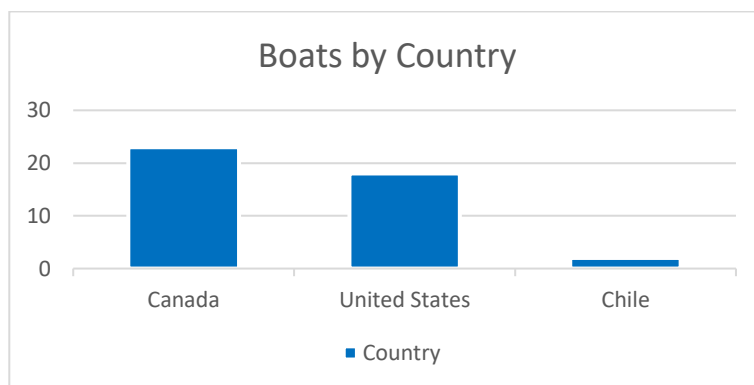
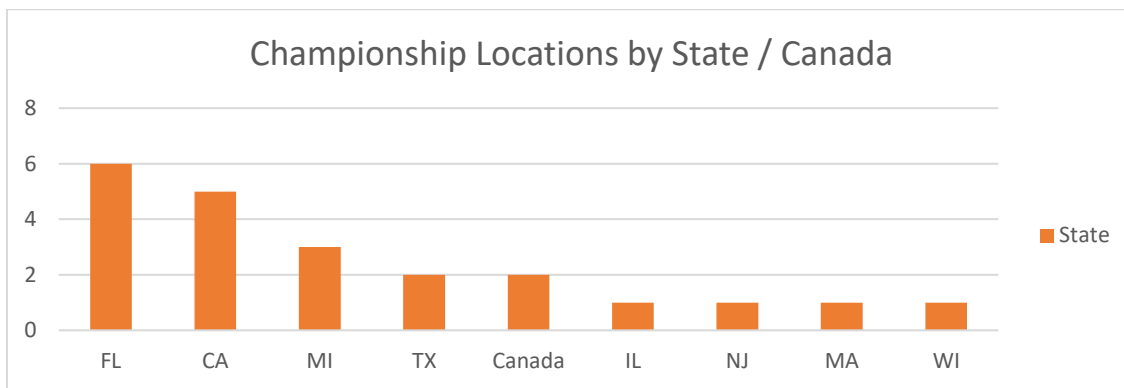


2023 F18 North American Championship Burlington Canada Statistics

Following are statistics from the 2023 F18 North American Championships held in Burlington, Canada on Lake Ontario from September 18-22, 2023 with 43 boats and 86 competitors representing 4 countries. For many of the statistics I also include for comparison the data from the 2023 F18 World Championships held in Travemunde Germany with 97 boats.

This data shows the class is very strong with boats from six builders represented and sails from nine different sailmakers used in these North Americans. This keeps prices for boats and sails competitive. The data also shows that no single boat manufacturer or sailmaker dominates. There is also strong design competition between the different vendors. Though the data shows that the top boats tend to use new boats and new sails, we caution you not to interpret the data to say that you need to buy a new boat and/or sails to be competitive. In fact, the second place boat was 8 years old using sails 4-5 years old. This data does not show other important factors for being in the top of the fleet: years of racing experience, years sailing with the same crew, ability to reliably have a good start with clear wind, ability to read the wind shifts and sail the favored course, boat handling in tight rounding situations, good helmsmanship, practice time on the water, boat setup, etc.

This was the second major F18 North American regatta to be held in Canada. Here are the locations of all the major events (US Nationals, North Americans, Americas and Worlds) in North America since 2002.



2023 F18 North American Championship Burlington Canada Statistics

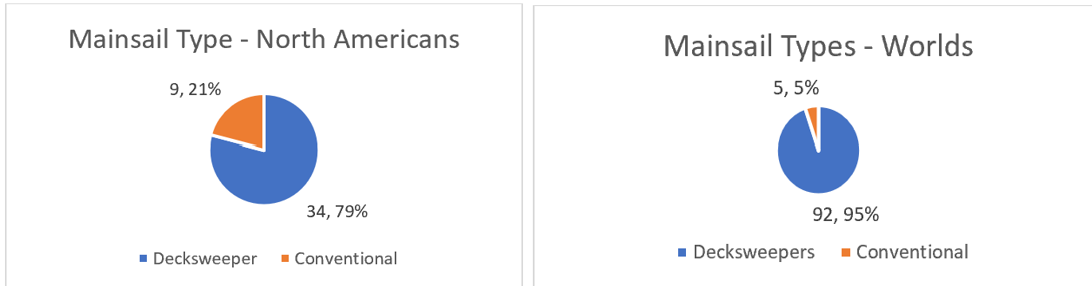
COMPETITOR AGE DISTRIBUTION				
	Helm		Crew	
	2023 NAs	2023 Worlds	2023 NAs	2023 Worlds
Oldest	69	68	69	66
Average	49	47	37	38
Median	53	50	34	33
Youngest	15	19	16	15

Median Age = age when ½ of competitors are older and ½ are younger.
The North American fleet was only slightly older than the Worlds fleet.

