



IADC ISP Program 2023

SUMMARY OF OCCUPATIONAL
INCIDENTS (INDUSTRY TOTALS)

Issued 30 March 2024



IADC ISP Program 2023

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Summary of Occupational Incidents Introductory Briefing

GENERAL UPDATE

In 2022 a workgroup was formed under the IADC HSE Committee to completely review and rewrite the IADC ISP Guidelines document. In the past, updates were made annually but this was the first complete rewrite in more than a decade. The new document is now evergreen and is online at the ISP site to ensure that all participants and HSE professionals are referring to the most recent version. The Q&A document was reviewed, and many answers were incorporated directly into the guidelines thus eliminating additional documents and potential for contradictions. A question-and-answer link was also added to the ISP site so that participants may still submit questions that will be reviewed and answered by the HSE committee.

Lastly, in late 2022 the IADC Executive Committee approved a proposal to build a modern, internet-based ISP system allowing much more participant insight and direct access to reports. Two workgroups were formed and met to scope the project and development began on 12 January 2023. This new ISP system was launched in the fall of 2023.

Data gathered in the IADC Incident Statistics Program (ISP) data base, shows that the oil and gas well drilling industry continues work toward reducing incidents on rigs. Despite increased rig demand in 2023, the incidence rates decreased slightly from 2022. Although IADC ISP calculates both Incidence rates and Frequency rates, this

report is based on Incidence rates which are calculated on incidents per 200,000 man-hours.

The Summary of Occupational Incidents (SOI) is compiled annually from data volunteered by drilling contractors worldwide to the IADC ISP Program. During 2023, 71 contractors participated in the ISP representing a total of 377,694,438 million man-hours worked. Contractors striving for safety improvement by participating in the ISP program reported 966 Recordable incidents, 263 Lost Time incidents including 10 fatalities.

REGIONAL REPORTING

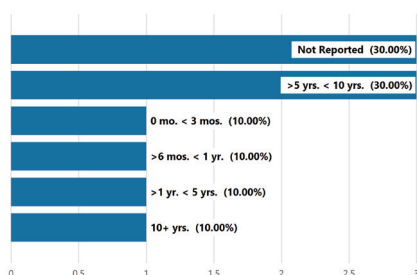
Safety data is compiled separately for Land and Offshore operations for nine geographic regions. This report is not designed to measure region against region, but to provide companies operating within each region tools to measure their efforts and make improvement in their safety efforts year over year.

INDUSTRY IMPROVEMENT

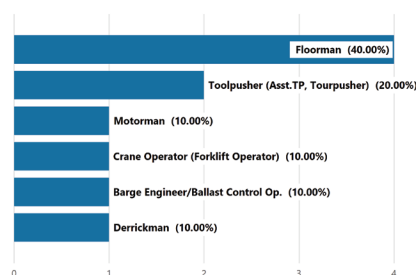
2023 saw the drilling industry's worldwide Lost Time Incidence Rate decrease to 0.14 from the 2022 reported rate of 0.20. The 2023 Recordable Incident rate decreased to 0.51 from the 2022 reported rate of 0.66. The oil and gas well drilling industry's efforts towards safety have resulted in the industry's occupational LTI Incidence rate to improve from more than 14.00 in 1963 to 0.14 in 2023, which is a 99% improvement.

Fatalities

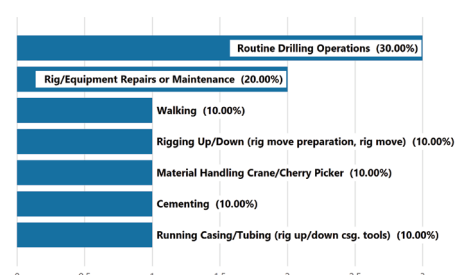
By Time in Service



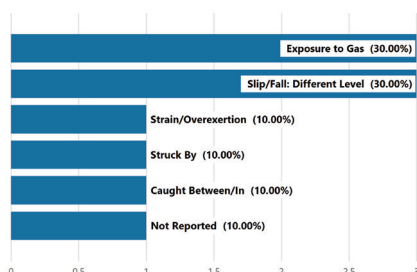
By Occupation



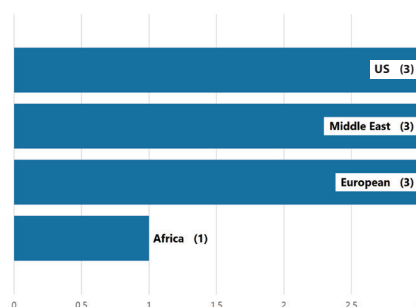
By Activity



By Type



By Region



FATALITIES

In 2023 the industry's fatalities decreased to 10 incidents compared to 15 incidents reported in 2022. According to the data reported in 2023, three (3) fatalities occurred to employees who had between five and ten years of service with the company. Three (3) more fatalities occurred to employees who had less than five years of service. Three (3) fatalities occurred during routine drilling operations. Four (4) of the fatalities occurred to floormen.

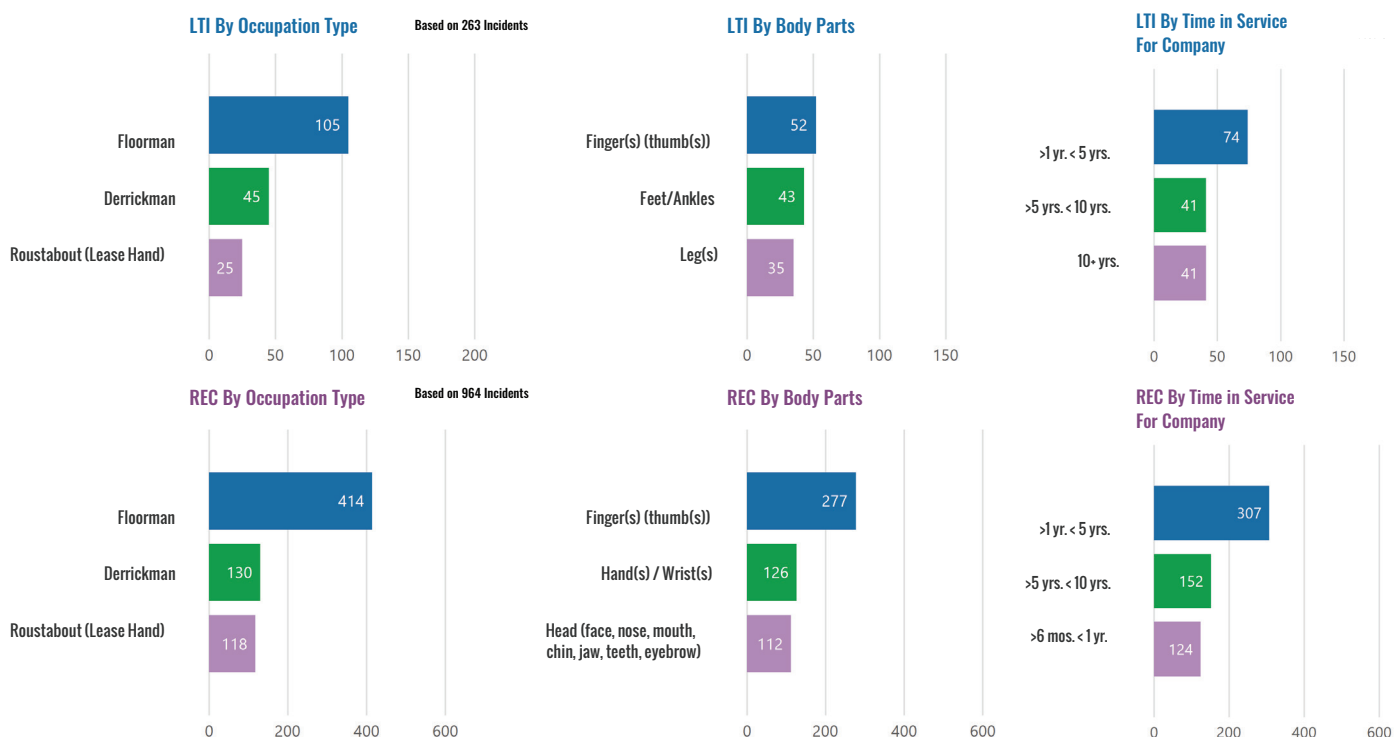
Regional Summaries: Man-Hours vs Fatalities

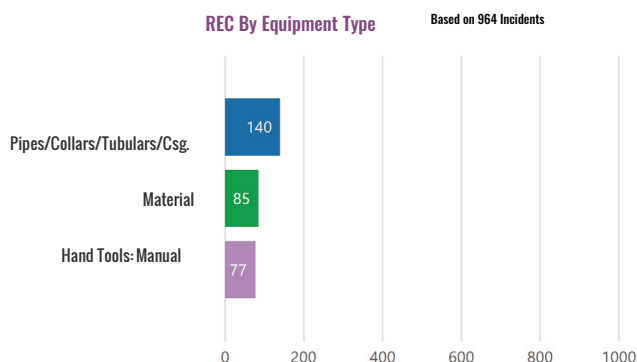
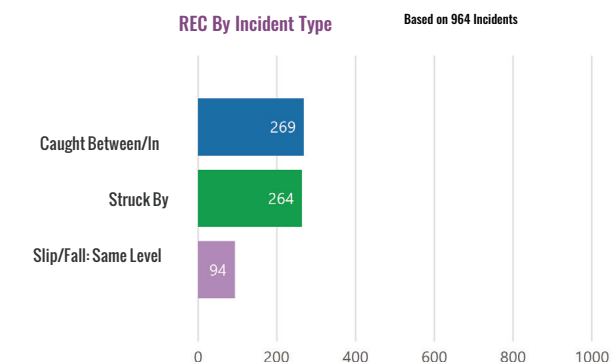
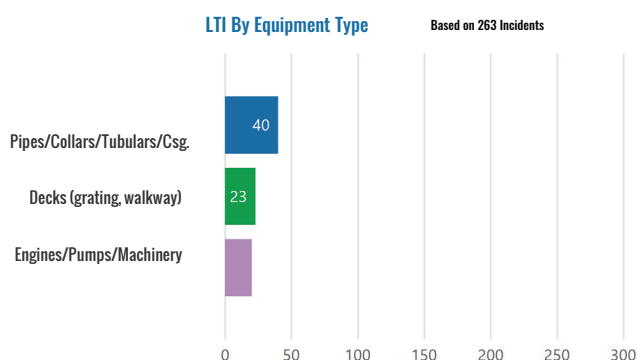
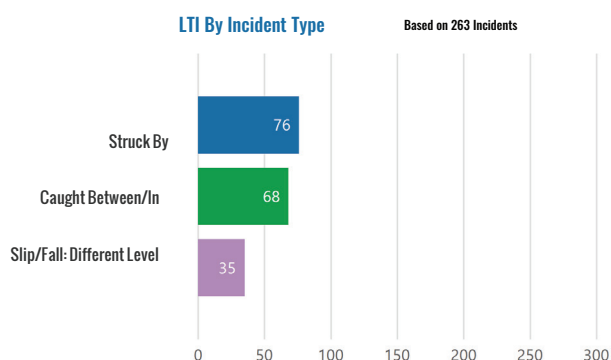
European Land and Offshore categories together worked nearly than 26 million man-hours in 2023 with three (3) fatalities. European offshore accounted for 21.6 million man-hours with three (3) fatalities while European Land had 4.2 million man-hours and zero (0) fatalities. US Land and Offshore contractors together worked more than 61.5 million man-hours with three (3) fatalities. US Land had 49.5 million man-hours with three (3) fatalities while US water had 17 million man-hours and zero (0) fatalities. Canadian contractors accounted for 8.8 million man-hours and zero (0) fatalities. Canadian Land had 8.2 million man-hours and zero (0) fatalities while offshore had 612,631 man-hours and no fatalities. Central America and Caribbean accounted for 6.3 million man-hours with zero (0) fatalities. Land operations reported 643,737 man-hours and no fatalities while water operations reported just over 5.7 million man-hours and no fatalities. Africa combined land and offshore accounted for 46 million man-hours with one (1) fatality. Africa Land accounted for 30.6 million man-hours with one (1) fatality while Africa Water had 15.4 million man-

hours and no fatalities. The Middle East region accounted for 169.6 million man-hours with three (3) fatalities. The Land division had 106.1 million man-hours and two (2) fatalities while there were 63.5 million man-hours and one (1) fatality for the offshore division. Asia Pacific accounted for 27.1 million man-hours and no fatalities. Water had 21.6 million man-hours and no fatalities while the Land Division had 5.5 million man-hours with no fatalities. South America made up 21.8 million man-hours with no fatalities. Land had 9.8 million man-hours and no fatalities while Water had 12 million man-hours and no fatalities. Australasia made up 5.7 million man-hours with no fatalities. Land had 3.2 million man-hours with no fatalities while offshore had 2.5 million man-hours with no fatalities.

Lost Time and Recordable Incidents by Region

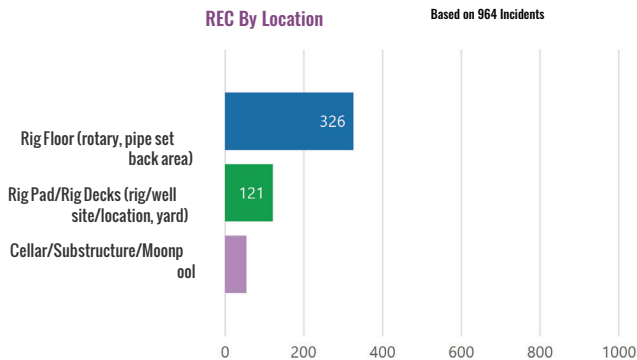
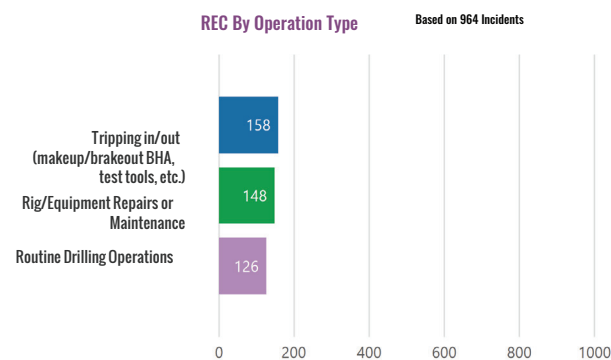
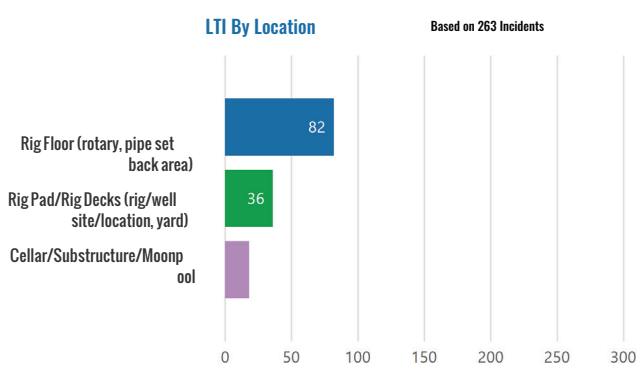
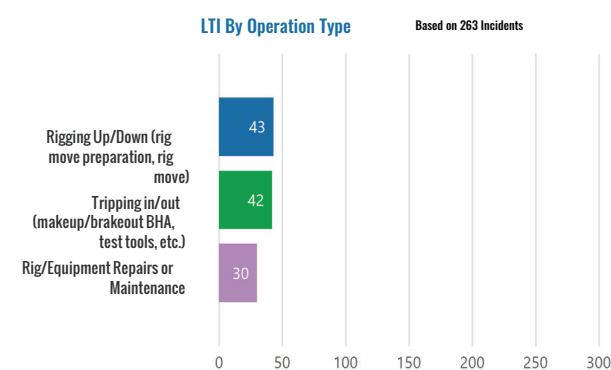
Lost time incidents among US Land workers decreased from 0.60 in 2022 to 0.44 in 2023. The Total Recordable Incidence Rate improved from 1.90 in 2022 to 1.53 in 2023. US Offshore LTI Incidence rate decreased from 0.16 in 2022 to 0.11 in 2023 and Recordable Incidence Rate improved from 0.75 in 2022 to 0.70 in 2023. European Land workers saw their LTI rate improve from 0.41 for 2022 to 0.33 for 2023. The Recordable Incidence Rate worsened from 0.51 in 2022 to 0.52 in 2023. European Offshore workers LTI rate stayed the same at 0.12 in 2023 while the Recordable Incidence rate improved from 0.55 in 2022 to 0.52 in 2023. Canada Land had a 2022 LTI rate of 0.12 which worsened to 0.27 for 2023, while their Recordable Incidence rate of 1.08 in 2022 dropped to 0.88 for 2023. Canada Offshore





