

MSF Statistics Report 2022

Non-Contributor report.



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Introduction.

- Following on from the success of previous reports, the MSF has again produced this annual membership statistics report up to the end of 2022.
- This report utilises data from 24 different member companies in total.
- Data ranges from 5 years to just 1 year depending on what data the companies were able to provide.

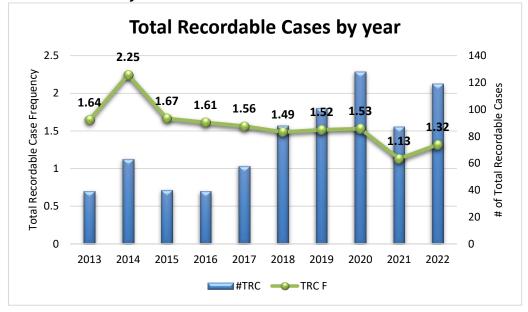
Year	# of Company data	
2018	14	
2019	16	
2020	19	
2021	17	
2022	20	

- All member data provided to the MSF is treated in the strictest confidence.
- The aim of the MSF Safety Statistics and this report is to:
 - Identify industry problem areas.
 - \circ $\;$ Focus MSF communication (Safety Alerts, guidance documents) on areas that need it most.
 - Quantify industry safety standards so that they can be measured for years to come to assess and encourage improvement.
- This report contains sections called '*Membership Statistical Results*' where the data from all companies is combined to enable to comparison of the statistics for each of the last 5 years to show overall MSF membership rolling performance.
- The report contains topics of analysis which have been divided into lagging and leading indicators.
- The report also calculates and compares an overall lagging and leading frequency for each company and the membership in total (The formulas for which can be seen in the 'Abbreviations and Definitions' section.)
- This report (and previous reports) and the data submission template can be found at the MSF website https://www.marinesafetyforum.org/stats/
- This report only shows that data for the entire membership. A separate more detailed report is available but only for those companies that have contributed data to allow for anonymous benchmarking with other companies and the industry.



Membership Statistical Results Lagging Indicators





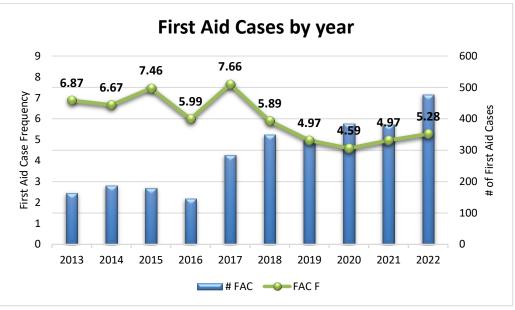
Total Recordable Injuries

Notes:

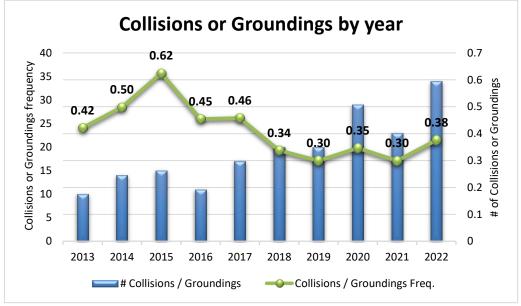
• #LTI & #TRC are not directly comparable due to some companies not submitting 5 years of data.







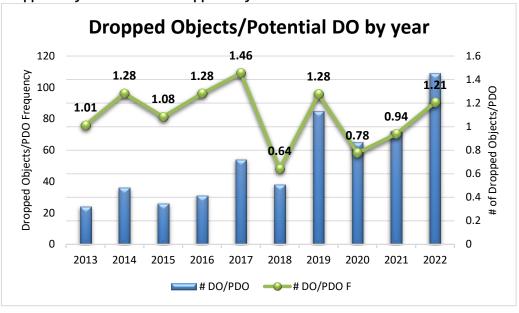
Collisions or Groundings



Notes:

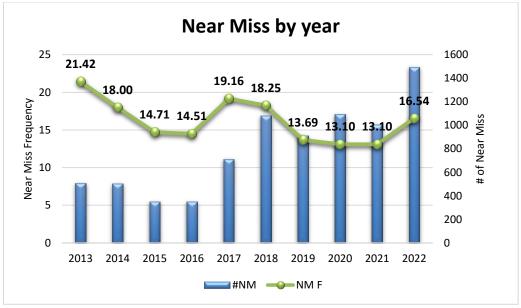
• #NM & #Collisions/Groundings are not directly comparable due to some companies not submitting 5 years of data.





