



# IADC ISP Program 2022

**SUMMARY OF OCCUPATIONAL  
INCIDENTS (INDUSTRY TOTALS)**

*Issued 15 April 2023*



# IADC ISP Program 2022

## TABLE OF CONTENTS

<i>Summary of Occupational Incidents Introductory Briefing</i> . . . . .	3
<i>2022 ISP Program Industry Totals</i> . . . . .	7
<i>2022 Final Report (Table 1)</i> . . . . .	7
<i>5 Year Summary Report (Table 2)</i> . . . . .	8
<i>2022 - IADC Industry Totals (Table 3)</i> . . . . .	9
<i>Total Industry LTI &amp; Recordable Incidence Rates vs Man-hours (Figure 1)</i> . . . . .	9
<i>Total Industry Land LTI &amp; Recordable Incidence Rates vs Man-hours (Figure 2)</i> . . . . .	10
<i>Total Industry Water LTI &amp; Recordable Incidence Rates vs Man-hours (Figure 3)</i> . . . . .	10
<i>IADC 2022 Total Industry Charts</i> . . . . .	11
<i>Total Industry Lost Time Incidents by Month (Chart 1)</i> . . . . .	11
<i>Total Industry Recordable Incidents by Month (Chart 2)</i> . . . . .	11
<i>Total Industry Lost Time Incidents by Occupation (Chart 3)</i> . . . . .	12
<i>Total Industry Recordable Incidents by Occupation (Chart 4)</i> . . . . .	12
<i>Total Industry Lost Time Incidents by Body Part (Chart 5)</i> . . . . .	13
<i>Total Industry Recordable Incidents by Body Part (Chart 6)</i> . . . . .	13
<i>Total Industry Lost Time Incidents by Incident Type (Chart 7)</i> . . . . .	14
<i>Total Industry Recordable Incidents by Incident Type (Chart 8)</i> . . . . .	14
<i>Total Industry Lost Time Incidents by Equipment (Chart 9)</i> . . . . .	15
<i>Total Industry Recordable Incidents by Equipment (Chart 10)</i> . . . . .	15
<i>Total Industry Lost Time Incidents by Operation (Chart 11)</i> . . . . .	16
<i>Total Industry Recordable Incidents by Operation (Chart 12)</i> . . . . .	16
<i>Total Industry Lost Time Incidents by Location (Chart 13)</i> . . . . .	17
<i>Total Industry Recordable Incidents by Location (Chart 14)</i> . . . . .	17
<i>Total Industry Lost Time Incidents by Time in Service (Chart 15)</i> . . . . .	18
<i>Total Industry Recordable Incidents by Time in Service (Chart 16)</i> . . . . .	18
<i>Total Industry Lost Time Incidents by Time of Day (Chart 17)</i> . . . . .	19
<i>Total Industry Recordable Incidents by Time of Day (Chart 18)</i> . . . . .	19

*Total Industry Lost Time Incidents by Age (Chart 19)* . . . . . 20

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

*2022 ISP Program Regional Totals* . . . . . 21

*IADC 2022 Africa Totals (Table 4)* . . . . . 21

*Africa Total LTI & Recordable Incidence Rates vs Man-hours (Figure 4)* . . . . . 21

*IADC 2022 Asia Pacific Totals (Table 5)* . . . . . 22

*Asia Pacific Total LTI & Recordable Incidence Rates vs Man-hours (Figure 5)* . . . . . 22

*IADC 2022 Australasia Totals (Table 6)* . . . . . 23

*Australasia Total LTI & Recordable Incidence Rates vs Man-hours (Figure 6)* . . . . . 23

*IADC 2022 Canada Totals (Table 7)* . . . . . 24

*Canada Total LTI & Recordable Incidence Rates vs Man-hours (Figure 7)* . . . . . 24

*IADC 2022 Central America & Caribbean Totals (Table 8)* . . . . . 25

*Central America & Caribbean Total LTI & Recordable Incidence Rates vs Man-hours*  
*(Figure 8)* . . . . . 25

