



Eventing Risk Management Programme Statistics 2006 – 2017

CONTENTS

COMPETITIONS

Statistics
2006 - 2017 **01**

STARTERS

Statistics
2006 - 2017 **05**

FALLS

Statistics
2006 - 2017 **11**

INJURY

Statistics
2006 - 2017 **18**



COMPETITIONS

Statistics 2006 – 2017

COMPETITIONS

Statistics 2006 – 2017

Competitions per Competition Level

Year	Total number	1*		2*		3*		4*	
		number	%	number	%	number	%	number	%
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%
2010	478	223	46.7%	159	33.2%	89	18.6%	7	1.5%
2011	567	241	42.5%	214	37.7%	106	18.7%	6	1.1%
2012	524	232	44.3%	180	34.4%	106	20.2%	6	1.1%
2013	563	261	46.4%	191	33.9%	105	18.6%	6	1.1%
2014	619	290	46.8%	219	35.4%	103	16.6%	7	1.1%
2015	684	290	42.4%	257	37.6%	131	19.1%	6	0.9%
2016	671	308	45.9%	224	33.4%	132	19.7%	7	1.0%
2017	690	322	46.6%	242	35.1%	120	17.4%	6	0.9%

COMPETITIONS

Statistics 2006 – 2017

Competitions per Competition Format

Year	Total number	Short Format (CIC)		Long Format (CCI)	
		number	%	number	%
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%
2010	478	306	64.0%	172	36.0%
2011	567	355	62.6%	212	37.4%
2012	524	347	66.2%	177	33.8%
2013	563	370	65.7%	193	34.3%
2014	619	391	63.2%	228	36.8%
2015	684	457	66.8%	227	33.2%
2016	671	458	68.3%	213	31.7%
2017	690	446	64.6%	244	35.4%

COMPETITIONS

Statistics 2006 – 2017

Key Facts

Total number of competitions has grown by **70% increase** from 2006 to 2017.

As from 2011 the total number of competitions include multiple sections.

Pony competitions are not included.

The distribution between the competition formats shows for 2017 an increase of Short format (CIC) versus Long format (CCI) with 65% of Short format (CIC) competitions versus 35% of Long format (CCI) competitions as opposed to 59% for Short format (CIC) and 41% for Long format (CCI) in 2006.



STARTERS

Statistics 2006 – 2017

STARTERS

Statistics 2006 – 2017

Starters per Competition Level

Year	Total starters	1*		2*		3*		4*	
		starters	%	Starters	%	starters	%	starters	%
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%
2010	15,698	7,702	49.1%	5,183	33.0%	2,417	15.4%	396	2.5%
2011	16,312	7,706	47.2%	5,299	32.5%	2,972	18.2%	335	2.1%
2012	15,456	7,454	48.2%	5,032	32.6%	2,662	17.2%	308	2.0%
2013	17,808	8,925	50.1%	5,675	31.9%	2,874	16.1%	334	1.9%
2014	19,210	9,541	49.7%	6,314	32.9%	2,957	15.4%	398	2.1%
2015	20,351	9,673	47.5%	6,957	34.2%	3,377	16.6%	344	1.7%
2016	19,921	9,874	49.6%	6,306	31.7%	3,373	16.9%	368	1.8%
2017	20,611	10,216	49.6%	6,618	32.1%	3,445	16.7%	332	1.6%

STARTERS

Statistics 2006 – 2017

Average Starters per Competition Level

Year	Starters	Compet.	All levels Starters	1*	2*	3*	4*
				starters	starters	starters	starters
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
2010	15,698	478	33	35	33	27	57
2011	16,312	560	29	33	25	28	56
2012	15,456	511	30	33	28	25	51
2013	17,808	563	32	34	30	27	56
2014	19,210	619	31	33	29	29	57
2015	20,351	668	30	34	28	27	57
2016	19,921	671	30	32	28	26	53
2017	20,611	690	30	32	27	29	55