SPECIAL AWARD CATEGORIES								
Boats:	North Americans				Worlds			
	43				97			
	Number	% of Fleet	Best Finish	% of Fleet	Number	% of Fleet	Best Finish	% of Fleet
Masters	6	14%	20	47%	20	21%	9	9%
Youth	2	5%	6	14%	4	4%	47	48%
Family	5	12%	17	40%	18	19%	6	6%
All Women	0	0%		0%	0	0%		0%
Mixed	12	28%	2	5%	21	22%	19	20%
Woman Helm	2	5%	11	26%	5	5%	50	52%
Women	12	14%			21	11%		
Men	74	86%			173	89%		

Percentage of mixed teams greater at the North Americans than the Worlds.
Percent of women helms very similar between the two regattas.
Woman helm and youth teams performed at a higher level at the North Americans.
More masters and family teams at the Worlds.

2023 F18 North American Championship Burlington Canada Statistics

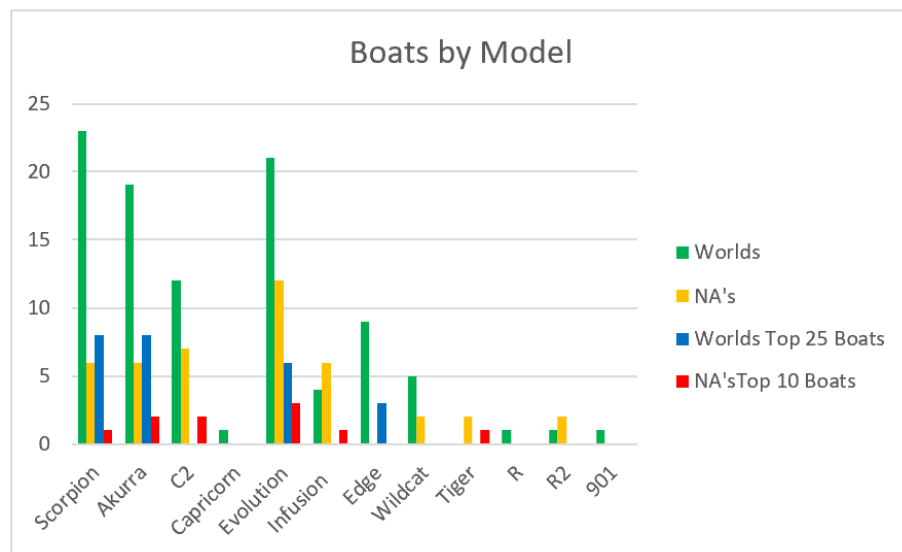
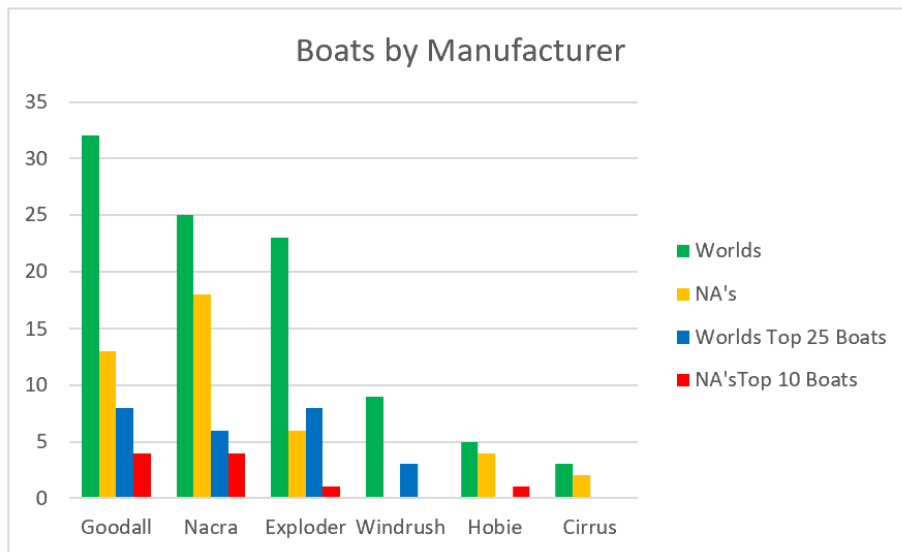


The top placing conventional sail at North Americans was 18th place.