*IADC 2022 European Totals (Table 9)* . . . . . 26

*European Total LTI & Recordable Incidence Rates vs Man-hours (Figure 9)* . . . . . 26

*IADC 2022 Middle East Totals (Table 10)* . . . . . 27

*Middle East Total LTI & Recordable Incidence Rates vs Man-hours (Figure 10)* . . . . . 27

*IADC 2022 South American Totals (Table 11)* . . . . . 28

*South America Total LTI & Recordable Incidence Rates vs Man-hours (Figure 11)* . . . . . 28

*IADC 2022 US Totals (Table 12)* . . . . . 29

*US Total LTI & Recordable Incidence Rates vs Man-hours (Figure 12)* . . . . . 29

IADC ISP Program 2022  
 Issued 15 April 2023

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## Summary of Occupational Incidents Introductory Briefing

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. With the increase in rig demand in 2022, the incidence rates increased slightly from 2021. 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 2022, 76 contractors participated in the ISP representing a total of 330,058,050 million man-hours worked. Contractors striving for safety improvement by participating in the ISP program reported 1,112 Recordable incidents, 313 Lost Time incidents including 15 fatalities.

### 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 is expected to be completed late summer of 2023 and launch in the fall.

### 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

2022 saw the drilling industry's worldwide Lost Time Incidence Rate increase to 0.20 which is a 17.6% change of the 2021 report of 0.17. The 2022

Recordable Incident rate increased to 0.67 which is a 15.5% change over the 2021 report of 0.58. 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 0.20 in 2022, which is a 99% improvement.

### FATALITIES

In 2022 the industry's fatalities increased to 15 incidents compared to 7 incidents reported in 2021. According to the data reported in 2022, four (4) fatalities occurred to employees who had more than ten years of service with the company. Four (4) more fatalities occurred to employees who had more than one year but less than five years of service. Five (5) fatalities occurred during Rigging up/down. Eight (8) of the fatalities occurred to floormen. While fifteen (15) fatalities were reported, details were only provided for fourteen (14).

### Regional Summaries: Man-Hours vs Fatalities

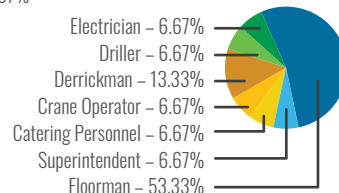
European Land and Offshore categories together worked more than 27 million man-hours in 2022 with zero (0) fatalities. European offshore accounted for 23.1 million man-hours with zero (0) fatalities while European Land had 3.9 million man-hours and zero (0) fatalities. US Land and Offshore contractors