Dropped Objects/Potential Dropped Objects



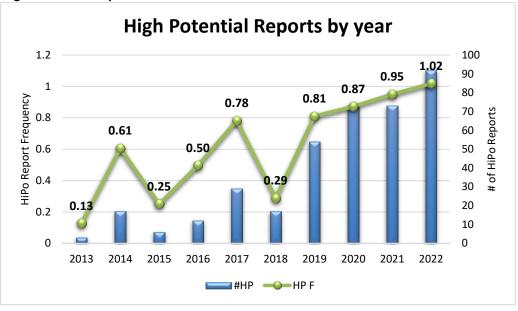


Notes:

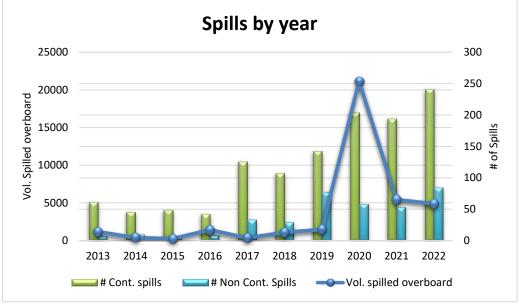
• #DO/DPO & #NM are not directly comparable due to some companies not submitting 5 years of data.











Notes:

• #HP and #Spills are not directly comparable due to some companies not submitting 5 years of data.





Leading Indicators

Senior Leader Visits

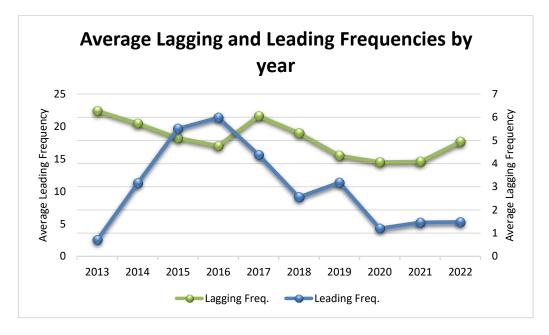


Notes:

• #SV are not directly comparable due to some companies not submitting 5 years of data.



Lagging vs Leading Indicators

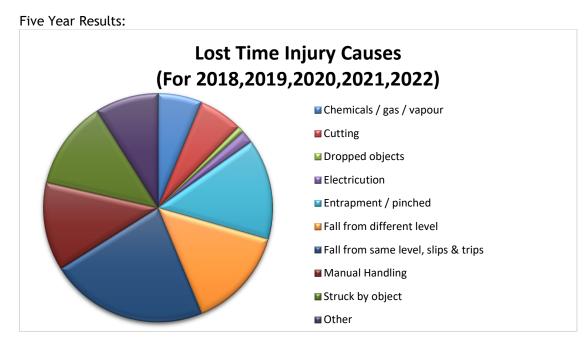


Notes:

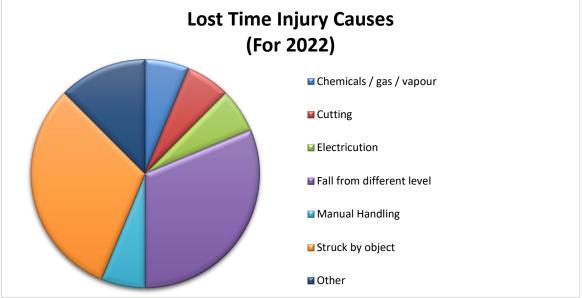
• For definitions of lagging and leading indicators please see section ' Abbreviations and Definitions'