All conventional sails at Worlds placed in the Silver Fleet.

More conventional sails in the North American fleet than in Europe.

In the following data I included the top 10 boats at NAs and top 25 boats at the Worlds which are both about 25% of the total fleet.



2023 F18 North American Championship Burlington Canada Statistics

Boat Age Distribution				
Boats:	North Americans		Worlds	
	Total	Top 10	Total	Top 25
Oldest	19	19	18	5
Average	6.1	5.4	3.8	1.4
Median	3.0	3.0	3.0	1.0
Youngest	0	3	0	0

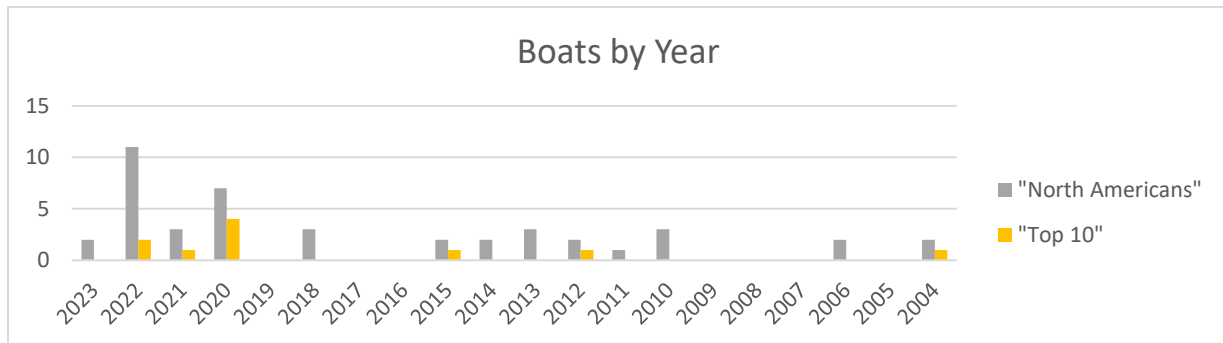
# New Boats	2	0	14	8
Percent	5%	0%	14%	32%

New boats = 2023

1st Place Boat at Worlds was 5 years old.

2nd Place Boat at North Americans was 8 years old.

Median age is the same for the North Americans and the Worlds.



2023 F18 North American Championship Burlington Canada Statistics

Boat Weight Statistics (Kg)				
Boats:	North Americans		Worlds	
	Total	Top 10	Total	Top 25
Heaviest	196	183.5	197	186
Average	181.1	179.1	182.4	181.0
Median	180.0	179.0	181.8	181.0
Lightest	175	177	173	173

Boat Weight Statistics (lbs)				
Boats:	North Americans		Worlds	
	Total	Top 10	Total	Top 25
Heaviest	431	404	433	409
Average	398	394	401	398
Median	396	394	400	398
Lightest	385	389	381	381

Boats with Corrector Weights:

Boats	19	7	7	4
Percent	44%	70%	7%	16%
Avg Weight	0.8	1.3	0.4	0.6

Boats with Corrector Weights:

Boats	19	7	7	4
Percent	44%	70%	7%	16%
Avg Weight	1.8	2.9	0.9	1.3

Minimum for no corrector weights: 180 kg

Minimum: 173kg (Maximum 7kg corrector weight)

Minimum for no corrector weights: 396 lbs

Minimum: 380.6 lbs (Maximum 15.4 lbs corrector weight)

We also weighed all boats without sails to provide data for a proposed class rule change to weigh boats without sails starting next year. We found a very close average and median weight of the sails across the fleet.

	All Boats at Regatta (43)		
	Boat Weight with Sails	Boat Weight without Sails	Sail Weight (Calculated)
Maximum:	196.0	186.0	13.0
Average:	181.1	170.1	11.0
Median:	180.0	169.0	11.0
Minimum:	175.0	165.0	9.5

	Boats Built Since 2018 (23)		
	Boat Weight with Sails	Boat Weight without Sails	Sail Weight (Calculated)
	181.5	171.0	13.0
	179.2	168.0	11.2
	179.0	168.0	11.0
	177.0	165.5	10.0