## Fatalities

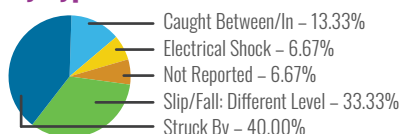
### By Time in Service



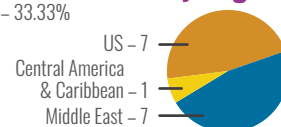
### By Occupation



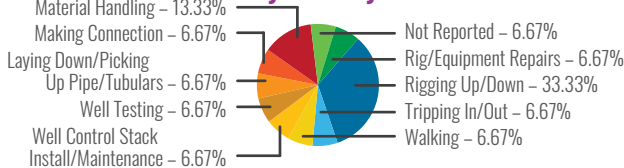
### By Type



### By Region



### By Activity

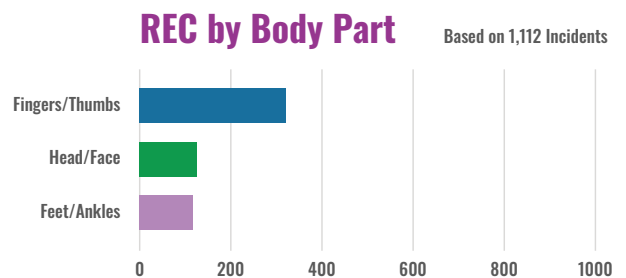
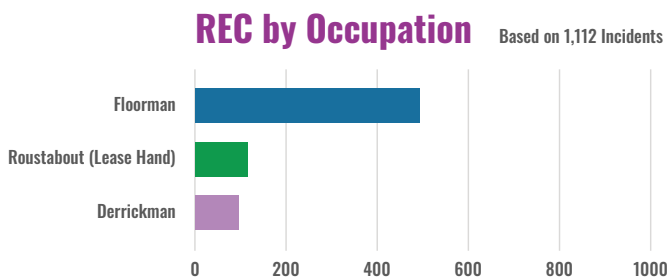
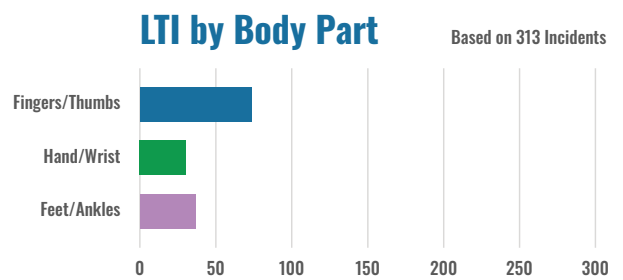
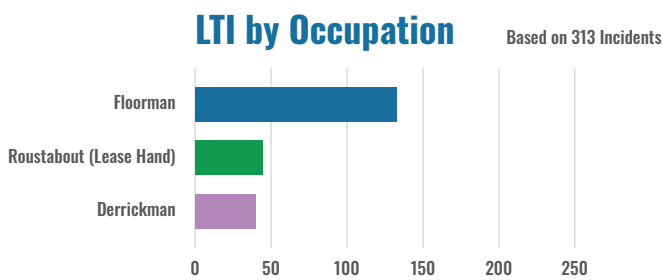


together worked more than 65 million man-hours with seven (7) fatalities. US Land had 50.1 million man-hours with six (6) fatalities while US water had 15 million man-hours and one (1) fatality. Canadian contractors accounted for 5.6 million man-hours and zero (0) fatalities. Canadian Land had 4.8 million man-hours and zero (0) fatalities while offshore had 852,259 man-hours and no fatalities. Central America and Caribbean accounted for 6.3 million man-hours with one (1) fatality. Land operations reported 626,758 man-hours and no fatalities while water operations reported just over 5.7 million man-hours and one (1) fatality. Africa combined land and offshore accounted for 41.7 million man-hours with zero (0) fatalities. Africa Land accounted for 28.5 million man-hours with zero (0) fatalities while Africa Water had 13.2 million man-hours and no fatalities. The Middle East region accounted for 131.6 million man-hours with seven (7) fatalities. The Land division had 87.1 million man-hours and five (5) fatalities while there were 44.5 million man-hours and two (2) fatalities for the offshore division. Asia Pacific accounted for 27.9 million man-hours and zero (0) fatalities. Water had 21.9 million man-hours and zero (0) fatalities while the Land Division had 6 million man-hours with no fatalities. South America made up 19.5 million man-hours with no fatalities. Land had 8.5 million man-hours and no fatalities while Water had 11 million man-hours and no fatalities. Australasia made up 5.3 million man-hours with no fatalities. Land had 2.6 million man-hours with no fatalities while offshore had 2.7 million man-hours with no fatalities.