workers saw their 2022 LTI rate of 0.23 improve to 0.00 for 2023. The Recordable Incidence rate of 0.70 for 2022 also dropped to 0.00 for 2023. Central America and Caribbean Land 2022 LTI rate of 0.32 decreased to 0.00 for 2023. Their 2022 Recordable Incidence rate of 1.28 decreased to 0.93 for 2023. Central America and Caribbean Water 2022 LTI Rate of 0.28 improved to 0.21 in 2023. The Recordable rate of 0.80 for 2022 improved

to 0.49 for 2023. Africa Land LTI rate decreased from 0.44 in 2022 to 0.36 in 2023. The Recordable Incidence rate decreased from 1.45 in 2022 to 1.22 in 2023. Africa Water LTI rate decreased from 0.06 in 2022 to 0.04 in 2023 and their Recordable Incidence rate decreased from 0.17 in 2022 to 0.12 in 2023. Middle East Land LTI rate improved from 0.07 in 2022 to 0.05 in 2023. Their 2022 Recordable Incidence rate of 0.22 improved to 0.16



in 2023. Middle East Water LTI rate improved from 0.05 in 2022 to 0.04 in 2023 and their Recordable Incidence rate decreased from 0.20 in 2022 to 0.15 in 2023. Asia Pacific Land LTI rate decreased from 0.03 in 2022 to 0.00 in 2023, while their Recordable Incidence rate decreased from 0.23 in 2022 to 0.11 in 2023. Asia Pacific Water 2022 LTI rate of 0.04 increased to 0.05 for 2023 and their Recordable Incidence rate worsened from 0.14 in 2022 to 0.22 in 2023. In 2022, South America Land had an LTI rate of 0.12 which improved to 0.04 in 2023 and a 2022 Recordable rate of 0.47 which improved to 0.25 in 2023. South America Water 2022 LTI rate was 0.11 which improved to 0.07 in 2023 and a 2022 Recordable rate of 0.49 that improved to 0.27 in 2023. Australasia Land had a 2022 LTI rate of 0.31 which increased to 0.63 for 2023 and Recordable incident rate of 0.84 for 2022 which increased to 1.06 for 2023. Australasia Water had a 2022 LTI rate of 0.07 which increased to 0.32 for 2023 and a 2022 Recordable incident rate of 0.96 which increased to 1.38 for 2023.

Greatest Risks

Incidents occur in many places around the rig and to all crewmembers. Many types of equipment and rig operations are involved in incidents and all parts of the body are at risk. Incident data are analyzed by occupation, body part, incident type, equipment type, operation, location time in service and time of day the incident occurred.

Data from the IADC ISP show that of all the categories, as with previous years, the Floorman position incurred the largest percentage of Lost Time and Recordable injuries.

Fingers remained the most vulnerable part of the body.

Caught Between and Struck By accounted for the most Lost Time Injuries and Total Recordable injuries.

Pipes/Collars/Tubulars/Casing is the equipment responsible for the most Lost Time and Recordable incidents.

Tripping In/Out and Rigging Up/Down accounted for the most Lost Time and Recordable incidents.

The most Lost Time and Recordable injuries in drilling operations occurred on the rig floor.

Lost Time and Recordable injuries based on Time in Service were led by employees with between one to five years of service.

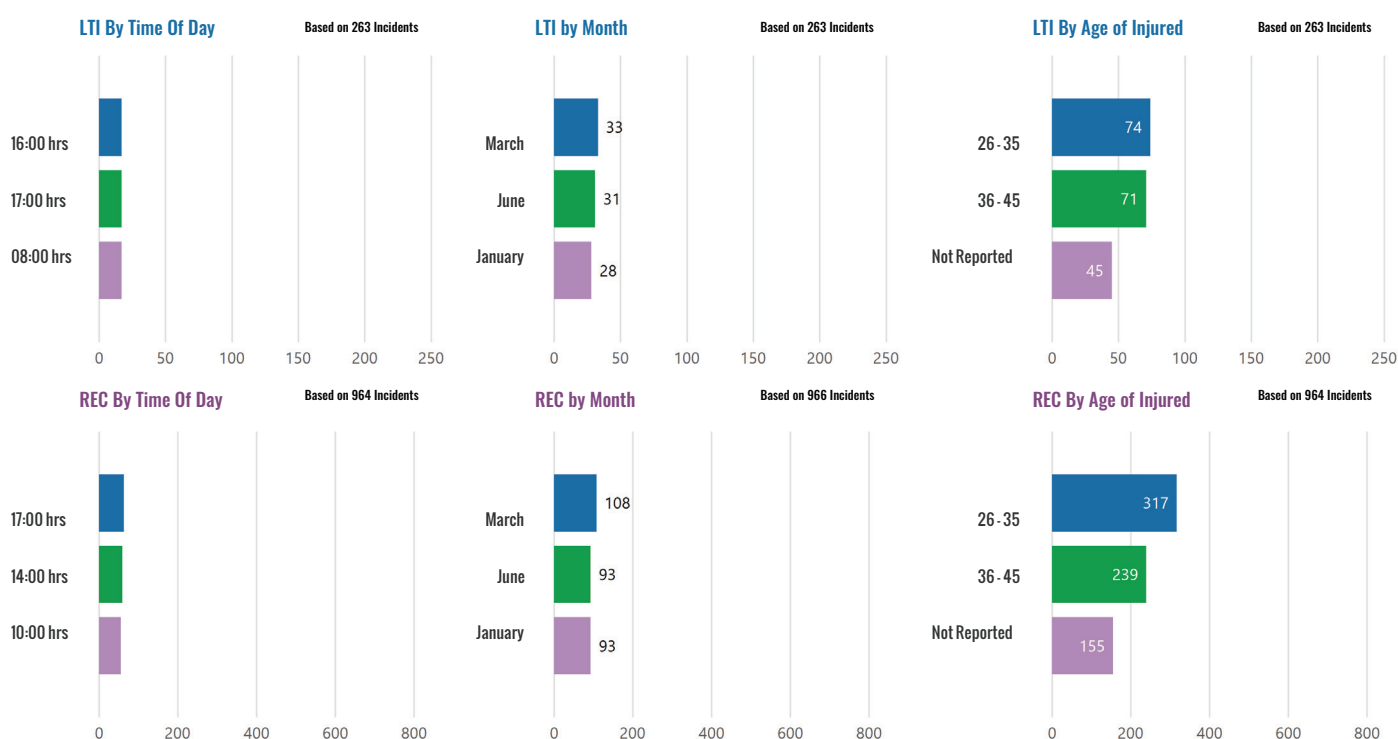
The Most LTI and Recordable incidents occurred between 09:00-17:00 hours.

March accounted for the most Lost Time and Recordable incidents.

The 26 – 35 year age range accounted for the most Lost Time and Recordable incidents.

Conclusion

Activity in most sectors of the industry increased in 2023. Overall, Lost Time incidents rates and Recordable incident rates decreased slightly in 2023 as compared to 2022, despite an overall uptick in rig activity.



2023 ISP Program Industry Totals

2023 Final Report (Table 1)

January – December (Note: Figures are unaudited)

CATEGORY	TOTAL MAN-HOURS	TOTAL MTOs	TOTAL RWCs	TOTAL LTIs	TOTAL FTLs	TOTAL RCRD	LTI INCD. RATE	LTI FREQ. RATE	DART INCD. RATE	DART FREQ. RATE	RCRD INCD. RATE	RCRD FREQ. RATE
US - Land	49,512,314	128	144	105	3	380	0.44	2.18	1.02	5.09	1.53	7.67
US - Water	17,088,419	25	26	9	0	60	0.11	0.53	0.41	2.05	0.70	3.51
Canada - Land	8,199,194	3	22	11	0	36	0.27	1.34	0.80	4.02	0.88	4.39
Canada - Water	612,631	0	0	0	0	0	0.00	0.00	0.00	0.00	0.00	0.00
Central America & Caribbean - Land	643,737	1	2	0	0	3	0.00	0.00	0.62	3.11	0.93	4.66
Central America & Caribbean - Water	5,718,072	5	3	6	0	14	0.21	1.05	0.31	1.57	0.49	2.45
European - Land	4,213,630	3	1	7	0	11	0.33	1.66	0.38	1.90	0.52	2.61
European - Water	21,641,279	14	17	10	3	44	0.12	0.60	0.28	1.39	0.41	2.03
Africa - Land	30,566,010	32	100	54	1	187	0.36	1.80	1.01	5.07	1.22	6.12
Africa - Water	15,394,241	2	4	3	0	9	0.04	0.19	0.09	0.45	0.12	0.58
Middle East - Land	106,086,487	25	35	22	2	84	0.05	0.23	0.11	0.56	0.16	0.79
Middle East - Water	63,478,475	15	22	11	1	49	0.04	0.19	0.11	0.54	0.15	0.77
Asia Pacific - Land	5,479,821	3	0	0	0	3	0.00	0.00	0.00	0.00	0.11	0.55
Asia Pacific - Water	21,636,581	6	13	5	0	24	0.05	0.23	0.17	0.83	0.22	1.11
South America Land	9,777,082	6	4	2	0	12	0.04	0.20	0.12	0.61	0.25	1.23
South America Water	11,985,267	5	7	4	0	16	0.07	0.33	0.18	0.92	0.27	1.33
Australasia – Land	3,194,372	4	3	10	0	17	0.63	3.13	0.81	4.07	1.06	5.32
Australasia – Water	2,466,826	4	9	4	0	17	0.32	1.62	1.05	5.27	1.38	6.89
US Combined	66,600,733	153	170	114	3	440	0.35	1.76	0.86	4.31	1.32	6.61
Canada Combined	8,811,825	3	22	11	0	36	0.25	1.25	0.75	3.74	0.82	4.09
Central America & Caribbean Com.	6,361,809	6	5	6	0	17	0.19	0.94	0.35	1.73	0.53	2.67
European Combined	25,854,909	17	18	17	3	55	0.15	0.77	0.29	1.47	0.43	2.13
Africa Combined	45,960,251	34	104	57	1	196	0.25	1.26	0.70	3.52	0.85	4.26
Middle East Combined	169,564,962	40	57	33	3	133	0.04	0.21	0.11	0.55	0.16	0.78
Asia Pacific Combined	27,116,402	9	13	5	0	27	0.04	0.18	0.13	0.66	0.20	1.00
South America Combined	21,762,349	11	11	6	0	28	0.06	0.28	0.16	0.78	0.26	1.29
Australasia Combined	5,661,198	8	12	14	0	34	0.49	2.47	0.92	4.59	1.20	6.01
INDUSTRY TOTAL	377,694,438	281	412	263	10	966	0.14	0.72	0.36	1.81	0.51	2.56

MTO=Medical Treatment Only	INCD = Incidence Rate (200,000 man-hours):	LTI INCD Rate = (LTI s+ FTLs) * 200000 / Total Man-hours DART INCD Rate = (RWC + LTI + FTL) * 200000 / Total Man-hours RCRD INCD Rate = (MTOs + RWCs + LTIs + FTLs) * 200000 / Total Man-hours
RWC =Restricted Work Case		
LTI =Lost Time Incident	FREQ = Frequency Rate (1,000,000 man-hours):	LTI FREQ Rate = (LTI s+ FTLs) * 1000000 / Total Man-hours DART FREQ Rate = (RWC + LTI + FTL) * 1000000 / Total Man-hours RCRD FREQ Rate = (MTOs + RWCs + LTIs + FTLs) * 1000000 / Total Man-hours
FTL =Fatalities		
RCRD =Total Recordables		

5 Year Summary Report (Table 2)

Lost Time and Total Recordable Incidence/Frequency Rate

CATEGORY	TYPE	2023		2022		2021		2020		2019	
		INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE
US Land	LTI:	0.44	2.18	0.61	3.04	0.42	2.11	0.28	1.39	0.48	2.42
	DART:	1.02	5.09	1.30	6.51	1.07	5.35	0.67	3.33	0.92	4.62
	RCRD:	1.53	7.67	1.89	9.45	1.53	7.64	1.01	5.05	1.51	7.53
US Water	LTI:	0.11	0.53	0.15	0.74	0.10	0.51	0.09	0.47	0.08	0.39
	DART:	0.41	2.05	0.36	1.80	0.43	2.14	0.32	1.59	0.34	1.71
	RCRD:	0.70	3.51	0.71	3.54	0.67	3.34	0.45	2.24	0.47	2.35
Canada Land	LTI:	0.27	1.34	0.08	0.42	0.15	0.75	0.55	2.73	0.41	2.05
	DART:	0.80	4.02	1.04	5.19	0.95	4.77	0.97	4.86	0.64	3.19
	RCRD:	0.88	4.39	1.04	5.19	1.05	5.27	1.15	5.77	1.32	6.62
Canada Water	LTI:	0.00	0.00	0.23	1.17	0.00	0.00	0.00	0.00	0.14	0.69
	DART:	0.00	0.00	0.70	3.52	0.56	2.81	1.19	5.96	0.14	0.69
	RCRD:	0.00	0.00	0.70	3.52	0.56	2.81	1.19	5.96	0.28	1.38
Central America & Caribbean Land	LTI:	0.00	0.00	0.32	1.60	1.30	6.49	1.00	5.02	0.25	1.25
	DART:	0.62	3.11	0.64	3.19	1.82	9.09	1.26	6.28	0.25	1.25
	RCRD:	0.93	4.66	1.28	6.38	2.08	10.39	1.26	6.28	1.25	6.25
Central America & Caribbean Water	LTI:	0.21	1.05	0.28	1.40	0.20	1.01	0.23	1.17	0.06	0.29
	DART:	0.31	1.57	0.52	2.62	0.24	1.18	0.38	1.91	0.47	2.33
	RCRD:	0.49	2.45	0.70	3.49	0.34	1.68	0.47	2.35	0.47	2.33
South America Land	LTI:	0.04	0.20	0.35	1.77	0.22	1.09	0.31	1.57	0.23	1.16
	DART:	0.12	0.61	0.46	2.28	0.31	1.53	0.31	1.57	0.41	2.07
	RCRD:	0.25	1.23	0.46	2.28	0.39	1.97	0.42	2.09	0.59	2.97
South America Water	LTI:	0.07	0.33	0.12	0.61	0.13	0.66	0.10	0.52	0.20	0.98
	DART:	0.18	0.92	0.33	1.65	0.25	1.24	0.21	1.05	0.32	1.58
	RCRD:	0.27	1.33	0.54	2.69	0.37	1.87	0.39	1.97	0.51	2.56
European Land	LTI:	0.33	1.66	0.44	2.21	0.36	1.82	0.34	1.71	0.44	2.18
	DART:	0.38	1.90	1.33	6.63	1.13	5.64	1.18	5.92	1.24	6.19
	RCRD:	0.52	2.61	1.45	7.23	1.35	6.76	1.48	7.39	1.55	7.73
European Water	LTI:	0.12	0.60	0.03	0.15	0.04	0.21	0.06	0.30	0.06	0.31
	DART:	0.28	1.39	0.11	0.53	0.06	0.31	0.18	0.89	0.18	0.88
	RCRD:	0.41	2.03	0.14	0.68	0.16	0.82	0.26	1.28	0.30	1.50
Africa Land	LTI:	0.36	1.80	0.07	0.36	0.07	0.37	0.07	0.37	0.07	0.34
	DART:	1.01	5.07	0.16	0.78	0.16	0.80	0.19	0.95	0.19	0.97
	RCRD:	1.22	6.12	0.22	1.10	0.23	1.14	0.29	1.47	0.33	1.64
Africa Water	LTI:	0.04	0.19	0.06	0.29	0.05	0.27	0.04	0.20	0.05	0.27
	DART:	0.09	0.45	0.13	0.65	0.15	0.76	0.11	0.56	0.22	1.10
	RCRD:	0.12	0.58	0.19	0.97	0.20	0.98	0.15	0.74	0.33	1.66
Middle East Land	LTI:	0.05	0.23	0.03	0.17	0.00	0.00	0.03	0.16	0.08	0.41
	DART:	0.11	0.56	0.13	0.67	0.03	0.16	0.06	0.32	0.08	0.41
	RCRD:	0.16	0.79	0.20	1.00	0.16	0.79	0.16	0.79	0.12	0.61
Middle East Water	LTI:	0.04	0.19	0.03	0.14	0.09	0.47	0.02	0.09	0.17	0.85
	DART:	0.11	0.54	0.06	0.32	0.15	0.77	0.05	0.26	0.22	1.08
	RCRD:	0.15	0.77	0.13	0.64	0.23	1.16	0.15	0.75	0.28	1.42
Asia Pacific Land	LTI:	0.00	0.00	0.07	0.35	0.20	1.01	0.09	0.44	0.16	0.80
	DART:	0.00	0.00	0.26	1.30	0.52	2.61	0.26	1.31	0.54	2.68
	RCRD:	0.11	0.55	0.38	1.89	0.72	3.62	0.35	1.75	0.79	3.93
Asia Pacific Water	LTI:	0.05	0.23	0.11	0.55	0.02	0.12	0.05	0.26	0.14	0.72
	DART:	0.17	0.83	0.24	1.18	0.12	0.58	0.05	0.26	0.21	1.03
	RCRD:	0.22	1.11	0.42	2.09	0.18	0.92	0.10	0.51	0.33	1.65
Australasia Land	LTI:	0.63	3.13	0.31	1.54	0.10	0.49	0.13	0.64	0.00	0.00
	DART:	0.81	4.07	0.46	2.30	0.10	0.49	0.26	1.28	0.37	1.86
	RCRD:	1.06	5.32	0.77	3.84	0.29	1.46	0.77	3.84	0.65	3.25
Australasia Water	LTI:	0.32	1.62	0.07	0.37	0.19	0.97	0.09	0.45	0.18	0.88
	DART:	1.05	5.27	0.37	1.84	0.78	3.90	0.54	2.68	0.26	1.31
	RCRD:	1.38	6.89	0.96	4.79	1.07	5.36	0.89	4.47	0.53	2.63
INDUSTRY TOTALS	LTI:	0.14	0.72	0.20	0.98	0.16	0.81	0.12	0.58	0.19	0.94
	DART:	0.36	1.81	0.48	2.38	0.42	2.08	0.30	1.49	0.41	2.07
	RCRD:	0.51	2.56	0.66	3.29	0.57	2.83	0.44	2.19	0.64	3.18

2023 - IADC Industry Totals (Table 3)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	217,672,647	160,021,791	377,694,438
TOTAL MEDICAL TREATMENT INCIDENTS	205	76	281
TOTAL RESTRICTED WORK INCIDENTS	311	101	412
TOTAL LOST TIME INCIDENTS	211	52	263
TOTAL FATALITIES	6	4	10
TOTAL RECORDABLES	733	233	966
MTO INCIDENCE RATE	0.19	0.09	0.15
RWC INCIDENCE RATE	0.29	0.13	0.22
LTI INCIDENCE RATE	0.20	0.07	0.14
LTI FREQUENCY RATE	1.00	0.35	0.72
DART INCIDENCE RATE	0.49	0.20	0.36
DART FREQUENCY RATE	2.43	0.98	1.81
RECORDABLE INCIDENCE RATE	0.67	0.29	0.51
RECORDABLE FREQUENCY RATE	3.37	1.46	2.56

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

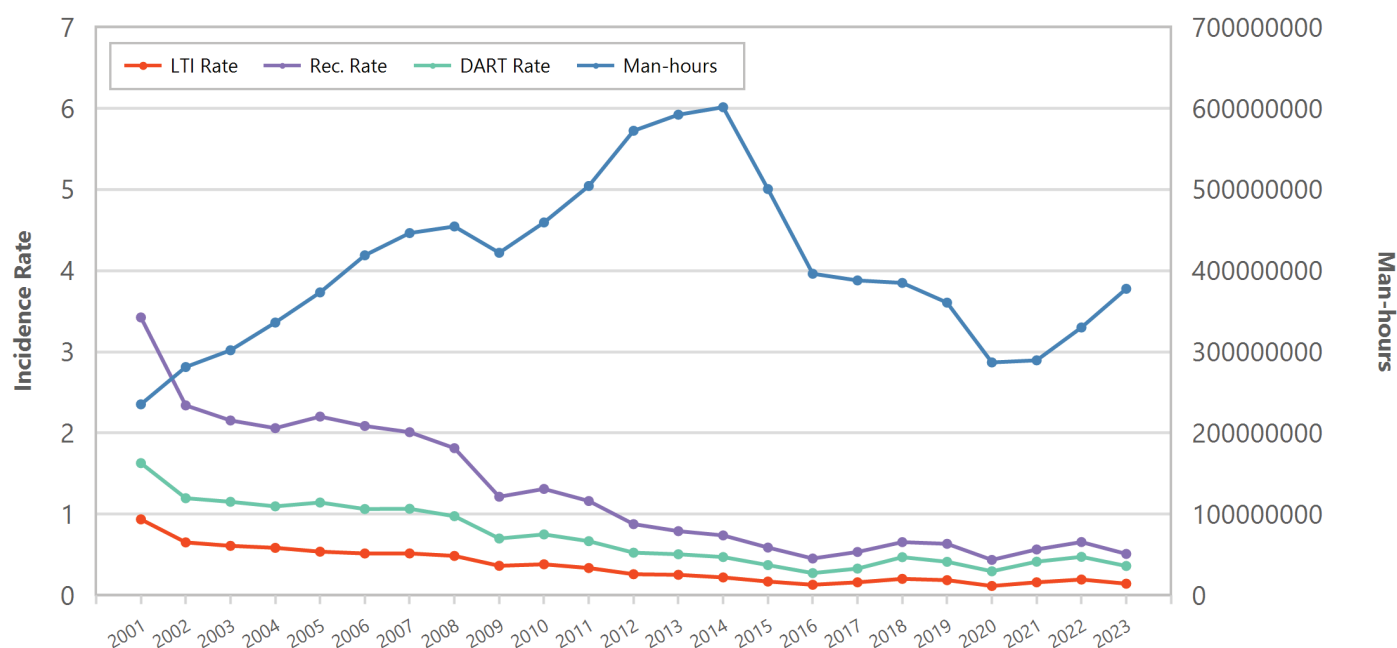
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

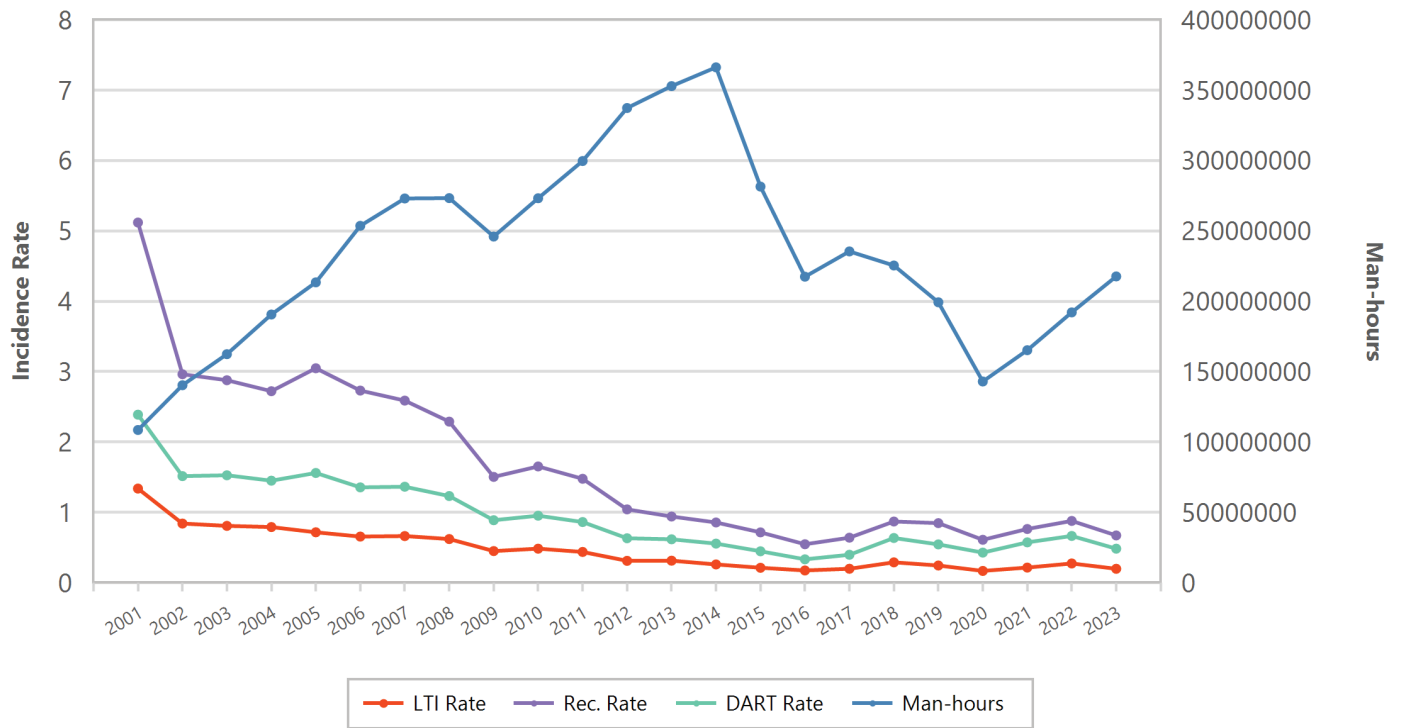
Number of participating companies: 71 – Total; 48 – Land; 40 – Water

Please note, some companies participate in both categories.

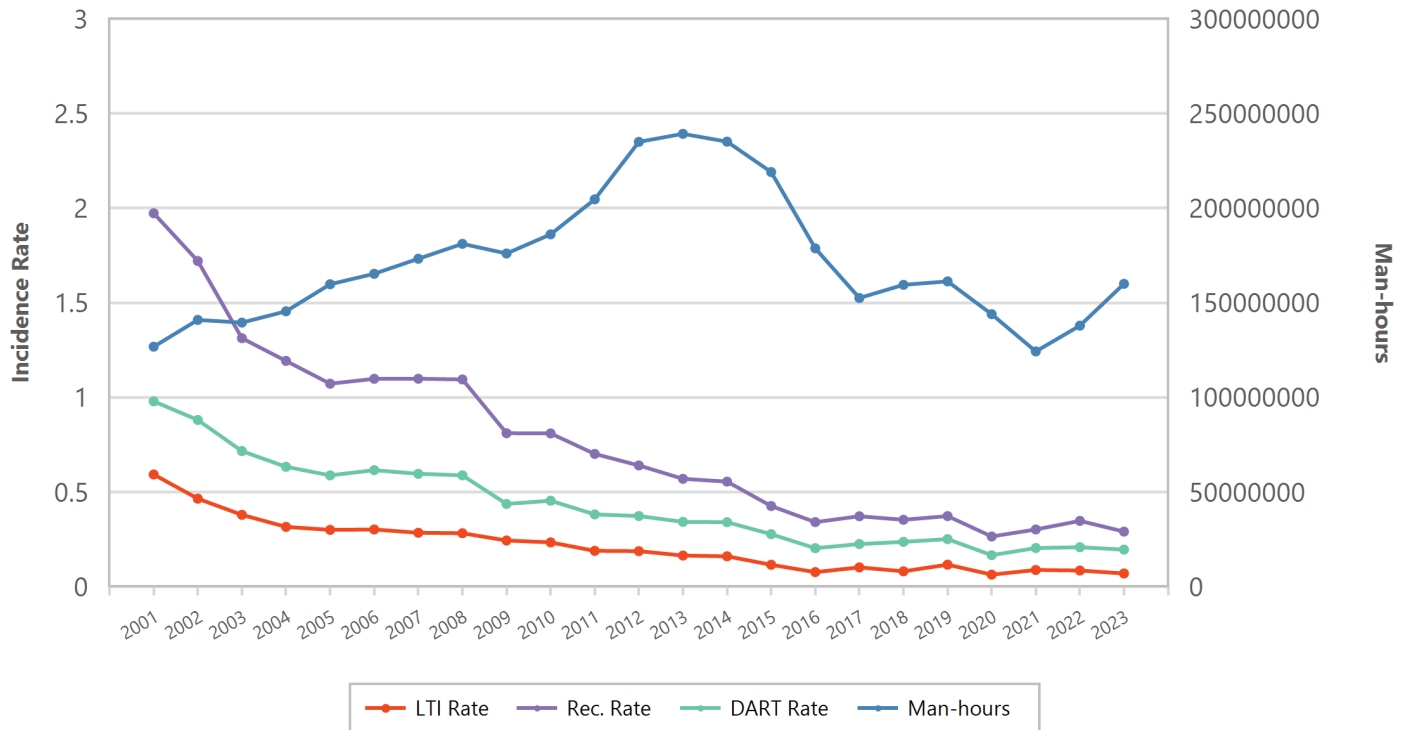
Total Industry LTI & Recordable Incidence Rates vs Man-hours (Figure 1)



Total Industry Land LTI & Recordable Incidence Rates vs Man-hours (Figure 2)



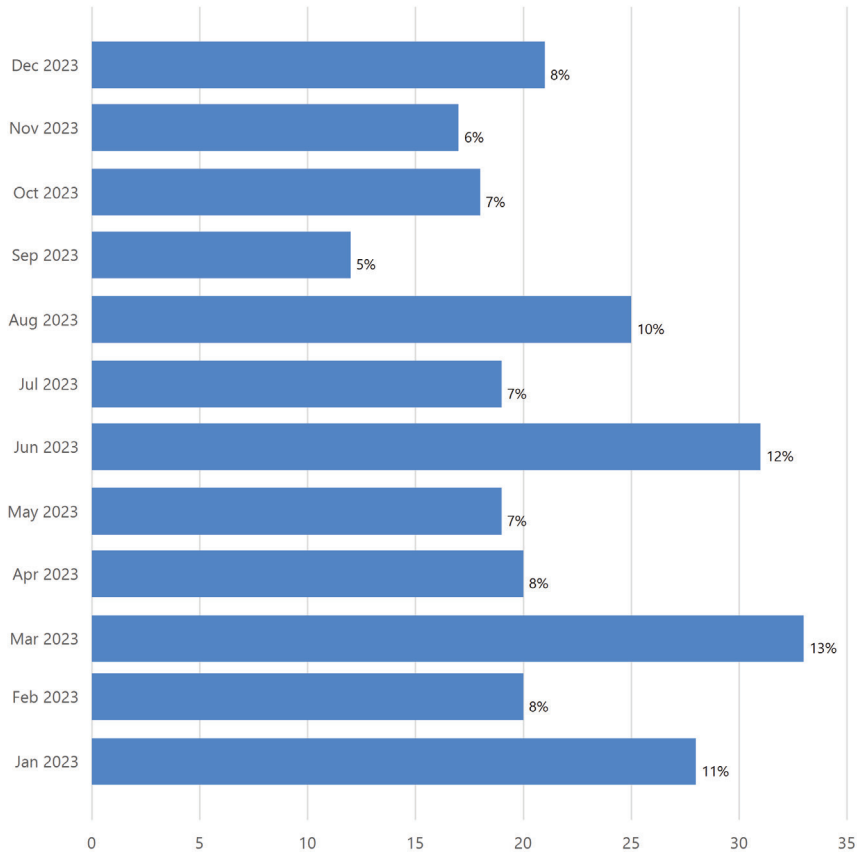
Total Industry Water LTI & Recordable Incidence Rates vs Man-hours (Figure 3)



IADC 2023 Total Industry Charts

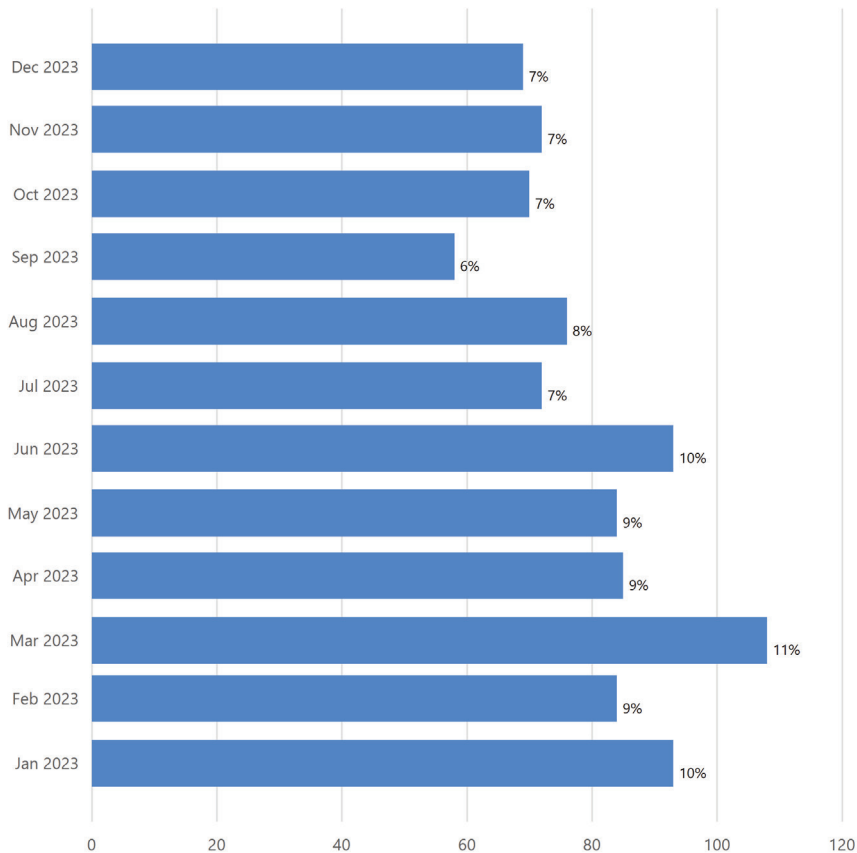
Total Industry Lost Time Incidents by Month (Chart 1)

Based on 263 Incidents

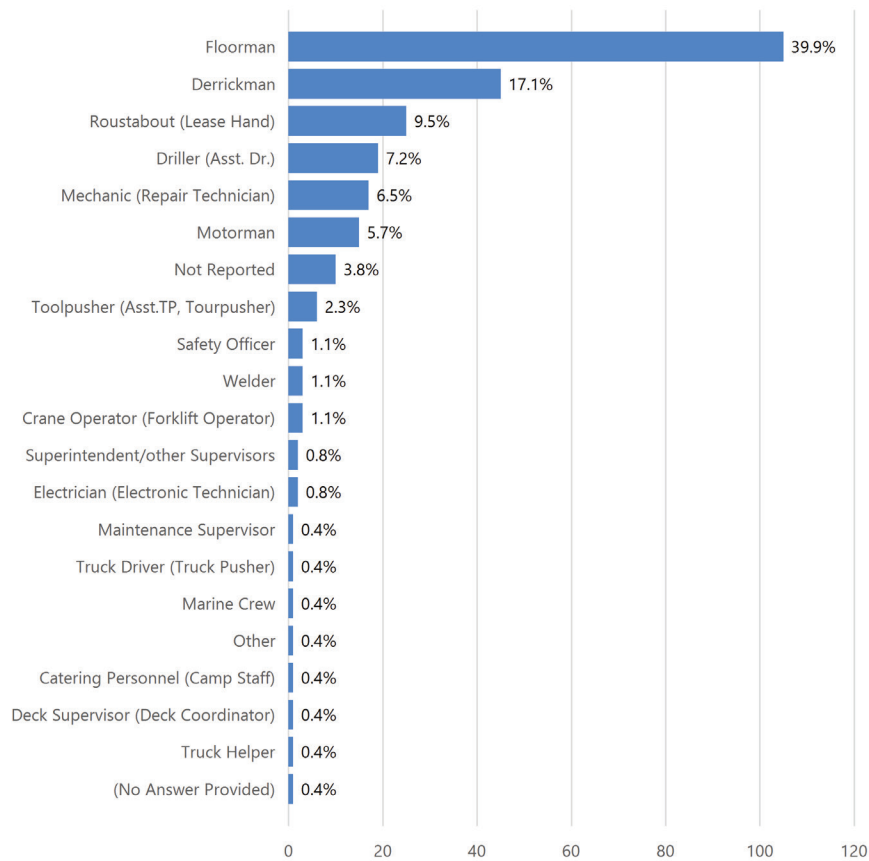


Total Industry Recordable Incidents by Month (Chart 2)

Based on 964 Incidents

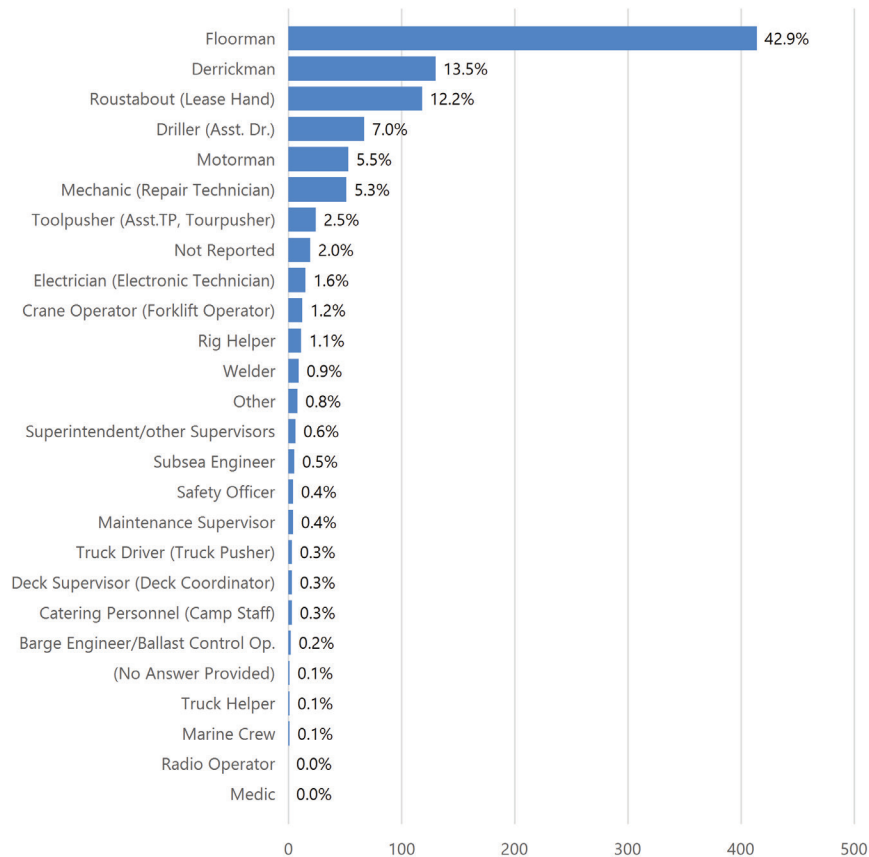


SUMMARY OF OCCUPATIONAL INCIDENTS



Total Industry Lost Time Incidents by Occupation (Chart 3)

Based on 263 Incidents

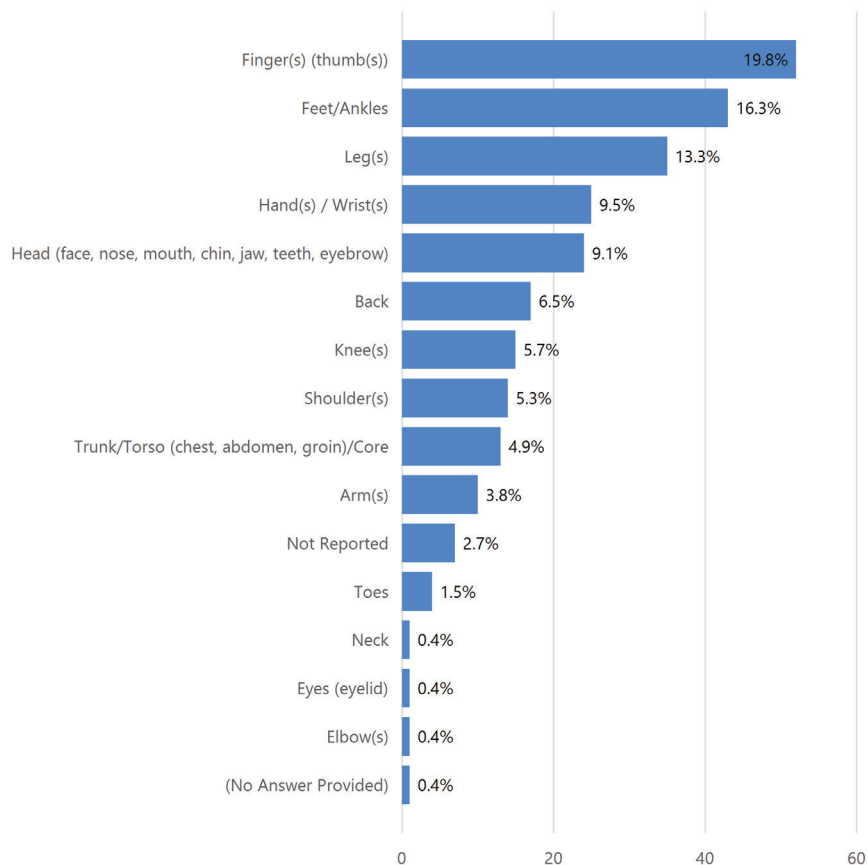


Total Industry Recordable Incidents by Occupation (Chart 4)

Based on 964 Incidents

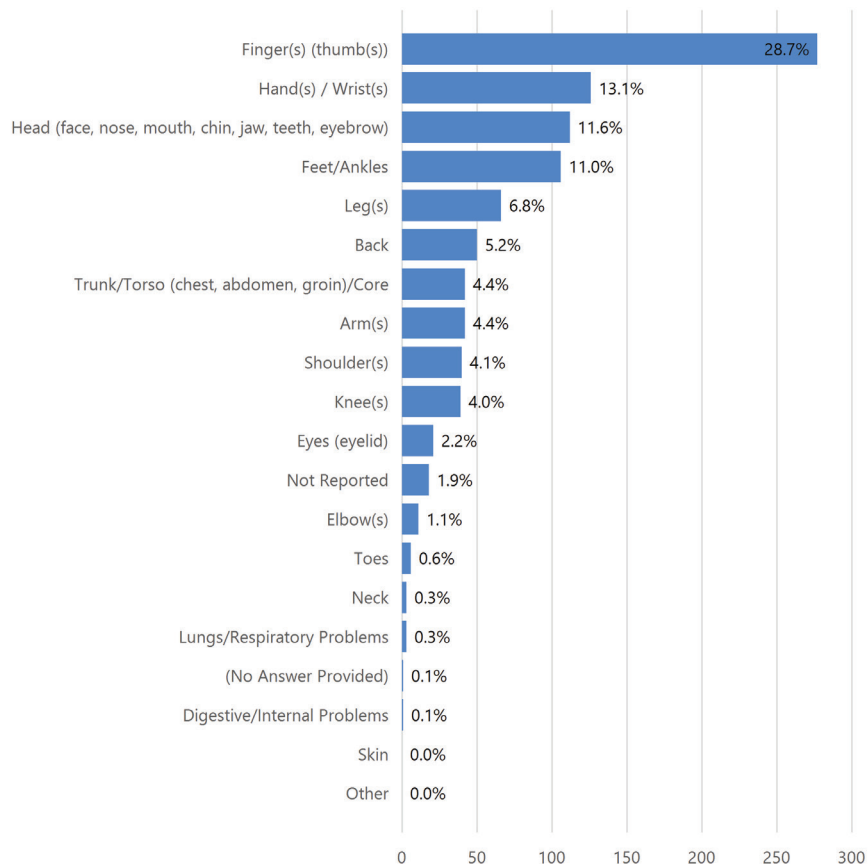
Total Industry Lost Time Incidents by Body Part (Chart 5)

Based
on 263
Incidents



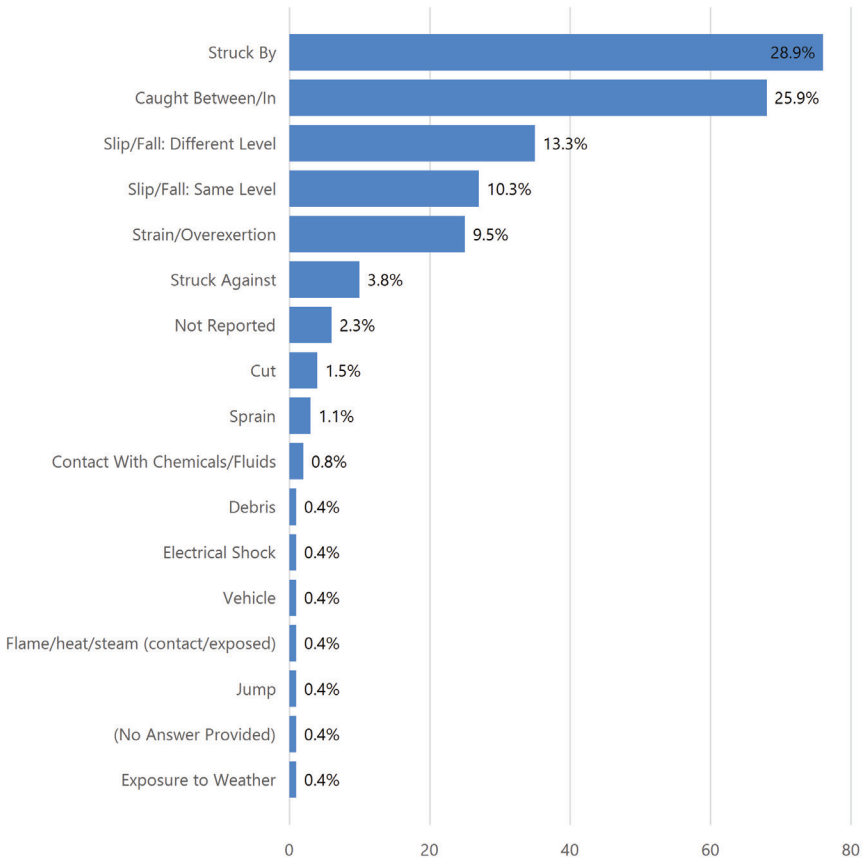
Total Industry Recordable Incidents by Body Part (Chart 6)

Based
on 964
Incidents



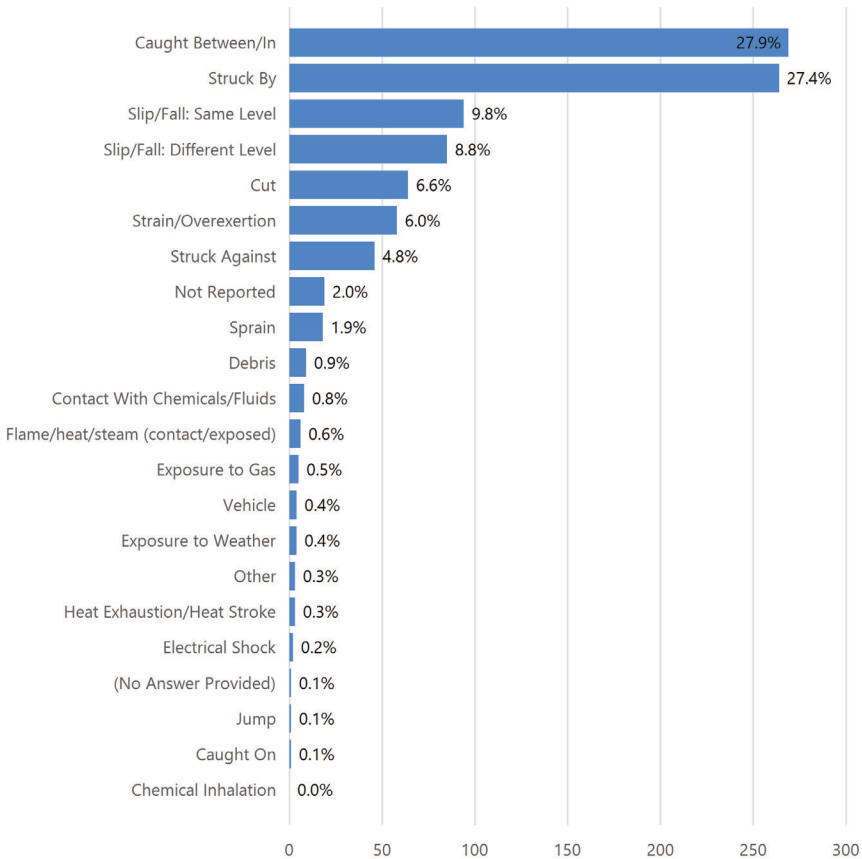
**Total Industry Lost Time
Incidents by Incident Type
(Chart 7)**

Based
on 263
Incidents



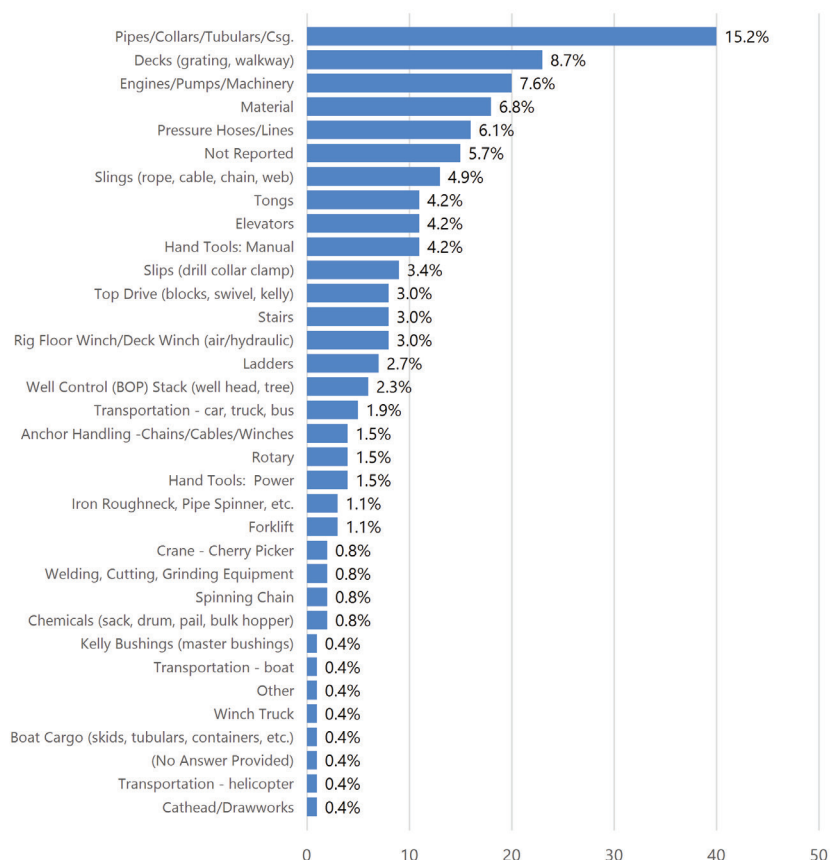
**Total Industry Recordable
Incidents by Incident Type
(Chart 8)**

Based
on 964
Incidents



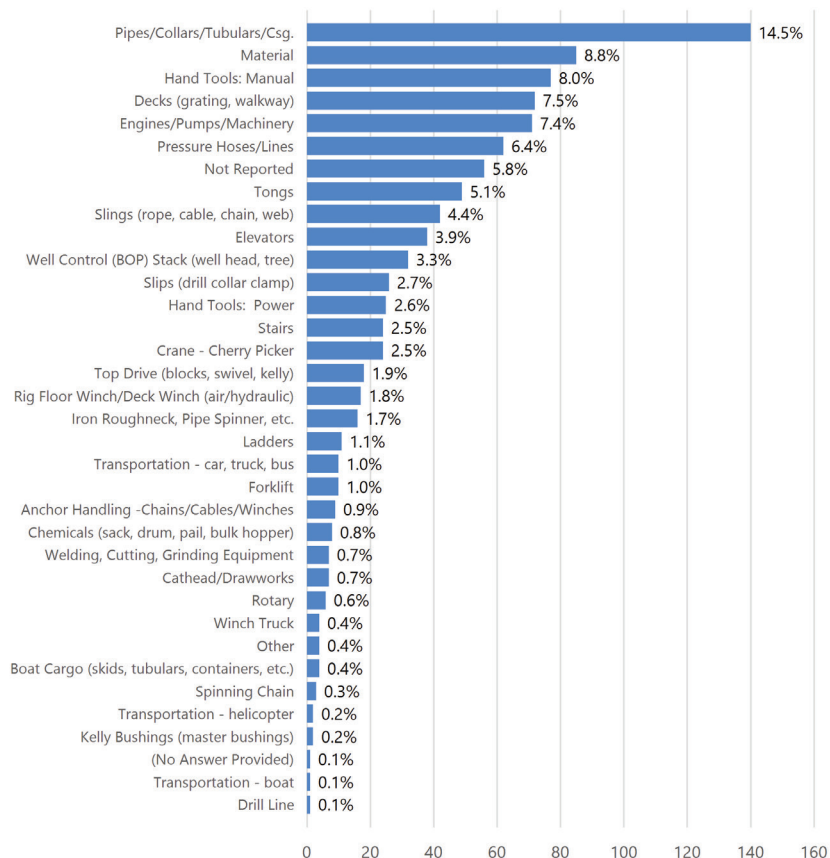
Total Industry Lost Time Incidents by Equipment (Chart 9)

Based
on 263
Incidents

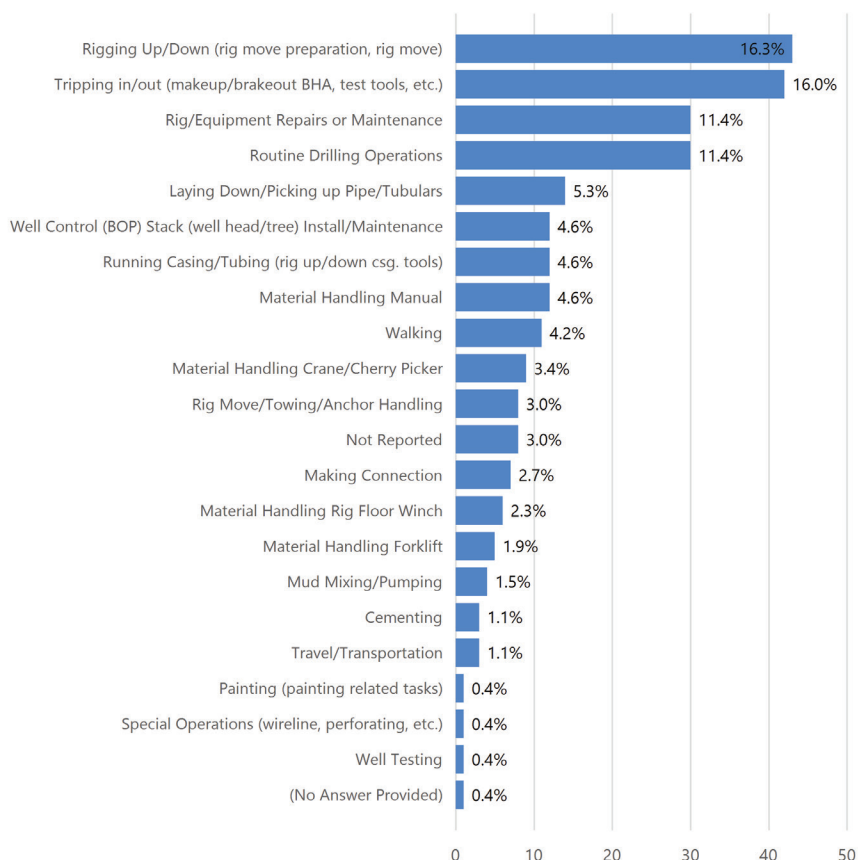


Total Industry Recordable Incidents by Equipment (Chart 10)

Based
on 964
Incidents

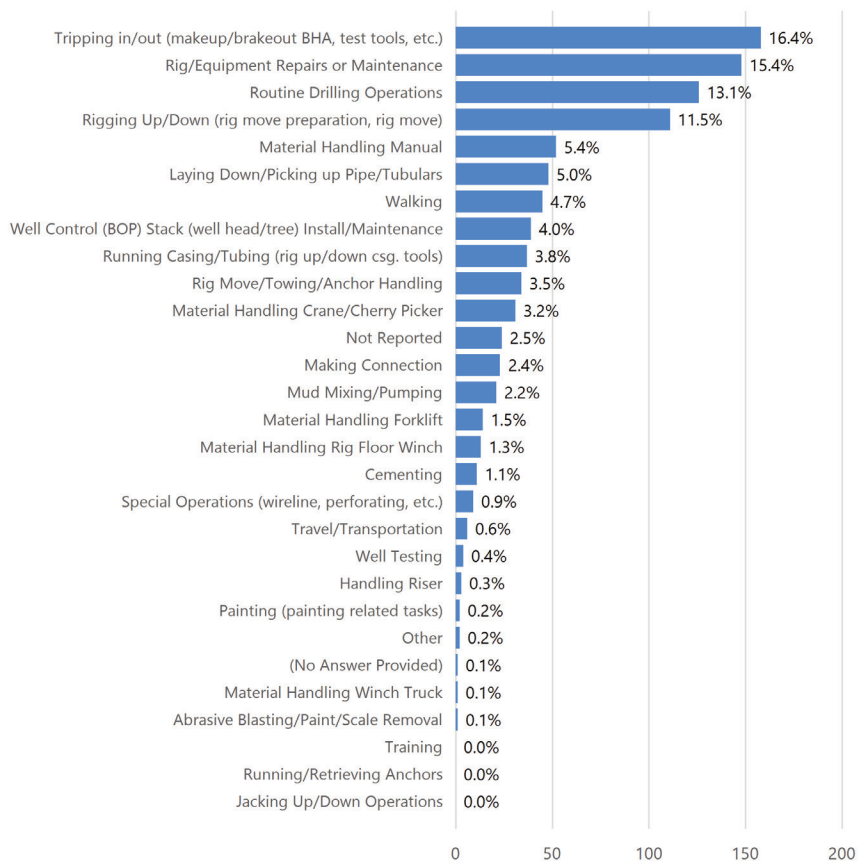


SUMMARY OF OCCUPATIONAL INCIDENTS



Total Industry Lost Time Incidents by Operation (Chart 11)

Based on 263 Incidents

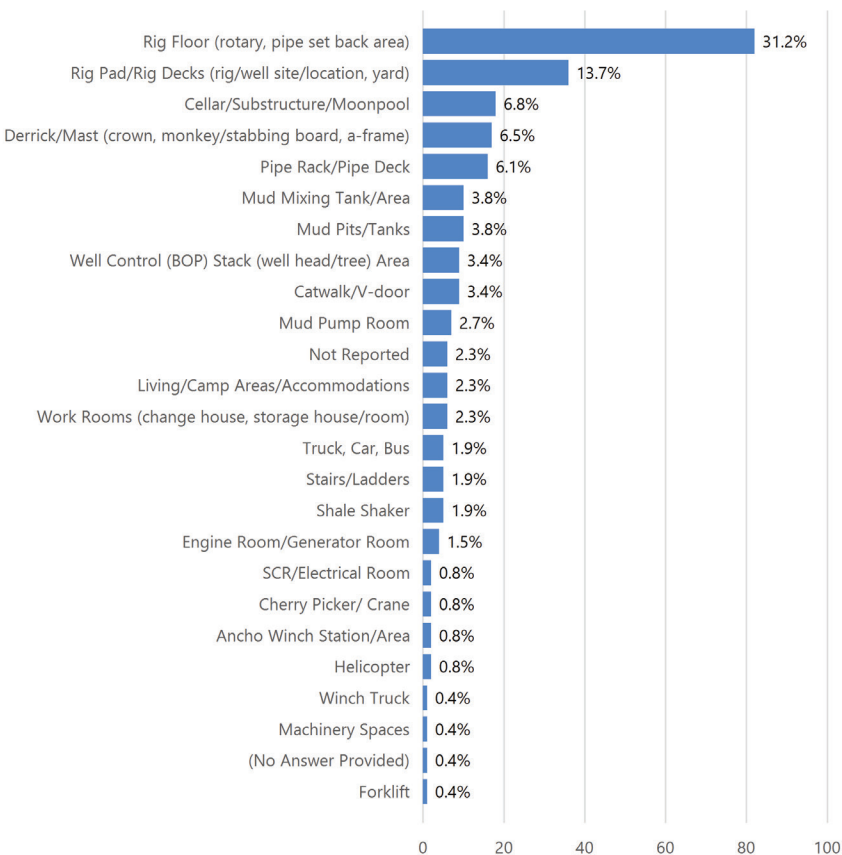


Total Industry Recordable Incidents by Operation (Chart 12)

Based on 964 Incidents

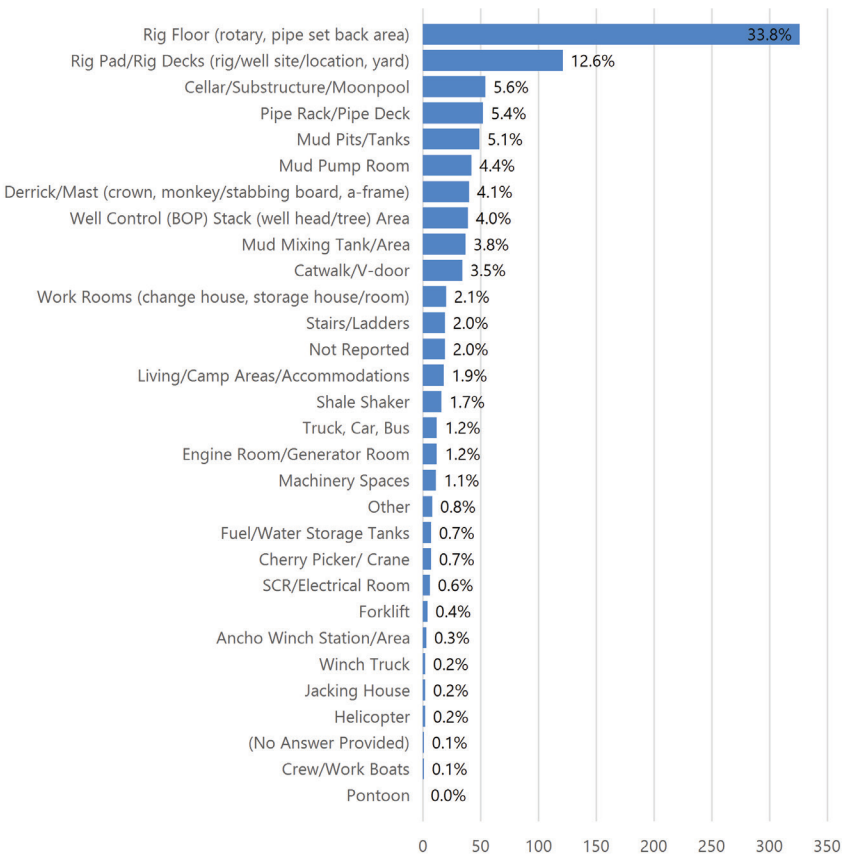
Total Industry Lost Time Incidents by Location (Chart 13)

Based
on 263
Incidents



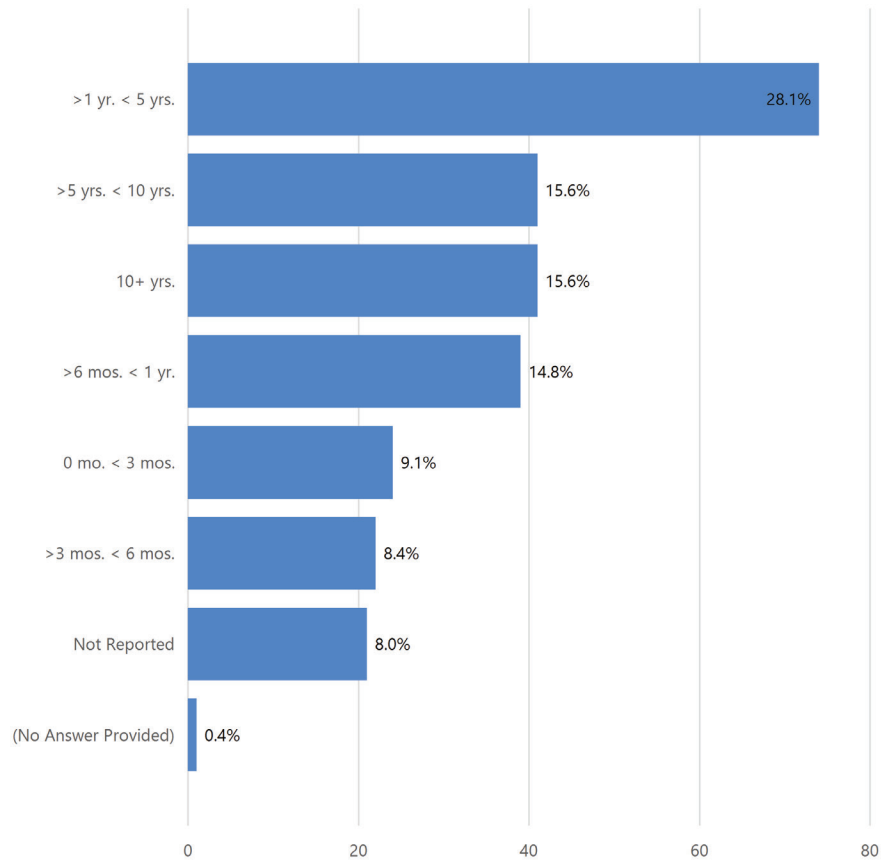
Total Industry Recordable Incidents by Location (Chart 14)

Based
on 964
Incidents



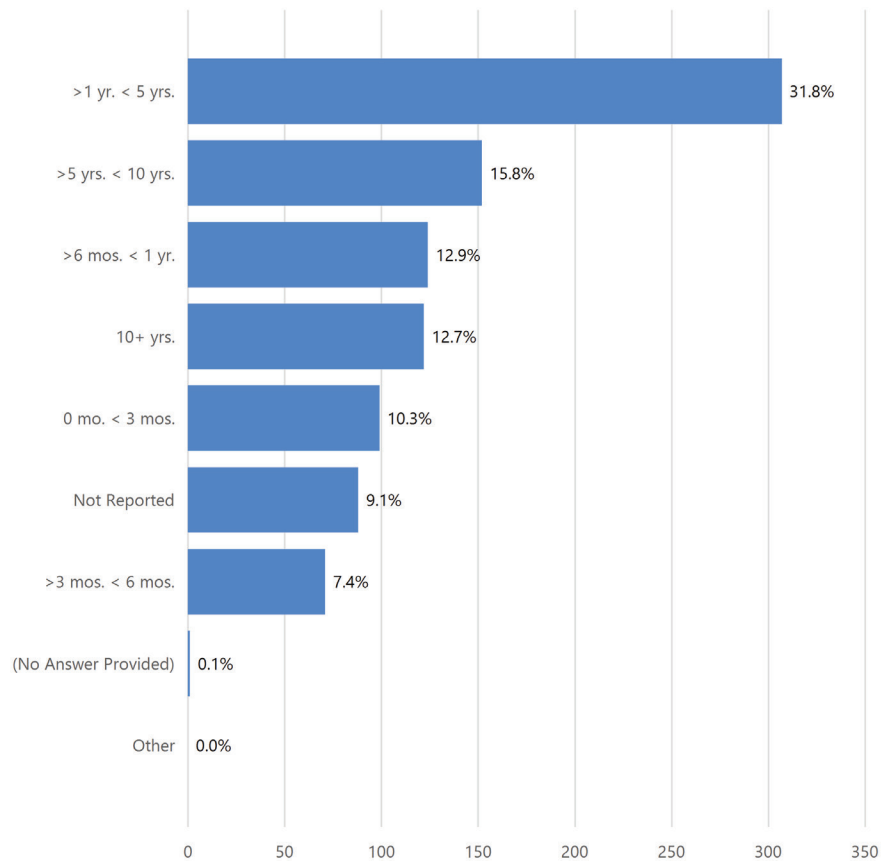
**Total Industry Lost Time
Incidents by Time in Service
(Chart 15)**

Based
on 263
Incidents



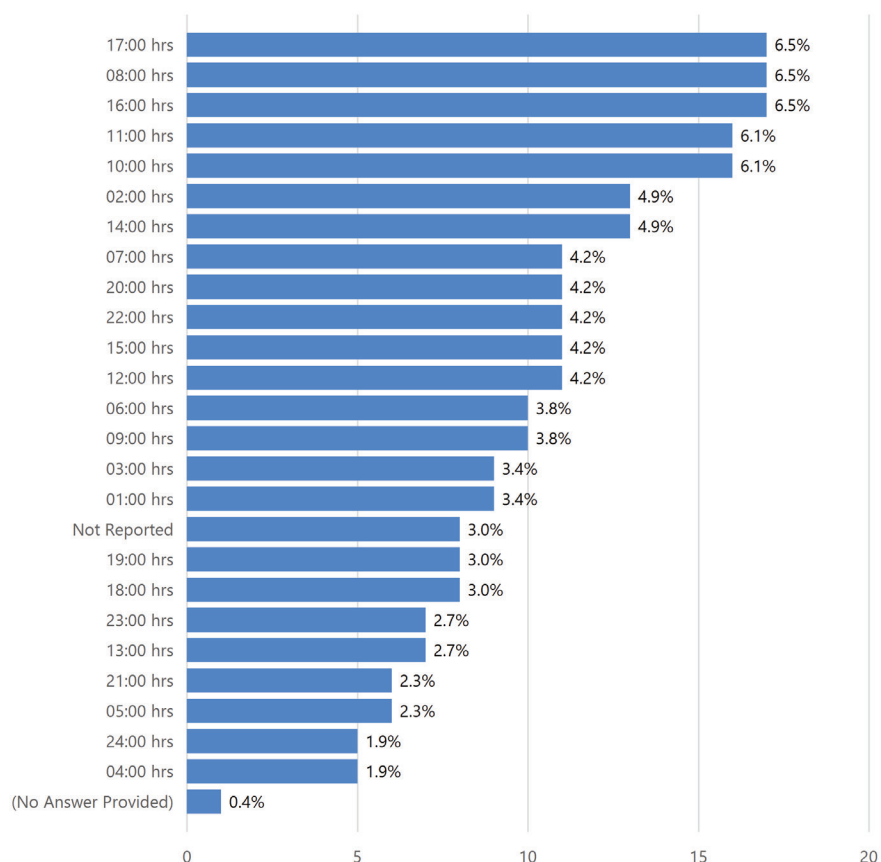
**Total Industry Recordable
Incidents by Time in Service
(Chart 16)**

Based
on 964
Incidents



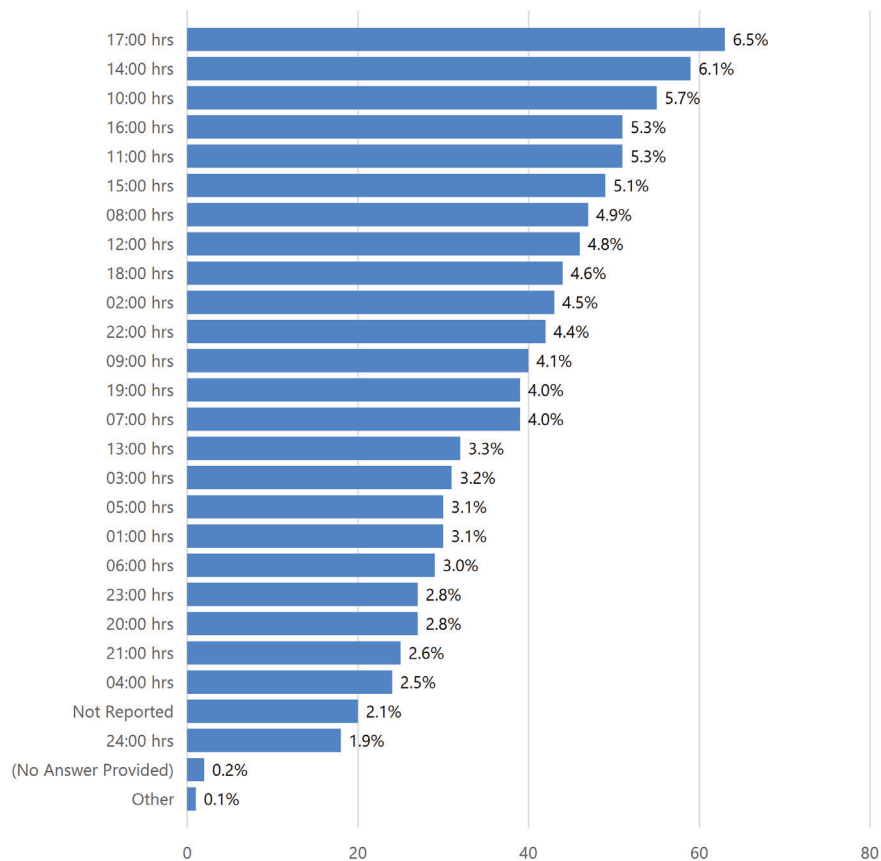
Total Industry Lost Time Incidents by Time of Day (Chart 17)

Based
on 263
Incidents



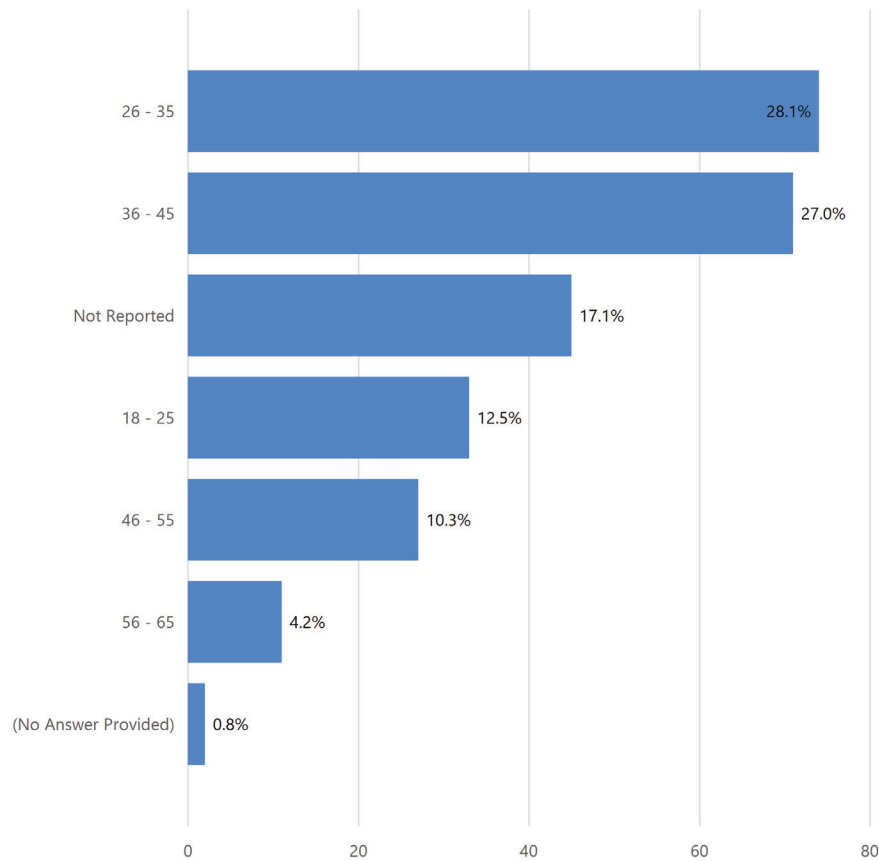
Total Industry Recordable Incidents by Time of Day (Chart 18)

Based
on 964
Incidents



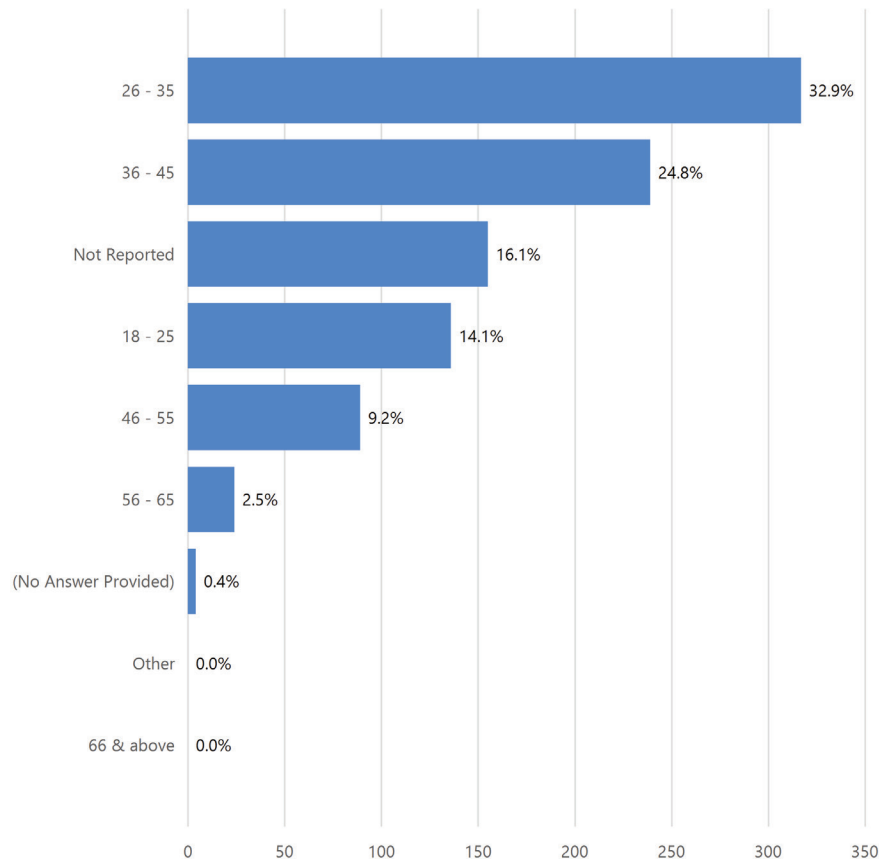
**Total Industry Lost Time
Incidents by Age
(Chart 19)**

Based
on 263
Incidents



**Total Industry Recordable
Incidents by Age
(Chart 20)**

Based
on 964
Incidents



2023 ISP Program Regional Totals

Combined Land & Water

IADC 2023 Africa Totals (Table 4)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	30,566,010	15,394,241	45,960,251
TOTAL MEDICAL TREATMENT INCIDENTS	32	2	34
TOTAL RESTRICTED WORK INCIDENTS	100	4	104
TOTAL LOST TIME INCIDENTS	54	3	57
TOTAL FATALITIES	1	0	1
TOTAL RECORDABLES	187	9	196
MTO INCIDENCE RATE	0.21	0.03	0.15
RWC INCIDENCE RATE	0.65	0.05	0.45
LTI INCIDENCE RATE	0.36	0.04	0.25
LTI FREQUENCY RATE	1.80	0.19	1.26
DART INCIDENCE RATE	1.01	0.09	0.70
DART FREQUENCY RATE	5.07	0.45	3.52
RECORDABLE INCIDENCE RATE	1.22	0.12	0.85
RECORDABLE FREQUENCY RATE	6.12	0.58	4.26

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE - (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

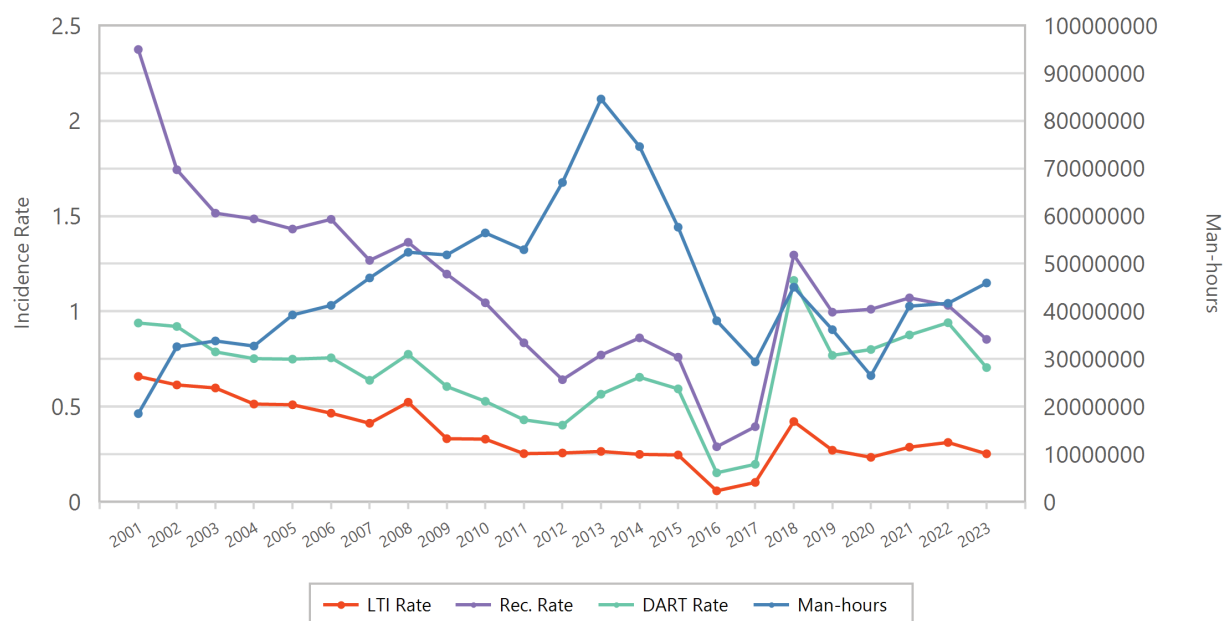
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 8 Water – 13

Africa Total LTI & Recordable Incidence Rates vs Man-hours (Figure 4)



IADC 2023 Asia Pacific Totals (Table 5)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	5,479,821	21,636,581	27,116,402
TOTAL MEDICAL TREATMENT INCIDENTS	3	6	9
TOTAL RESTRICTED WORK INCIDENTS	0	13	13
TOTAL LOST TIME INCIDENTS	0	5	5
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	3	24	27
MTO INCIDENCE RATE	0.11	0.06	0.07
RWC INCIDENCE RATE	0.00	0.12	0.10
LTI INCIDENCE RATE	0.00	0.05	0.04
LTI FREQUENCY RATE	0.00	0.23	0.18
DART INCIDENCE RATE	0.00	0.17	0.13
DART FREQUENCY RATE	0.00	0.83	0.66
RECORDABLE INCIDENCE RATE	0.11	0.22	0.20
RECORDABLE FREQUENCY RATE	0.55	1.11	1.00

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

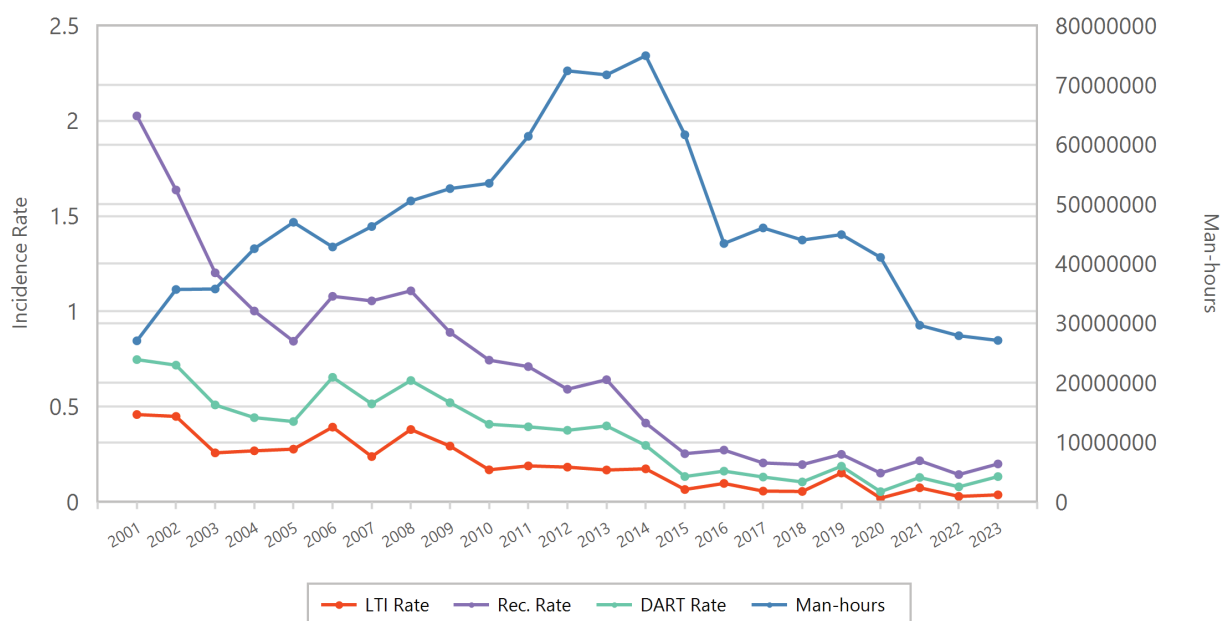
DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 7 Water – 17

Asia Pacific Total LTI & Recordable Incidence Rates vs Man-hours (Figure 5)



IADC 2023 Australasia Totals (Table 6)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	3,194,372	2,466,826	5,661,198
TOTAL MEDICAL TREATMENT INCIDENTS	4	4	8
TOTAL RESTRICTED WORK INCIDENTS	3	9	12
TOTAL LOST TIME INCIDENTS	10	4	14
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	17	17	34
MTO INCIDENCE RATE	0.25	0.32	0.28
RWC INCIDENCE RATE	0.19	0.73	0.42
LTI INCIDENCE RATE	0.63	0.32	0.49
LTI FREQUENCY RATE	3.13	1.62	2.47
DART INCIDENCE RATE	0.81	1.05	0.92
DART FREQUENCY RATE	4.07	5.27	4.59
RECORDABLE INCIDENCE RATE	1.06	1.38	1.20
RECORDABLE FREQUENCY RATE	5.32	6.89	6.01

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE - (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

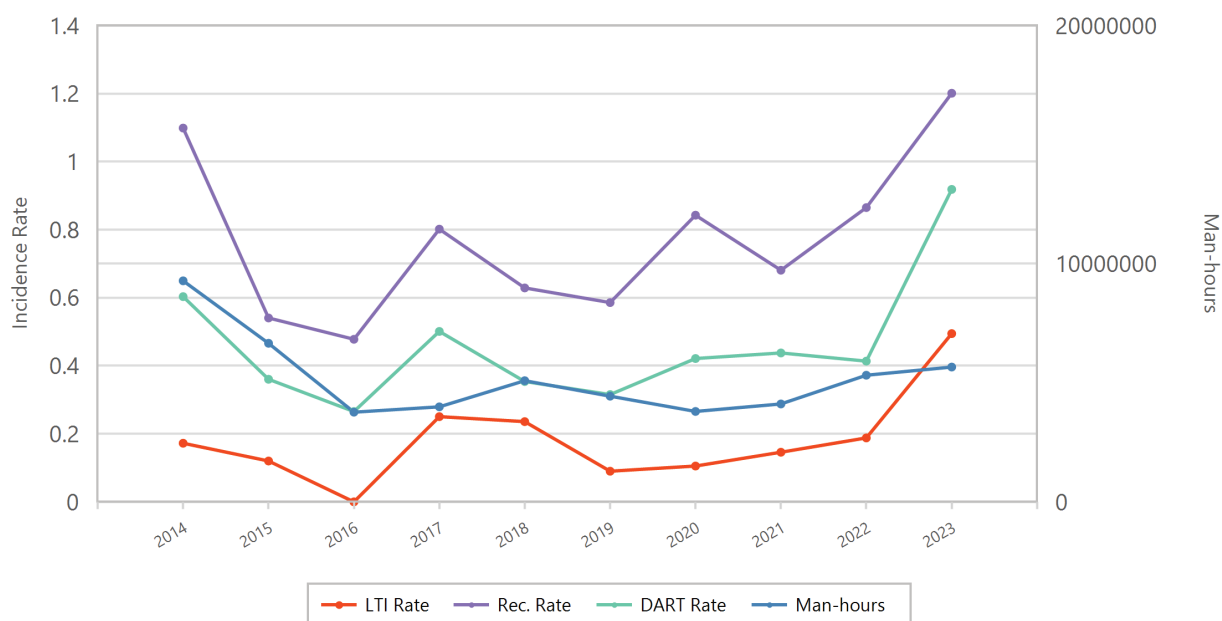
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 4 Water – 4

Australasia Total LTI & Recordable Incidence Rates vs Man-hours (Figure 6)



IADC 2023 Canada Totals (Table 7)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	8,199,194	612,631	8,811,825
TOTAL MEDICAL TREATMENT INCIDENTS	3	0	3
TOTAL RESTRICTED WORK INCIDENTS	22	0	22
TOTAL LOST TIME INCIDENTS	11	0	11
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	36	0	36
MTO INCIDENCE RATE	0.07	0.00	0.07
RWC INCIDENCE RATE	0.54	0.00	0.50
LTI INCIDENCE RATE	0.27	0.00	0.25
LTI FREQUENCY RATE	1.34	0.00	1.25
DART INCIDENCE RATE	0.80	0.00	0.75
DART FREQUENCY RATE	4.02	0.00	3.74
RECORDABLE INCIDENCE RATE	0.88	0.00	0.82
RECORDABLE FREQUENCY RATE	4.39	0.00	4.09

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE -(LTIs+FTLs) X 200,000 / MAN-HOURS

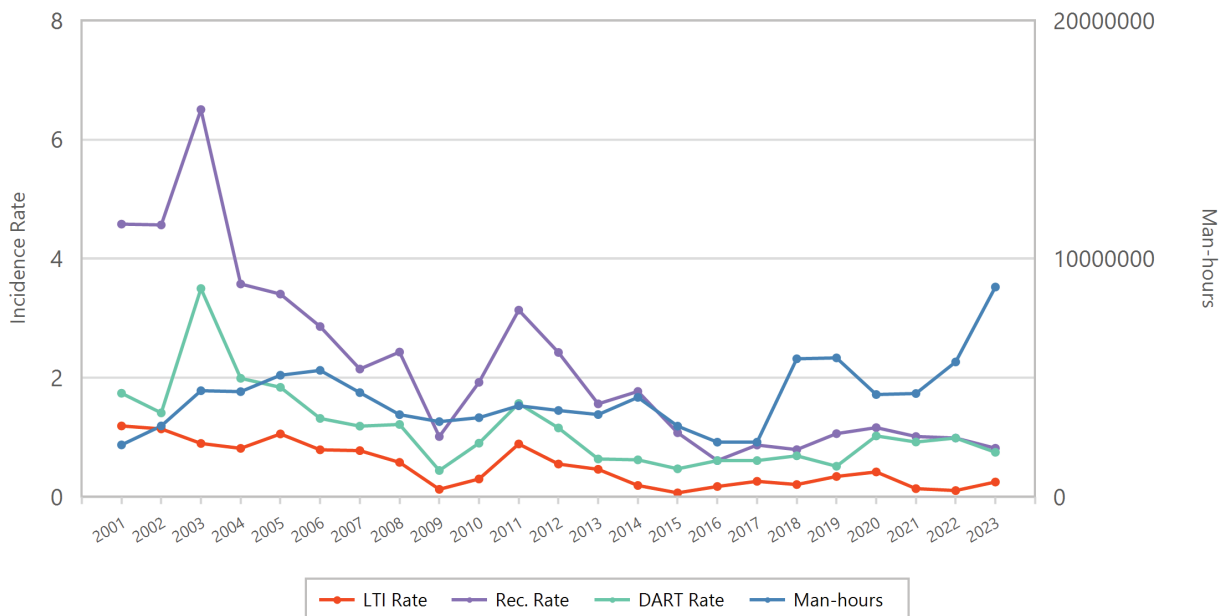
LOST TIME FREQUENCY RATE =(LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 5 Water – 4**Canada Total LTI & Recordable Incidence Rates vs Man-hours (Figure 7)**

IADC 2023 Central America & Caribbean Totals (Table 8)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	643,737	5,718,072	6,361,809
TOTAL MEDICAL TREATMENT INCIDENTS	1	5	6
TOTAL RESTRICTED WORK INCIDENTS	2	3	5
TOTAL LOST TIME INCIDENTS	0	6	6
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	3	14	17
MTO INCIDENCE RATE	0.31	0.17	0.19
RWC INCIDENCE RATE	0.62	0.10	0.16
LTI INCIDENCE RATE	0.00	0.21	0.19
LTI FREQUENCY RATE	0.00	1.05	0.94
DART INCIDENCE RATE	0.62	0.31	0.35
DART FREQUENCY RATE	3.11	1.57	1.73
RECORDABLE INCIDENCE RATE	0.93	0.49	0.53
RECORDABLE FREQUENCY RATE	4.66	2.45	2.67

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

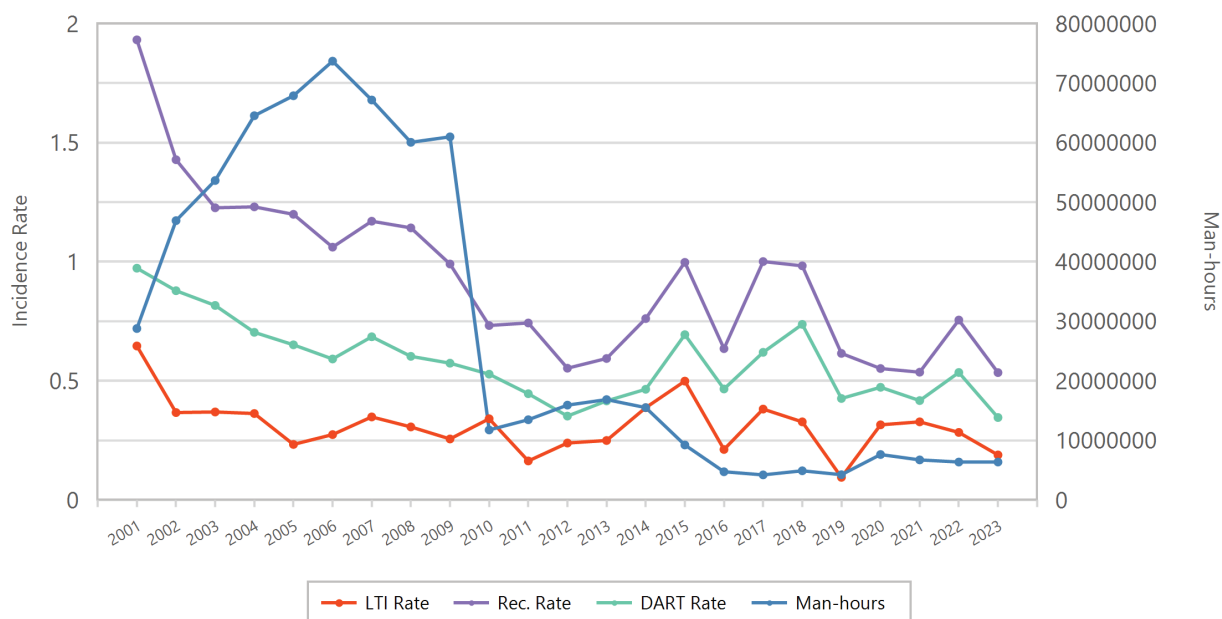
DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 4 Water – 7

Central America & Caribbean Total LTI & Recordable Incidence Rates vs Man-hours (Figure 8)



IADC 2023 European Totals (Table 9)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	4,213,630	21,641,279	25,854,909
TOTAL MEDICAL TREATMENT INCIDENTS	3	14	17
TOTAL RESTRICTED WORK INCIDENTS	1	17	18
TOTAL LOST TIME INCIDENTS	7	10	17
TOTAL FATALITIES	0	3	3
TOTAL RECORDABLES	11	44	55
MTO INCIDENCE RATE	0.14	0.13	0.13
RWC INCIDENCE RATE	0.05	0.16	0.14
LTI INCIDENCE RATE	0.33	0.12	0.15
LTI FREQUENCY RATE	1.66	0.60	0.77
DART INCIDENCE RATE	0.38	0.28	0.29
DART FREQUENCY RATE	1.90	1.39	1.47
RECORDABLE INCIDENCE RATE	0.52	0.41	0.43
RECORDABLE FREQUENCY RATE	2.61	2.03	2.13

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE - (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

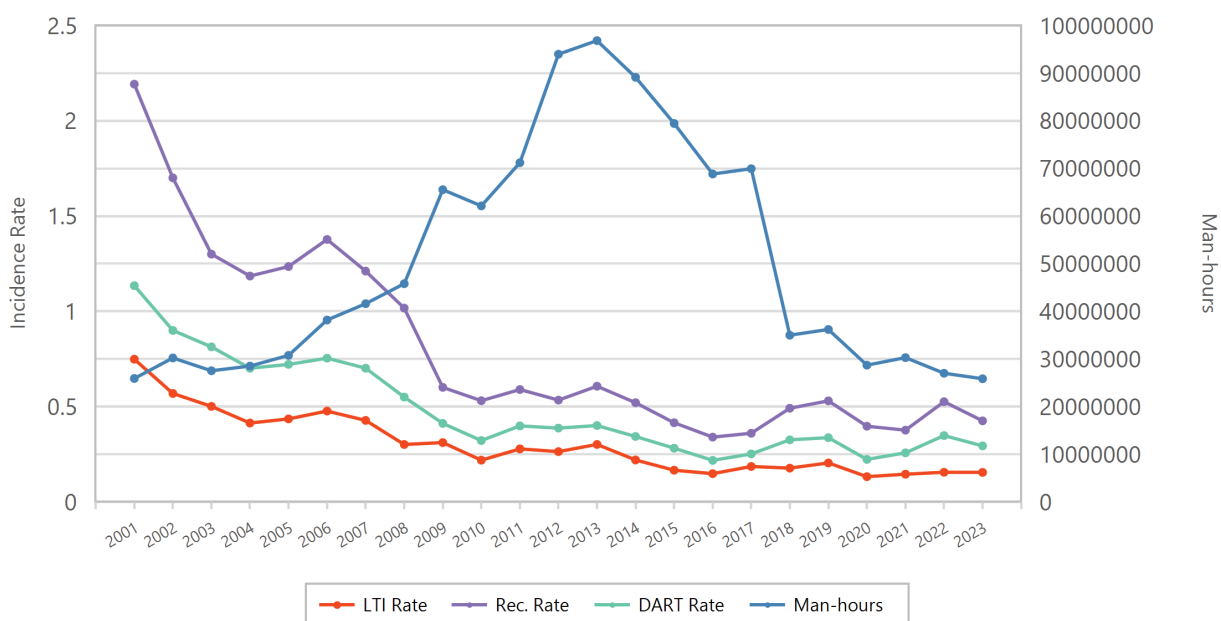
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 6 Water – 13

European Total LTI & Recordable Incidence Rates vs Man-hours (Figure 9)



IADC 2023 Middle East Totals (Table 10)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	106,086,487	63,478,475	169,564,962
TOTAL MEDICAL TREATMENT INCIDENTS	25	15	40
TOTAL RESTRICTED WORK INCIDENTS	35	22	57
TOTAL LOST TIME INCIDENTS	22	11	33
TOTAL FATALITIES	2	1	3
TOTAL RECORDABLES	84	49	133
MTO INCIDENCE RATE	0.05	0.05	0.05
RWC INCIDENCE RATE	0.07	0.07	0.07
LTI INCIDENCE RATE	0.05	0.04	0.04
LTI FREQUENCY RATE	0.23	0.19	0.21
DART INCIDENCE RATE	0.11	0.11	0.11
DART FREQUENCY RATE	0.56	0.54	0.55
RECORDABLE INCIDENCE RATE	0.16	0.15	0.16
RECORDABLE FREQUENCY RATE	0.79	0.77	0.78

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE - (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

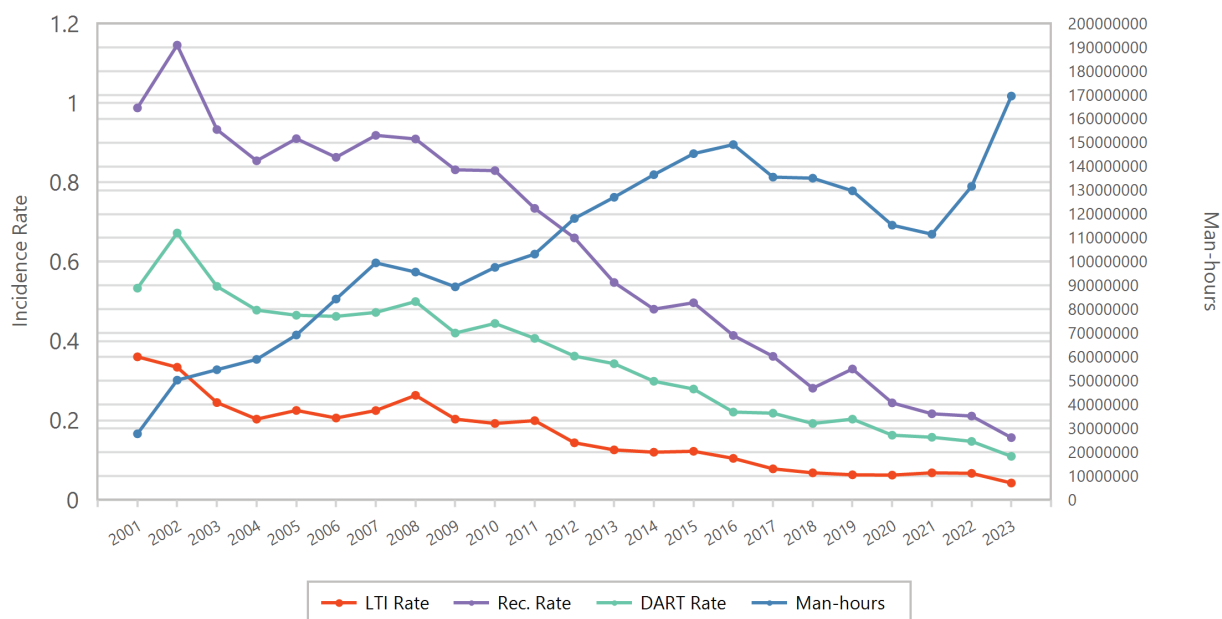
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 15 Water – 20

Middle East Total LTI & Recordable Incidence Rates vs Man-hours (Figure 10)



IADC 2023 South American Totals (Table 11)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	9,777,082	11,985,267	21,762,349
TOTAL MEDICAL TREATMENT INCIDENTS	6	5	11
TOTAL RESTRICTED WORK INCIDENTS	4	7	11
TOTAL LOST TIME INCIDENTS	2	4	6
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	12	16	28
MTO INCIDENCE RATE	0.12	0.08	0.10
RWC INCIDENCE RATE	0.08	0.12	0.10
LTI INCIDENCE RATE	0.04	0.07	0.06
LTI FREQUENCY RATE	0.20	0.33	0.28
DART INCIDENCE RATE	0.12	0.18	0.16
DART FREQUENCY RATE	0.61	0.92	0.78
RECORDABLE INCIDENCE RATE	0.25	0.27	0.26
RECORDABLE FREQUENCY RATE	1.23	1.33	1.29

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE = (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

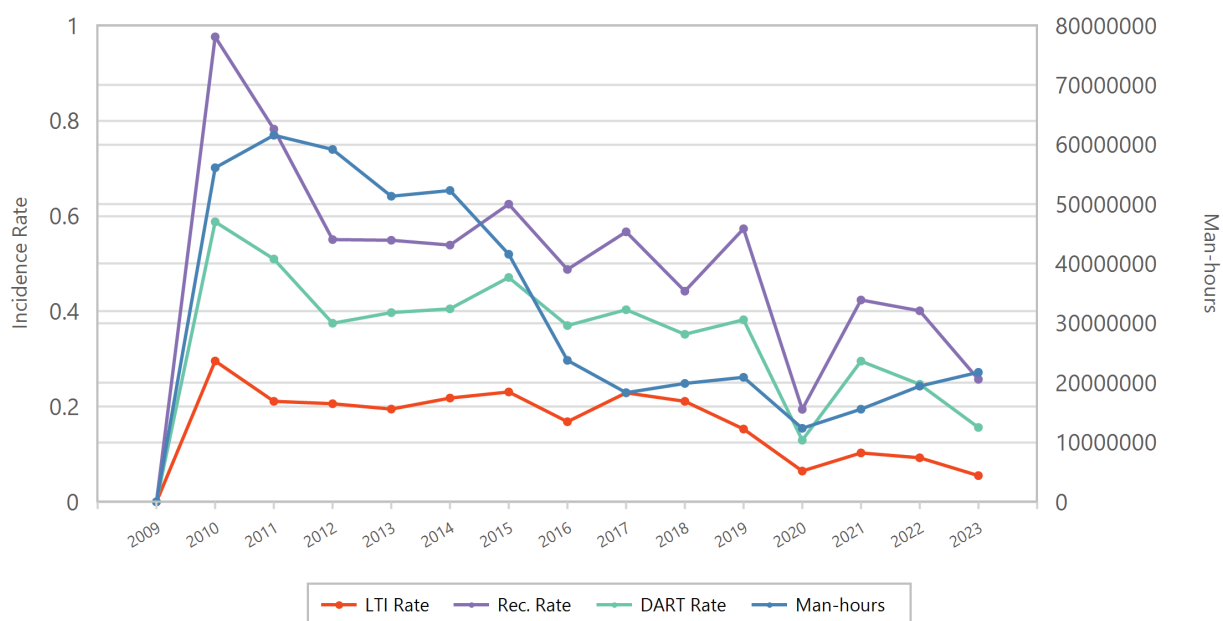
DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 7 Water – 5

South America Total LTI & Recordable Incidence Rates vs Man-hours (Figure 11)



IADC 2023 US Totals (Table 12)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	49,512,314	17,088,419	66,600,733
TOTAL MEDICAL TREATMENT INCIDENTS	128	25	153
TOTAL RESTRICTED WORK INCIDENTS	144	26	170
TOTAL LOST TIME INCIDENTS	105	9	114
TOTAL FATALITIES	3	0	3
TOTAL RECORDABLES	380	60	440
MTO INCIDENCE RATE	0.52	0.29	0.46
RWC INCIDENCE RATE	0.58	0.30	0.51
LTI INCIDENCE RATE	0.44	0.11	0.35
LTI FREQUENCY RATE	2.18	0.53	1.76
DART INCIDENCE RATE	1.02	0.41	0.86
DART FREQUENCY RATE	5.09	2.05	4.31
RECORDABLE INCIDENCE RATE	1.53	0.70	1.32
RECORDABLE FREQUENCY RATE	7.67	3.51	6.61

MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)

LOST TIME INCIDENCE RATE - (LTIs+FTLs) X 200,000 / MAN-HOURS

LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS

DART INCIDENCE RATE - (LTIs+FTLs+RWCs) X 200,000 / MAN-HOURS

DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

RECORDABLE FREQUENCY RATE = RECORDABLES X 1,000,000 / MAN-HOURS

Companies Reporting: Land – 20 Water – 9

US Total LTI & Recordable Incidence Rates vs Man-hours (Figure 12)