STARTERS

Statistics 2006 – 2017

Starters per Competition Format

Year	Total starters	Short Format (CIC)		Long Format (CCI)	
		Starters	%	Starters	%
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%
2010	15,698	9,664	62%	6,034	38%
2011	16,312	10,308	63%	6,004	37%
2012	15,456	10,121	65%	5,335	35%
2013	17,808	11,790	66%	6,018	34%
2014	19,210	12,634	66%	6,576	34%
2015	20,351	14,010	69%	6,341	31%
2016	19,921	13,673	69%	6,248	31%
2017	20,611	14,019	68%	6,592	32%

STARTERS

Statistics 2006 – 2017

Average Starters per Competition Format

Year	Short Format (CIC)			Long Format (CCI)		
	Starters	Compet.	Average	Starters	Compet.	Average
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
2010	9,664	306	32	6,034	172	35
2011	10,308	352	29	6,004	208	29
2012	10,121	338	30	5,335	173	31
2013	11,790	370	32	6,018	193	31
2014	12,634	391	32	6,576	228	29
2015	14,010	447	31	6,341	221	29
2016	13,673	458	30	6,248	213	29
2017	14,019	446	31	6,592	244	27

STARTERS

Statistics 2006 – 2017

Key Facts

Total number of starters has grown with a **51% increase** from 2006 to 2017. The average number of starters per competition is 30.

As from 2011 the total number of competitions include multiple sections.

Distribution of starters per star level remains basically unchanged with an average of 49.6% for one star, 32.1% for two star, 16.7% for three star and 1.6% for four star.

The starters at one star level represent nearly 50% of the total number of starters in FEI competitions and together with the two star level make up 80% of the total number of starters.

Within the overall increased number of starters the distribution between format shows a trend of increased participation in Short format (CIC) with 68 % versus 32% for Long format (CCI) in 2017.



FALLS

Statistics 2006 – 2017

FALLS

Statistics 2006 – 2017

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

Year	Total			1*		2*		3*		4*	
	starters	falls	%	Falls	%	Falls	%	falls	%	falls	%
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%
Average 2005-2008			5.94%		4.39%		6.50%		8.54%		13.77%
1 every x starters			17		23		15		12		7
Target 2009-2013			5.40%		3.90%		5.78%		7.72%		12.43%
Alert level			10.80%		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%
2011	16,312	912	5.59%	314	4.07%	343	6.47%	215	7.23%	40	11.94%
2012	15,456	859	5.56%	364	4.88%	263	5.23%	191	7.18%	41	13.31%
2013	17,808	937	5.26%	416	4.66%	293	5.16%	193	6.72%	35	10.48%
Average 2009-2013			5.37%		4.48%		5.52%		6.90%		11.83%
1 every x starters			19		22		18		14		8
Target 2014-2018			5.40%		3.90%		5.78%		7.72%		12.43%%
Alert level			10.80%		7.79%		11.56%		15.44%		24.86%
2014	19,210	1,073	5.59%	468	4.91%	330	5.23%	213	7.20%	62	15.58%
2015	20,351	1,140	5.60%	469	4.85%	400	5.75%	235	6.96%	36	10.47%
2016	19,921	1,064	5.34%	466	4.72%	327	5.19%	226	6.70%	45	12.23%
2017	20,611	1,101	5.34%	484	4.74%	346	5.23%	223	6.47%	48	14.46%
Average 2014-2017			5.47%		4.80%		5.36%		6.82%		13.25%
1 every x starters			18		21		19		15		8
Target 2018-2021			5.40%		3.90%		5.78%		7.72%		12.43%
Alert level			10.80%		7.79%		11.56%		15.44%		24.86%

FALLS

Statistics 2006 – 2017

Falls per competition format and percentage of falls on starters

Year	Total			Short format (CIC)			Long format (CCI)		
	starters	falls	%	starters	Falls	%	starters	falls	%
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%
2010	15,698	783	4.99%	9,664	409	4.23%	6,034	374	6.20%
2011	16,312	912	5.59%	10,308	538	5.22%	6,004	374	6.23%
2012	15,456	859	5.56%	10,121	521	5.15%	5,335	338	6.34%
2013	17,808	937	5.26%	11,790	537	4.55%	6,018	400	6.65%
2014	19,210	1,073	5.59%	12,634	621	4.92%	6,576	452	6.87%
2015	20,351	1,140	5.60%	14,010	726	5.18%	6,341	414	6.53%
2016	19,921	1,064	5.34%	13,673	691	5.05%	6,248	373	5.97%
2017	20,611	1,101	5.34%	14,019	669	4.77%	6,592	432	6.55%

period	201,162	11,035	5.49%	128,788	6,346	4.93%	72,374	4,689	6.48%
	1 every x starters		18		20			15	