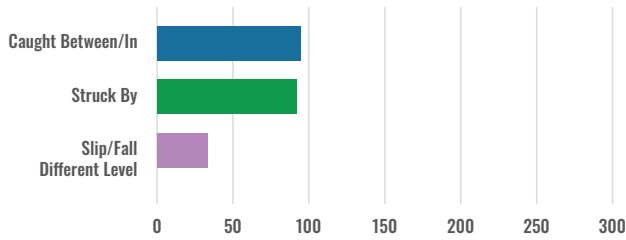
2022. US Offshore LTI Incidence rate worsened from 0.10 in 2021 to 0.16 in 2022 and Recordable Incidence Rate worsened from 0.67 in 2021 to 0.75 in 2022. European Land workers saw their LTI rate worsen from 0.22 for 2021 to 0.41 for 2022. The Recordable Incidence Rate worsened from 0.39 in 2021 to 0.51 in 2022. European Offshore workers LTI rate improved from 0.13 in 2021 to 0.12 in 2022 while the Recordable Incidence rate worsened from 0.37 in 2021 to 0.55 in 2022. Canada Land had a 2021 LTI rate of 0.15 which improved to 0.12 for 2022, while their Recordable Incidence rate worsened from 1.05 in 2021 to 1.08 for 2022. Canada Offshore workers saw their 2021 LTI rate of 0.00 worsen to 0.23 for 2022. The Recordable Incidence rate of 0.56 for 2021 worsened to 0.70 for 2022. Central America and Caribbean Land 2021 LTI rate of 1.30 decreased to 0.32 for 2022. Their 2021 Recordable Incidence rate of 2.08 decreased to 1.28 for 2022. Central America and Caribbean Water 2021 LTI Rate of 0.24 worsened to 0.28 in 2022. The Recordable rate of 0.37 for 2021 worsened to 0.80 for 2022. Africa Land LTI rate increased from 0.37 in 2021 to 0.44 in 2022. The Recordable Incidence rate increased from 1.39 in 2021 to 1.45 in 2022. Africa Water LTI rate increased from 0.04 in 2021 to 0.06 in 2022 and their Recordable Incidence rate increased 6% from 0.16 in 2021 to 0.17 in 2022. Middle East Land LTI rate improved from 0.08 in 2021 to 0.07 in 2022. Their 2021 Recordable Incidence rate of 0.24 improved to 0.22 in 2022. Middle East Water 2022 LTI rate of 0.05 remained the same as 0.05 in 2021 as did their Recordable Incidence rate of 0.20 in 2021 compared with 0.20 in 2022. Asia Pacific Land LTI rate increased from 0.00 in 2021 to 0.03 in 2022, while their Recordable Incidence rate increased from 0.16 in 2021 to 0.23 in 2022. Asia Pacific Water 2021 LTI rate of 0.09 decreased to 0.04 for 2022 and their Recordable Incidence rate improved from 0.24 in

**Lost Time and Recordable Incidents by Region**

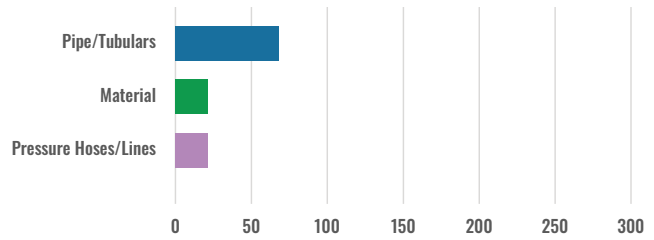
Lost time incidents among US Land workers worsened from 0.45 in 2021 to 0.60 in 2022. The Total Recordable Incidence Rate worsened from 1.57 in 2021 to 1.90 in



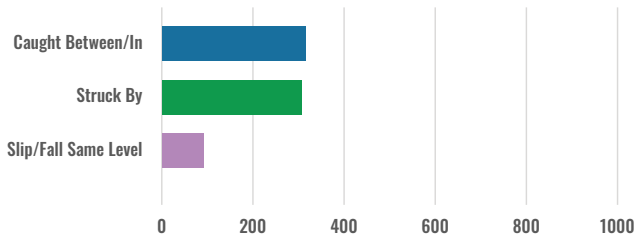
**LTI by Incident Type** Based on 313 Incidents



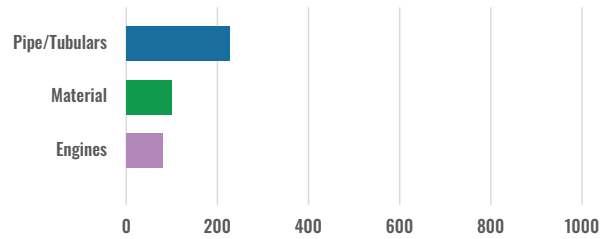
**LTI by Equipment** Based on 313 Incidents