Incident Causes Lost Time Injury Immediate Causes





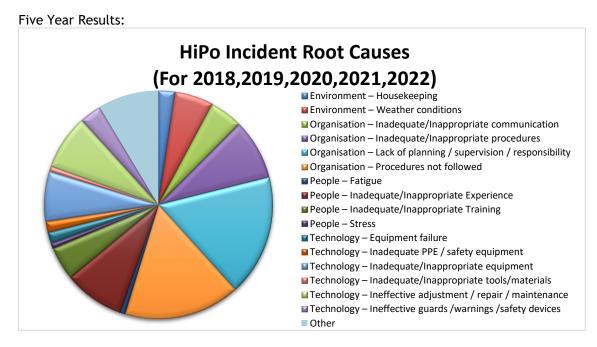


Notes:

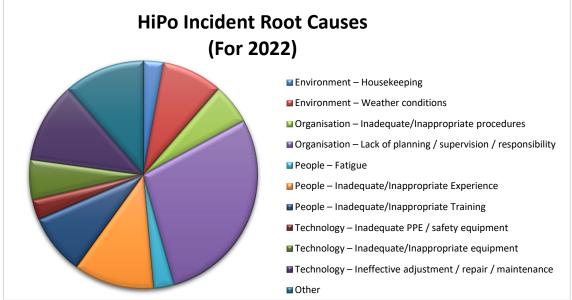
• Causes that were not attributed to an incident are not shown in the charts above. See appendix.



High Potential Report Root Causes







Notes:

• Causes that were not attributed to an incident are not shown in the charts above. See appendix.



MSF Safety Alerts

History

The following chart shows the number of safety alerts published historically by the MSF.



Categories

The following chart shows the number of safety alerts historically published for each category.





The following chart shows the number of safety alerts published in 2022.





Observations and Conclusions

Membership Statistical Results

- After four consecutive years of falling LTIF, 2022 saw an unfortunate increase for the member companies that have contributed data. TRCF has also seen an unfortunate increase in 2022 compared to 2021.
- Unfortunately FACF also increased in 2021 for the second year in a row which would suggest that the overall injury rate has significantly worsened.
- Near Miss frequency has worryingly also seen its biggest increase in 2022 since 2017.
- Dropped Object (and PDO) had been volatile year on year but has now increased for a second year in a row and High Potential reports has also unfortunately increased for the fourth year in a row.
- 2022 saw an increase in both contained and uncontained spill however thankfully the quantity that was spilled overboard actually reduced from previous years.
- The Safety Observation frequency saw a welcome increase in 2022, following an out of trend drop in 2021 and is now back in line with previous years.
- Senior Leader vessel visits saw a somewhat surprising reduction in 2022, and worryingly has not returned to anywhere near the pre COVID rate.
- The Average Leading Frequency remained almost identical in 2022, Average Lagging Indicator Frequency saw a sizable increase due to the increase of many of the lagging inputs.

Incident Causes

- *'Slips trips and falls'* remains the most common cause in the historic LTI data and was one of the highest again in 2022. The industry is still struggling to identify ways in which to reduce this cause.
- 'Dropped objects' (caused by gravity) and 'Struck by object' (caused by a force other than gravity) combined have historically been a common cause of LTI. 2022 no LTIs caused by a dropped object, which would suggest that the member data is more influenced by potential dropped objects than actual or that the industry has turned a corner with this common concern. However in 2022 'Struck by object' was the joint most common cause of LTI which is a set back on 2021.
- Once again 2021 LTI causes are heavily influenced by close quarters factors such as 'Chemicals', 'Cutting', 'Electrocution' and 'Manual Handling' which reminds us of the importance on maintaining high personal safety standards at all times.
- Around a third of all High Potential reports since 2017 were assigned the root cause of 'Lack of planning / supervision / responsibility' and 'Procedures not followed' which would suggest that the industry still needs much improvement on an organisational level. This is again backed up by the fact that the most common category of safety alerts since 2003 remains 'Control of work activity'.