Min Weight:	180.0	TBD	
Absolute Minimum:	173.0	TBD	

	180.0	TBD	
	173.0	TBD	

2023 F18 North American Championship Burlington Canada Statistics

CREW WEIGHT (Helm + Crew) (kg)				
Boats:	North Americans		Worlds	
	Total	Top 10	Total	Top 25
Maximum	217.0	160.5	193	175.3
Average	160.8	151.1	160.7	156.1
Median	157.0	151.3	158.7	155.4
Minimum	132.0	140.0	136.9	143.4

CREW WEIGHT (Helm + Crew) (lbs)				
Boats:	North Americans		Worlds	
	Total	Top 10	Total	Top 25
Maximum	477	353	425	386
Average	354	332	354	343
Median	345	333	349	342
Minimum	290	308	301	315

Median Weight (kg)				
Helm	83.8	77.3	82.9	77.8
Crew	75.75	73.5	79.3	78.7

Median Weight (lbs)				
Helm	184	170	182	171
Crew	167	162	174	173

Boats with Crew Corrector Weights				
Boats	7	3	8	4
%	16%	30%	8%	16%

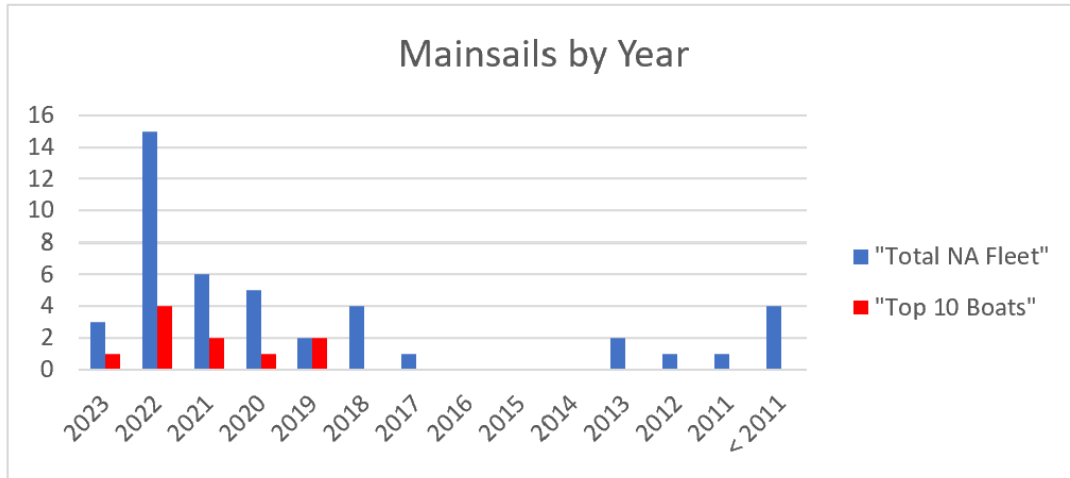
Boats with Crew Corrector Weights				
Boats	7	3	8	4
%	16%	30%	8%	16%

Corrector Weight (kg)				
Maximum	10.00	10.0	6.25	2.8
Average	3.30	4.0	2.2	1.5

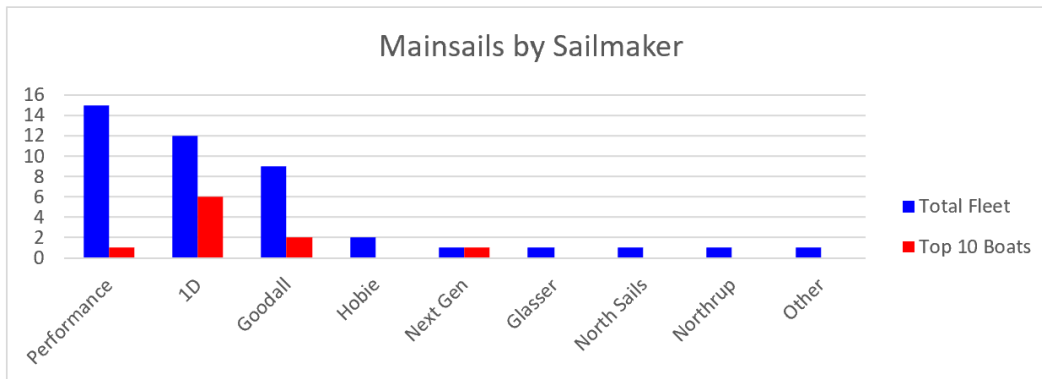
Corrector Weight (kg)				
Maximum	22	22	14	6
Average	7.3	8.8	4.9	3.3