**REC by Incident Type** Based on 1,112 Incidents



**REC by Equipment** Based on 1,112 Incidents



2021 to 0.14 in 2022. In 2021, South America Land had an LTI rate of 0.20 which improved to 0.12 in 2022 and a 2021 Recordable rate of 0.75 which improved to 0.47 in 2022. South America Water 2021 LTI rate was 0.02 which worsened to 0.11 in 2022 and a 2021 Recordable rate of 0.21 that worsened to 0.49 in 2022. Australasia Land had a 2021 LTI rate of 0.10 which increased to 0.31 for 2022 and Recordable incident rate of 0.29 for 2021 which increased to 0.84 for 2022. Australasia Water had a 2021 LTI rate of 0.19 which improved to 0.07 for 2022 and a 2021 Recordable incident rate of 1.07 which improved to 0.96 for 2022.

**Greatest Risks**

Incidents occur in many places around the rig and to all crewmembers. Many types of equipment and

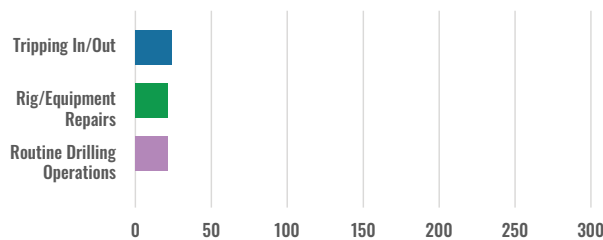
rig operations are involved in incidents and all parts of the body are at risk. Incident data are analyzed by occupation, body part, incident type, equipment type, operation, location time in service and time of day the incident occurred.

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.

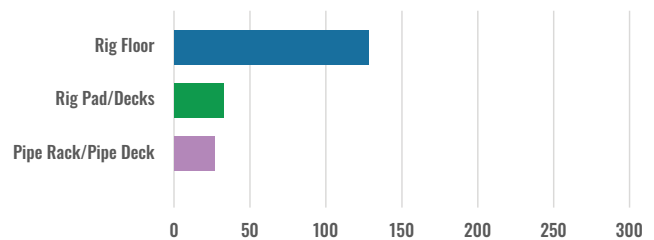
Fingers remained the most vulnerable part of the body.

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

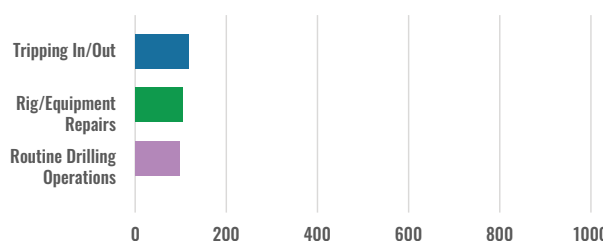
**LTI by Activity** Based on 313 Incidents



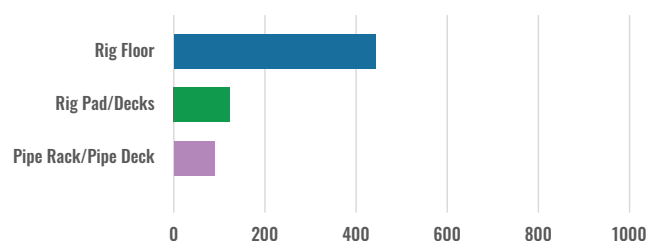
**LTI by Location** Based on 313 Incidents



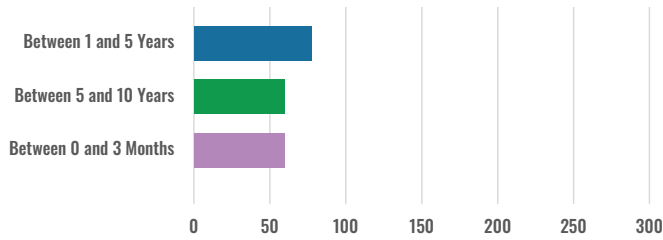
**REC by Activity** Based on 1,112 Incidents