Appendix

Abbreviations and Definitions

The following abbreviations were used in this report:

- LTI Lost Time Injury
- TRC Total Recordable Cases (LTI+RWC+MTC)
- RWC Restricted Work Cases
- MTC Medical Treatment Case
- FAC First Aid Case
- INC Collisions or Grounding Incidents
- DO / PDO Dropped Object / Potential Dropped Object
- NM Near Miss
- HP High Potential
- HiPo High Potential
- SO Safety Observation
- SV Senior Leader (Management) Visit
- SA Safety Alerts (submitted to MSF)
- All of the above followed by the suffix 'F' means the respective frequency:

(With the exception of Safety Observation Frequency which is X 200,000)

- Average Lagging Frequency = <u>TRCF+FACF+NMF+INCF+DOF</u> 5
- Average Leading Frequency = <u>(SOF÷100)+SVF+SAF</u>
 3
- For the purposes of this report, Safety Observations are to be considered a POSITIVE intervention to avoid an incident in future.
- 'Senior Leader (Management) for the purposes of this report is to be considered as executive and/or senior management level.



Causes

The following causes were given as options for the LTI immediate cause:

- Chemicals / gas / vapour
- Cutting
- Dropped objects (caused by gravity)
- Electrocution
- Entrapment / pinched
- Fall from different level
- Fall from same level, slips & trips
- Manual Handling
- Struck by object (caused by a force other than gravity)
- Other

The following causes were given as options for the HiPo Report root cause: Technology - Equipment failure

- Technology Inadequate/Inappropriate equipment
- Technology Inadequate/Inappropriate tools/materials
- Technology Ineffective guards /warnings /safety devices
- Technology Inadequate PPE / safety equipment
- Technology Ineffective adjustment / repair / maintenance
- Organisation Inadequate/Inappropriate procedures
- Organisation Procedures not followed
- Organisation Lack of planning / supervision / responsibility
- Organisation Inadequate/Inappropriate communication
- Organisation Lack of resources
- Environment Housekeeping
- Environment Weather conditions
- Environment Temperature extremes
- Environment Noise
- Environment Lighting
- Environment Ventilation
- People Inadequate/Inappropriate Experience
- People Inadequate/Inappropriate Training
- People Insufficient Physical ability
- People Fatigue
- People Stress
- Other



Submission Form

The following form was used for the submission of data used in this report:

	Voscal On	erator Safety Si	tatistics
$\sim\sim$	-	he MSF will be treated in the	
MARINE			
Safety Forum		Year	2022
Company name		Number of Vessel	ls
	Africa		Anchor Handling Tug Supply
	Asia/Pacific		Emergency Response & Rescue Vessel
Areas of	Europe	Type of	PSV
	Middle East	Vessel	Seismic
Operation	North America	Fleet	Subsea Support Vessel
	South America		Windfarm
	Other		Other
F		5-1-11- (17) G	
Exposure Hours Exposure Hours record		Fatality / LTI Cause	es
	ed	LTI 2	
Recording method		LTI 3	
Indicators		LTI 4	
		LTI 5	
Number Of Fatalities		LTI 6	
Number of Lost Time Incidents			
Number of Restricted Work Cases			
Number of Medical Treatment Cases Total Number of Recordable injuries		LTI 8 LTI 9	
Number of Recordable Injuries			
Number of collisions /		LTI 10	
		Hi-Po Causes	
Number of Dropped or potential dropped objects Number of Near Miss reports		Hi-Po Causes	
		Hi-Po 1 Hi-Po 2	
Number of Hi-Po reports Number of Safety Observations		Hi-Po 2 Hi-Po 3	
Number of Senior Lead		Hi-Po 3 Hi-Po 4	
Number of Safety Aler	ts sent to MSF	Hi-Po 5	
		Hi-Po 6	
Environmental		Hi-Po 7	
Number of Contained Spills		Hi-Po 8	
Number of Non Contained Spills		Hi-Po 9	
Approx. volume (litre	s) of total Non Contained Spills	Hi-Po 10	
Frequency Rates		Safety Observatio	n Trends
Lost Time Frequency Rate, Based on 1M Hours		1st	
Total recordable Frequency Rate, Based on 1M Hours		2nd	
Safety Observation Fre	equency Rate, Based on 200K Hours	3rd	
E alla company			

Further Comments: