7.761	240	<b>32</b>	5.900	168	<b>35</b>
2008	8.445	266	<b>32</b>	5.823	162	<b>36</b>
2009	8.556	273	<b>31</b>	5.650	160	<b>35</b>
2010	9.664	306	<b>32</b>	6.034	172	<b>35</b>

Average number of starters remains quite stable for the two formats with a slight higher value for CCIs (35) compared to CICs (32) in 2010.

## Falls Statistics 2004 - 2010

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%
<b>Average 2004-2008</b>			<b>5.95%</b>		4,33%		6,42%		8,58%		15,54%
<b>1 every x starters</b>			<b>17</b>		23		16		12		6
<b>Target 2009-2013</b>			<b>5.40%</b>		3.90%		5.78%		7.72%		12.43%
<b>Alert level</b>			<b>10.80%</b>		7.79%		11.56%		15.44%		24.86%
2009	14.206	778	5,48%	328	4,72%	247	5,24%	165	7,37%	38	12,62%
2010	15.698	783	4,99%	312	4,05%	283	5,46%	144	5,96%	44	11,11%
<b>Average 2009-2010</b>			<b>5,22%</b>		4,37%		5,35%		6,64%		11,76%
<b>1 every x starters</b>			<b>19</b>		23		19		15		9

- The percentage of falls on starters is constantly decreasing since the beginning of this data collection and from 6.01% in 2004 to 4.99% in 2010. The risk of a fall has decreased from one every 17 starters in 2004 to one every 19 starters in 2010.
- The fulfillment of target set for the average of the period 2009-2013 looks reasonably achievable if the trend shown in the first two years (2009-2010) can be maintained. All indicators, a part from the one for the one star level, look in target after the first two years.

Falls per competition format and percentage of falls on starters

Year	Total			CICs			CCIs		
	starters	falls	%	starters	falls	%	starters	falls	%
2004	<b>11.644</b>	<b>700</b>	<b>6,01%</b>	8.087	399	4,93%	3.557	301	8,46%
2005	<b>12.542</b>	<b>826</b>	<b>6,59%</b>	7.779	379	4,87%	4.763	447	9,38%
2006	<b>13.660</b>	<b>789</b>	<b>5,78%</b>	7.807	365	4,68%	5.853	424	7,24%
2007	<b>13.661</b>	<b>781</b>	<b>5,72%</b>	7.761	397	5,12%	5.900	384	6,51%
2008	<b>14.268</b>	<b>818</b>	<b>5,73%</b>	8.445	445	5,27%	5.823	373	6,41%
2009	<b>14.206</b>	<b>778</b>	<b>5,48%</b>	8.556	427	4,99%	5.650	351	6,21%
2010	<b>15.698</b>	<b>783</b>	<b>4,99%</b>	9.664	409	4,23 %	6.034	374	6,209%

period	95.679	5.475	<b>5,72%</b>	58.099	2821	<b>4,85%</b>	37.580	2.654	<b>7,06%</b>
<b>1 every x starters</b>			<b>17</b>			<b>21</b>			<b>14</b>

- Within the overall decrease of falls 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 4,85% for CICs and 7,06% 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	<b>700</b>	680	97,14%	20	2,86%
2005	<b>826</b>	804	97,34%	22	2,66%
2006	<b>789</b>	761	96,45%	28	3,55%
2007	<b>781</b>	759	97,18%	22	2,82%
2008	<b>818</b>	767	93,77%	51	6,23%
2009	<b>778</b>	741	95,24%	37	4,76%
2010	<b>783</b>	709	90,55%	74	9,45%

period	5.475	5.221	<b>95,36%</b>	254	<b>4,64%</b>
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- The number of falls on the flat in 2008 and 2010 shows a considerable increase in value and percentage that could be referred to a more accurate collation of information on that type of falls. Figure for 2009 looks more in line with the preceding years average. To be monitored.

## Falls per type and percentage of falls on starters

Year	Total			Unseated riders		Horse falls	
	starters	falls	%	falls	%	falls	%
2004	<b>11.644</b>	<b>700</b>	<b>6,01%</b>	465	3,99%	235	2,02%
2005	<b>12.542</b>	<b>826</b>	<b>6,59%</b>	576	4,59%	250	1,99%
2006	<b>13.660</b>	<b>789</b>	<b>5,78%</b>	549	4,02%	240	1,76%
2007	<b>13.661</b>	<b>781</b>	<b>5,72%</b>	549	4,02%	232	1,70%
2008	<b>14.268</b>	<b>818</b>	<b>5,73%</b>	577	4,04%	241	1,69%
2009	<b>14.206</b>	<b>778</b>	<b>5,48%</b>	533	3,75%	245	1,72%
2010	<b>15.698</b>	<b>783</b>	<b>4,99%</b>	538	3,43%	245	1,56%

period	95.679	5.475	<b>5,72%</b>	3.787	<b>3,96%</b>	1.688	<b>1,76%</b>
<b>1 every x starters</b>			<b>17</b>		<b>25</b>		<b>57</b>