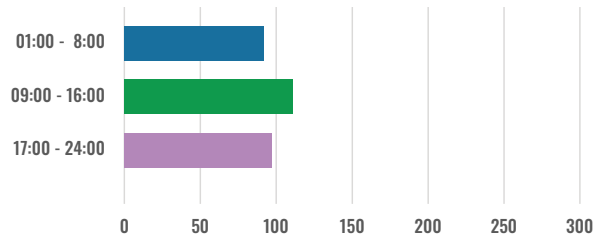
**REC by Location** Based on 1,112 Incidents



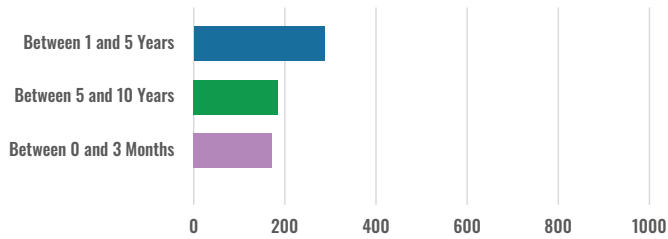
**LTI by Time in Service** Based on 313 Incidents



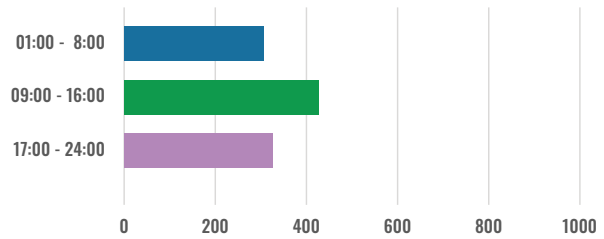
**LTI by Time of Day** Based on 313 Incidents



**REC by Time in Service** Based on 1,112 Incidents



**REC by Time of Day** Based on 1,112 Incidents



Pipe/Tubulars is the equipment responsible for the most Lost Time and Recordable incidents.

“Tripping In/Out” accounted for the most LTI 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 09:00-16:00 hours.

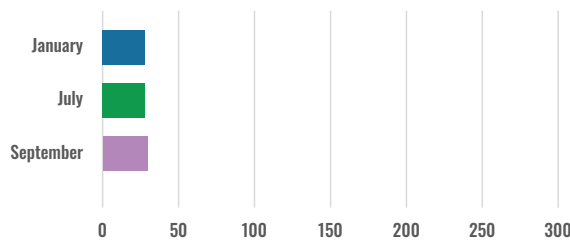
September accounted for the most Lost Time while September and August accounted for the most Recordable incidents.

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

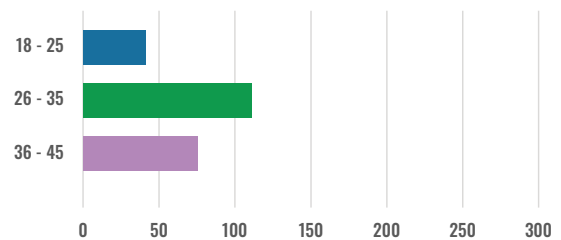
**Conclusion**

Activity in most sectors of the industry increased in 2022. Overall, Lost Time incidents rates and Recordable incident rates increased slightly in 2022 as compared to 2021, an increase attributable to regions which experienced an uptick in rig activity.

