

Eventing
Forum and NSO
Seminar

20-22 January 2023



# Risk management data: 2022 Highlights of international statistics

- David O'Connor FEI Chair Eventing Committee, USEF Chief of Sport, FEI CD
- Geoff Sinclair Chair RMSG, FEI TD



# COMPETITIONS AND STARTERS Statistics 2011 – 2022





# 2022 Highlights of international statistics

#### Competitions

Starters
----------

Year	Competitions Total number
2011	567
2012	524
2013	563
2014	619
2015	684
2016	671
2017	690
2018	725
2019	758
2020	335
2021	660
2022	788

Starters										
Year	Total	1* (former intro)	2*	3*	4*	5*				
2018	20,903	180	10,082	6,603	3,638	400				
2019	20,921	904	9,185	6,721	3,839	272				
2020	10,644	845	4,705	3,347	1,702	45				
2021	19,231	2,081	7,972	5,773	3,198	207				
2022	21,560	2,847	8,946	6,304	3,093	370				

#### From 2021 to 2022

- Number of competitions have increased by 19.4%
- Number of starters have increased by 12.1%



# FALLS Statistics 2011 – 2022



## **Falls**

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

Voor	Yoar Total		1* (form	1* (former Intro)		2* (former 1*)		3* (former 2*)		4* (former 3*)		5* (former 4*)	
Year	starters	falls	%	Falls	%	Falls	%	Falls	%	falls	%	falls	%
2014	19,210	1,073	5.59%	NA	NA	468	4.91%	330	5.23%	213	7.20%	62	15.58%
2015	20,351	1,140	5.60%	NA	NA	469	4.85%	400	5.75%	235	6.96%	36	10.47%
2016	19,921	1,064	5.34%	NA	NA	466	4.72%	327	5.19%	226	6.70%	45	12.23%
2017	20,611	1,101	5.34%	NA	NA	484	4.74%	346	5.23%	223	6.47%	48	14.46%
2018	20,903	1,123	5.37%	7	3.89%	488	4.84%	335	5.07%	249	6.84%	44	11.00%
2019	20,921	1,166	5.57%	45	4.98%	447	4.87%	352	5.24%	287	7.48%	35	12.87%
2020	10,644	462	4.34%	33	3.91%	177	3.76%	163	4.87%	89	5.23%	0	0.00 %
2021	19,231	958	4.98%	68	3.27%	354	4.44%	298	5.16%	209	6.54%	29	14.01%
2022	21,560	1,161	5.38%	119	4.18%	458	5.12%	320	5.08%	223	7.21%	41	11.08%

#### Falls per type and percentage of falls on starters

		Unseate	ed Riders	Horse Falls					
Year	% falls on starters	Falls	% on starters	Total Falls	Falls at XC fence	Total %	XC falls %		
2019	5.57%	882	4.22%	284	238	1.36%	1.14%		
2020	4.34%	358	3.36%	104	84	0.98%	0.79%		
2021	4.98%	743	3.86%	215	183	1.12%	0.95%		
2022	5.38%	909	4.22%	252	215	1.17%	1.00%		







## **Falls**

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

		Non ro	otational	Rotational																					
Year	Total fence falls		Total %	Total falls	%																				
2011	2!	51	1.54%	32	0.20%																				
2012	23	39	1.55%	41	0.27%																				
2013	244		244		244		244		1.37%	40	0.22%														
2014	277		1.44%	38	0.20%																				
2015	248		248		248		248		1.22%	38	0.19%														
2016	24	248 1.24%		30	0.15%																				
2017	249		249		249		249		249		249		249		249		17 249		17 249		249 1.21%		1.21%	36	0.17%
2018	295		295		295		295		295		295		295		295		295		295 1.41%		1.41%	28	0.13%		
2019	258		258 1.23%		0.12%																				
2020	92		92 0.86%		0.86%	12	O.11%																		
2021	186		0.97%	29	0.15%																				
2022	237		237		1.10%	15	0.07%																		





JARDY-VERSAILLES, FRANCE

20-22 JANUARY 2023

2011 - 2022

### Horse falls at a fence per format and level

Percentage of falls on starters (at the level)