Within the overall decrease of falls distribution of falls between unseated riders (KPI4) and horse falls looks quite stable around 70% unseated riders and 30% horse falls. The average for the period is of 3,96 unseated riders every 100 starters (1 unseated rider every 25 starters) and 1.76 horse falls every 100 starters (1 horse fall every 57 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	<b>11.644</b>	<b>235</b>	<b>2,02%</b>	176	1,51%	59	0,51%
2005	<b>12.542</b>	<b>250</b>	<b>1,99%</b>	194	1,55%	56	0,45%
2006	<b>13.660</b>	<b>240</b>	<b>1,76%</b>	189	1,38%	51	0,37%
2007	<b>13.661</b>	<b>232</b>	<b>1,70%</b>	172	1,26%	60	0,44%
2008	<b>14.268</b>	<b>241</b>	<b>1,69%</b>	198	1,39%	43	0,30%
2009	<b>14.206</b>	<b>245</b>	<b>1,72%</b>	213	1,50%	32	0,23%
2010	<b>15.698</b>	<b>245</b>	<b>1,56%</b>	197	1,25%	48	0,31%

period	95.679	1.688	<b>1,76%</b>	1.339	<b>1,39%</b>	349	<b>0,36%</b>
<b>1 every x starters</b>			<b>57</b>		<b>71</b>		<b>274</b>

- 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 1.56 horse fall every 100 starters (1 horse fall every 64 starters in 2010) with an average of 1.76 horse falls every 100 starters (1 horse fall every 57 starters).
- Distribution between non rotational (KPI3) and rotational (KPI2) 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 0.31 rotational horse fall every 100 starters (1 rotational horse fall every 274 starters) in 2010. Never less this indicator needs regular careful monitoring as the 2010 value shows to have grown compared with the 2009 value.

## Injury statistics 2004 - 2010

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	<b>11.644</b>	592	5,08%	77	0,66%	30	0,26%	1	0,0086%
2005	<b>12.542</b>	694	5,53%	97	0,77%	35	0,28%	0	0,0000%
2006	<b>13.660</b>	680	4,98%	73	0,53%	34	0,25%	2	0,0146%
2007	<b>13.661</b>	658	4,82%	78	0,57%	43	0,31%	2	0,0146%
2008	<b>14.268</b>	703	4,93%	75	0,53%	39	0,27%	1	0,0070%
2009	<b>14.206</b>	679	4,78%	74	0,52%	25	0,18%	0	0,0000%
2010	<b>15.698</b>	695	4,43%	60	0,38%	27	0,17%	1	0,0064%
period	95.679	4.701	4,91%	534	0,56%	233	0,24%	7	0,0073%
<b>1 every x starters</b>		<b>20</b>		<b>179</b>		<b>411</b>		<b>13.668</b>	
<b>1 every x fences</b>		<b>600</b>		<b>5.370</b>		<b>12.330</b>		<b>410.040</b>	

**7 riders suffered fatal accidents in 7 years of FEI competition with more than 2.9 million of XC fences jumped**

- 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.
- Never less average values for the period indicate 4,91 falls with no injury every 100 starters (1 fall with no injury every 20 starters), 0.56 % falls with slight injury every 100 starters (1 fall with slight injury every 179 starters), 0.24 falls with serious injury every 100 starters (1 fall with serious injury every 411 starters) and a 0.0073 fatal falls every 100 starters (1 fatal fall every 13.668 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 12.330 fences jumped.



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

Year	Total starts	Unseated riders			Non rotational horse falls			Rotational horse falls		
		Falls	Seriously injured riders	%	Falls	Seriously injured riders	%	Falls	Seriously injured riders	%
2004	<b>11.644</b>	465	7	1,51%	176	10	5,68%	59	14	23,73%
2005	<b>12.542</b>	576	10	1,74%	194	9	4,64%	56	16	28,57%
2006	<b>13.660</b>	549	10	1,82%	189	14	7,41%	51	12	23,53%
2007	<b>13.661</b>	549	17	3,10%	172	12	6,98%	60	16	26,67%
2008	<b>14.268</b>	577	13	2,25%	199	17	8,54%	42	10	23,81%
2009	<b>14.206</b>	533	11	2,06%	213	7	3,29%	32	7	21,88%
2010	<b>15.698</b>	538	11	2,04%	197	10	5,08%	48	6	12,50%

period	95.679	3.787	79	<b>2,09%</b>	1.340	79	<b>5,90%</b>	348	81	<b>23,28%</b>
<b>1 every x starters</b>			<b>48</b>				<b>17</b>			<b>4</b>

- 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, 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.
- What is anyway also interesting to note is that of the 239 riders that were injured in the 7 year period 79 where unseated riders falls, 79 horse falls and 81 rotational horse falls.