FALLS

Statistics 2006 – 2017

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

Year	Totalfalls	At fences		On the flat	
		falls	%	Falls	%
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%
2010	783	709	90.55%	74	9.45%
2011	912	846	92.76%	66	7.23%
2012	859	816	94.99%	43	5.01%
2013	937	850	90.71%	87	9.29%
2014	1,073	965	89.93%	108	10.07%
2015	1,140	1,001	87.81%	139	12.19%
2016	1,064	928	87.22%	136	12.78%
2017	1,101	925	84.01%	176	15.99%
period	11,035	10,068	91.24%	967	8.76%

FALLS

Statistics 2006 – 2017

Falls per type and percentage of falls on starters

Year	Total			Unseated riders		Horse falls	
	starters	falls	%	Falls	%	falls	%
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%
2010	15,698	783	4.99%	538	3.43%	245	1.56%
2011	16,312	912	5.59%	629	3.86%	283	1.73%
2012	15,456	859	5.56%	579	3.75%	280	1.81%
2013	17,808	937	5.26%	653	3.67%	284	1.59%
2014	19,210	1,073	5.59%	758	3.95%	315	1.64%
2015	20,351	1,140	5.60%	854	4.20%	286	1.41%
2016	19,921	1,064	5.34%	786	3.95%	278	1.40%
2017	20,611	1,101	5.34%	816	3.96%	285	1.38%

period	201,162	11,035	5.49	7,821	3.89%	3,214	1.60 %
	1 every x starters		18		26		63

FALLS

Statistics 2006 – 2017

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

Year	Total horse falls			Non rotational		Rotational	
	starters	falls	%	Value	%	value	%
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%
2010	15,698	245	1.56%	197	1.25%	48	0.31%
2011	16,312	283	1.73%	251	1.54%	32	0.20%
2012	15,456	280	1.81%	239	1.55%	41	0.27%
2013	17,808	284	1.59%	244	1.37%	40	0.22%
2014	19,210	315	1.64%	277	1.44%	38	0.20%
2015	20,351	286	1.41%	248	1.22%	38	0.19%
2016	19,921	278	1.40%	248	1.24%	30	0.15%
2017	20,611	285	1.38%	248	1.20%	36	0.17%

period	201,162	3,214	1.60%	2,725	1.35%	489	0.24%
1 every x starters			63		74		460

FALLS

Statistics 2006 – 2017

Key Facts

For 2017, the overall percentage of falls (5.34%) has remained stable compared to 2016 (5.34%), it is slightly lower than the 2011-2016 average of 5.49%.

The number of falls on the flat has increased for 2017, passing from 12.78% in 2016 to 15.99% in 2017. The average over the period is of 8.76%.

The average for the period is of 3.89 unseated riders for every 100 starters (1 unseated rider every 26 starters) and 1.60 horse falls for every 100 starters (1 horse fall every 63 starters).

The distribution of falls per competition format shows an established trend with a higher percentage of falls in Long format (CCI) with an average for the period of 4.93% for Short format (CIC) and 6.48% for Long format (CCI).

Figures for 2017 show a decrease of the percentage of unseated riders. Horse falls have also slightly decreased from 1.40% in 2016 to 1.38 % in 2017.

The percentage of horse falls is below the average of the period.

The percentage of rotational horse falls (higher risk of injuries for horse and rider) has decreased from 0.37 horse fall every 100 starters (1 rotational horse fall every 268 starters) in 2006 to 0.17 rotational horse fall every 100 starters (1 rotational horse fall every 572 starters) in 2017.