Minimum for no corrector weights: 150 kg

Minimum for no corrector weights: 330 lbs

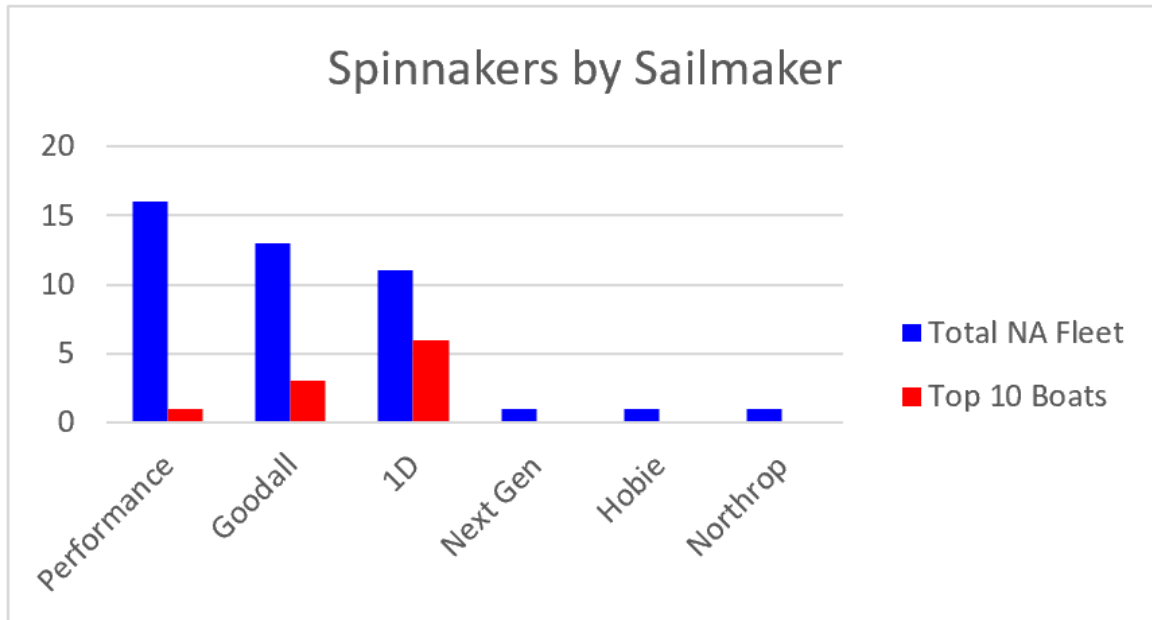
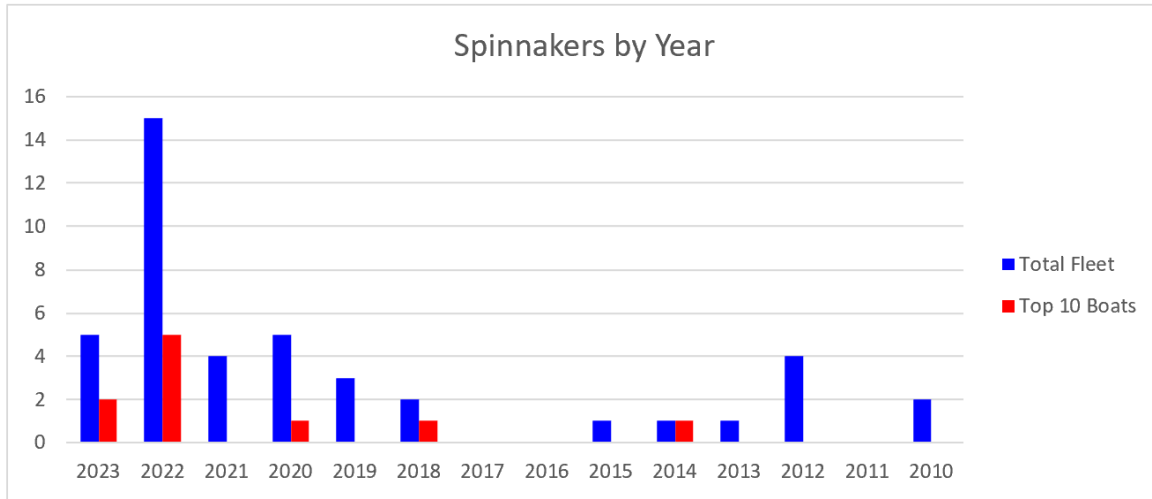


72% of jibs were same year as mainsail so did not produce a chart for jibs.



88% of jibs were same manufacturer as the main sail so did not produce a chart for jibs

2023 F18 North American Championship Burlington Canada Statistics



79% of spinnakers were same manufacturer as the main sail