	CCI1*	-Intro	CCI	2*-S	CCI	3*-S	CCI	4*-S	CCI	2*-L	CCI	3*-L	CCI	4*-L	CCI	5*-L
Year	N° Horse falls	% on starters at the level														
2011	N/A	N/A	42	0.91%	60	1.67%	50	2.39%	25	0.81%	33	1.94%	27	3.06%	20	5.97%
2012	N/A	N/A	37	0.83%	56	1.57%	59	2.84%	39	1.33%	26	1.80%	26	4.03%	15	4.87%
2013	N/A	N/A	47	0.84%	48	1.19%	44	2.01%	51	1.52%	37	2.24%	21	3.06%	15	4.49%
2014	N/A	N/A	48	0.86%	56	1.19%	46	1.99%	45	1.14%	35	2.20%	28	4.36%	23	5.78%
2015	N/A	N/A	43	0.69%	68	1.28%	41	1.67%	27	0.79%	44	2.65%	20	2.17%	17	4.94%
2016	N/A	N/A	47	0.74%	59	1.25%	52	1.98%	36	1.01%	23	1.46%	19	2.53%	20	5.43%
2017	N/A	N/A	42	0.66%	45	0.89%	41	1.60%	45	1.17%	25	1.62%	33	3.75%	21	6.33%
2018	N/A	N/A	48	0.77%	60	1.20%	63	2.25%	41	1.08%	25	1.55%	21	2.52%	15	3.75%
2019	2	0.22%	40	0.68%	38	0.75%	70	2.44%	33	0.99%	21	1.28%	22	2.26%	12	4.41%
2020	5	0.59%	9	0.27%	16	0.60%	20	1.50%	9	0.66%	12	1.73%	11	2.97%	0	0.00%
2021	5	0.24%	33	0.63%	43	0.98%	34	1.39%	17	0.62%	19	1.39%	17	2.27%	15	7.25%
2022	9	0.32%	39	0.65%	53	1.06%	38	1.54%	22	0.74%	19	1.44%	16	2.58%	19	5.14%
Target		N/A		0.75%		1.00%		2.00%		1.00%		1.50%		2.50%		4.00%



### Falls 2011 - 2022

#### **FALLS KEY FACTS:**

- The number of falls on the flat (non XC fence related, Dressage, Jumping, Warm-up) has slightly increased passing from 22.96% in 2021 to 27.82% in 2022.
- The average for the period is of 3.93 unseated athletes for every 100 starters (1 unseated athlete every 25 starters) and 1.43 horse falls for every 100 starters (1 horse fall every 70 starters).
- The distribution of falls per competition format shows an established trend with a higher percentage of falls in Long format with an average for the period of 4.94% for Short format and 6.40% for Long format.
- Figures for 2022 show that the 4.22% of unseated athletes is just above the average of the period of 3.93%. Total horse falls at 1.17% are well below the average of the period of 1.43%.
- The percentage of rotational horse falls (higher risk of injuries for horse and athlete) has decreased from 0.20 horse fall every 100 starters (1 rotational horse fall every 510 starters) in 2011 to 0.07 rotational horse fall every 100 starters (1 rotational horse fall every 1437 starters) in 2021. Rotational falls have constantly been decreasing since 2013 and have never reached such a low rate.



# INJURY Statistics 2011 – 2022



# Injuries

# Falls per type of injury and percentage of injuries on starters

Voor	No ir	njury	Serious and fatal injuries					
Year	Falls	% (on starters)	Falls	Concussion	% (on starters)			
2011	848	5.20%	2	7	0.17%			
2012	785	5.08%	20	)	0.13%			
2013	854	4.80%	2:	3	0.13%			
2014	982	5.11%	32		0.17%			
2015	1,068	5.25%	32		0.16%			
2016	1,002	5.03%	20	5	0.13%			
2017	988	4.79%	4	4	0.21%			
2018	989	4.73%	41	26	0.20%			
2019	1,045	4.99%	35	15	0.17%			
2020	419	3.94%	8 3		0.08%			
2021	838	4.36%	24	5	0.12%			
2022	1,008	4.68%	34 10		0.16%			

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

	Unseated	d athletes	Non ro	tational	Rotational			
Year	Seriousl	y injured	Seriousl	y injured	Seriously injured			
	Athletes	% (on starters)	Athletes	% (on starters)	Athletes	<b>%</b> (on starters)		
2011	9	1.43%	13	5.18%	5	15.63%		
2012	7	1.21%	8	3.35%	5	12.20%		
2013	10	1.53%	5	2.05%	6	15.00%		
2014	13	1.72%	13	4.69%	5	13.16%		
2015	13	1.52%	12	4.84%	6	15.79%		
2016	9	1.15%	9	3.63%	5	16.67%		
2017	18	2.21%	17	6.83%	9	25.00%		
2018	15	1.88%	21	7.12%	5	17.86%		
2019	12	1.36%	18	6.98%	5	19.23%		
2020	2	0.56%	3	3.26%	3	25.00%		
2021	3	0.40%	14	7.53%	7	24.14%		
2022	16	1.76%	13	5.49%	5	33.33%		



# Injuries

#### **INJURIES KEY FACTS:**

- As from 2019, the serious injury definition has been reviewed to "Serious injuries can be categorised as those that, in the opinion of the referring doctor, would require hospital admission for immediate treatment. Examples: major fractures (including all compound fractures, but excluding simple fractures of clavicle and wrist), crush injuries with suspicion of pneumothorax, ruptured spleen etc."
- For 2022, 34 serious injuries were reported. Out of the 15 rotational falls in 2022, 33% led to a serious injury (5 falls). Although, rotational falls have decreased, this is a big focus to eliminate.
- A total of 17 concussions were reported, 10 linked to a serious injury and 7 to a slight injury.
- In 2022, 86.8% of falls caused no injuries, 10.3% caused slight injuries and 2.9% led to serious injuries.
- 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 athlete for whom, as an average of the period, the risk of having a serious injury is once every 69 falls to the rotational horse falls where the average risk of a serious injury is once every 6 falls.





# **Venue Analysis**



# Thank you for your attention.

**Questions?**