INJURY

Statistics 2006 – 2017

INJURY

Statistics 2006 – 2017

Falls per type of injury and percentage of injuries on starters

Year	Total starters	No injury		Slight injury		Serious and fatal injuries	
		falls	%	falls	%	falls	%
2006	13,660	680	4.98%	73	0.53%	36	0.26%
2007	13,661	658	4.82%	78	0.57%	45	0.33%
2008	14,268	703	4.93%	75	0.53%	40	0.28%
2009	14,206	679	4.78%	74	0.52%	25	0.18%
2010	15,698	695	4.43%	60	0.38%	28	0.18%
2011	16,312	848	5.20%	37	0.23%	27	0.17%
2012	15,456	785	5.08%	54	0.35%	20	0.13%
2013	17,808	854	4.80%	60	0.34%	23	0.13%
2014	19,210	982	5.11%	59	0.31%	32	0.17%
2015	20,351	1,068	5.25%	40	0.20%	32	0.16%
2016	19,921	1,002	5.03%	36	0.18%	26	0.13%
2017	20,611	988	4.79%	69	0.33%	44	0.21%

period	201,162	9,942	4.94%	715	0.36%	378	0.19%
1 every x starters			20		281		532
1 every xfences			542		7,537		14,257

INJURY

Statistics 2006 – 2017

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

Year	Total starters	Unseated riders			Non rotational horse falls			Rotational horse falls		
		Falls	Seriously injured		Falls	Seriously injured		Falls	Seriously injured	
			riders	%		riders	%		riders	%
2006	13,660	549	10	1.82%	189	14	7.41%	51	12	23.53%
2007	13,661	549	17	3.10%	172	12	6.98%	60	16	26.67%
2008	14,268	577	13	2.25%	199	17	8.54%	42	10	23.81%
2009	14,206	533	11	2.06%	213	7	3.29%	32	7	21.88%
2010	15,698	538	11	2.04%	197	10	5.08%	48	6	12.50%
2011	16,312	629	9	1.43%	251	13	5.18%	32	5	15.63%
2012	15,456	579	7	1.21%	239	8	3.35%	41	5	12.20%
2013	17,808	653	10	1.53%	244	5	2.05%	40	6	15.00%
2014	19,210	758	13	1.72%	277	13	4.69%	38	5	13.16%
2015	20,351	854	13	1.52%	248	12	4.84%	38	6	15.79%
2016	19,921	786	9	1.15%	248	9	3.63%	30	5	16.67%
2017	20,611	816	18	2.21%	249	17	6.83%	36	9	25.00%
period	201,162	7,821	141	1.81%	2,726	137	5.03%	488	99	18.86%
	1 every x falls		55			20			5	

INJURY

Statistics 2006 – 2017

Key Facts

The numbers and statistics in this section need to be assessed with due care as the reporting on injuries has not always been consistent. The reporting of the type of injury sustained was originally left to the fence judge that could only base his judgment on a “first impression” which could often be misleading. An improved follow up procedure on injuries has been implemented as of 2010 in order to have more reliable information on the exact injuries sustained by the riders and horses.

Therefore, figures from 2010 to 2016 should be considered more reliable, particularly if not compared with the other years. For 2017, out of the 43 serious injuries, 18 were concussions. The injury categories will be reviewed for 2018 to increase the accuracy of the athlete injuries categorization.

The distribution of falls per competition format shows an established trend with a higher percentage of falls in Long format (CCI) with an average for the period of 4.93% for Short format (CIC) and 6.48% for Long format (CCI).

Nevertheless the average values for the period indicate 4.94% falls with no injury every 100 starters (1 fall with no injury every 20 starters), 0.35 % falls with slight injury every 100 starters (1 fall with slight injury every 284 starters), 0.19 % falls with serious injury every 100 starters (1 fall with serious injury every 524 starters) and a 0.0070 % fatal falls every 100 starters (1 fatal fall every 14,369 starters)

INJURY

Statistics 2006 – 2017

Key Facts

Figures for 2017 show a stable percentage of unseated riders. Horse falls have slightly decreased compared with 2016. The percentage of horse falls is below the average of the period.

Relating the risk of an injury to the number of fences jumped the average of the period shows a risk of a serious injury every 14,565 fences jumped.

The relative risk factors for the different types of falls show clearly that the risk of having a serious injury changes dramatically from the unseated rider for whom, as an average of the period, the risk of having a serious injury is once every 55 falls to the rotational horse falls where the average risk of a serious injury is once every 5 falls.



www.fei.org