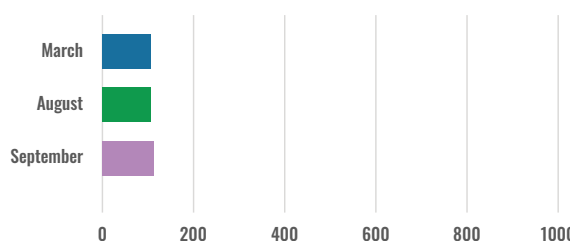
**LTI by Month** Based on 313 Incidents



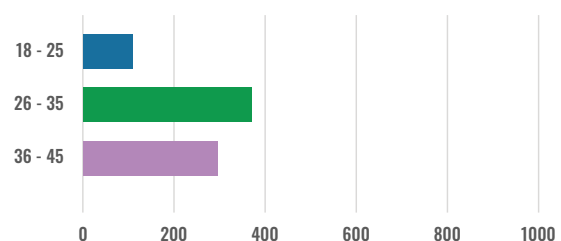
**LTI by Age** Based on 313 Incidents



**REC by Month** Based on 1,112 Incidents



**REC by Age** Based on 1,112 Incidents



# 2022 ISP Program Industry Totals

## 2022 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	50,070,227	149	177	144	6	476	0.6	3	1.31	6.53	1.9	9.51
US - Water	14,961,093	27	17	11	1	56	0.16	0.8	0.39	1.94	0.75	3.74
Canada - Land	4,814,264	0	23	3	0	26	0.12	0.62	1.08	5.4	1.08	5.4
Canada - Water	852,259	0	2	1	0	3	0.23	1.17	0.7	3.52	0.7	3.52
Central America & Caribbean - Land	626,758	2	1	1	0	4	0.32	1.6	0.64	3.19	1.28	6.38
Central America & Caribbean - Water	5,729,052	4	11	7	1	23	0.28	1.4	0.66	3.32	0.8	4.01
European - Land	3,947,782	0	2	8	0	10	0.41	2.03	0.51	2.53	0.51	2.53
European - Water	23,059,521	25	24	14	0	63	0.12	0.61	0.33	1.65	0.55	2.73
Africa - Land	28,501,102	18	126	63	0	207	0.44	2.21	1.33	6.63	1.45	7.26
Africa - Water	13,186,564	2	5	4	0	11	0.06	0.3	0.14	0.68	0.17	0.83
Middle East - Land	87,113,573	28	37	26	5	96	0.07	0.36	0.16	0.78	0.22	1.1
Middle East - Water	44,529,434	14	18	10	2	44	0.05	0.27	0.13	0.67	0.2	0.99
Asia Pacific - Land	5,995,292	3	3	1	0	7	0.03	0.17	0.13	0.67	0.23	1.17
Asia Pacific - Water	21,910,843	7	4	4	0	15	0.04	0.18	0.07	0.37	0.14	0.68
South America Land	8,454,382	3	12	5	0	20	0.12	0.59	0.4	2.01	0.47	2.37
South America Water	10,987,815	11	10	6	0	27	0.11	0.55	0.29	1.46	0.49	2.46
Australasia – Land	2,605,545	5	2	4	0	11	0.31	1.54	0.46	2.3	0.84	4.22
Australasia – Water	2,712,544	8	4	1	0	13	0.07	0.37	0.37	1.84	0.96	4.79
<b>US Combined</b>	<b>65,031,320</b>	<b>176</b>	<b>194</b>	<b>155</b>	<b>7</b>	<b>532</b>	<b>0.38</b>	<b>1.90</b>	<b>0.85</b>	<b>4.24</b>	<b>1.33</b>	<b>6.63</b>
<b>Canada Combined</b>	<b>5,666,523</b>	<b>0</b>	<b>25</b>	<b>4</b>	<b>0</b>	<b>29</b>	<b>0.18</b>	<b>0.90</b>	<b>0.89</b>	<b>4.46</b>	<b>0.89</b>	<b>4.46</b>
<b>Central America &amp; Caribbean Com.</b>	<b>6,355,810</b>	<b>6</b>	<b>12</b>	<b>8</b>	<b>1</b>	<b>27</b>	<b>0.30</b>	<b>1.50</b>	<b>0.65</b>	<b>3.26</b>	<b>1.04</b>	<b>5.20</b>
<b>European Combined</b>	<b>27,007,303</b>	<b>25</b>	<b>26</b>	<b>22</b>	<b>0</b>	<b>73</b>	<b>0.27</b>	<b>1.32</b>	<b>0.42</b>	<b>2.09</b>	<b>0.53</b>	<b>2.63</b>
<b>Africa Combined</b>	<b>41,687,666</b>	<b>20</b>	<b>131</b>	<b>67</b>	<b>0</b>	<b>218</b>	<b>0.25</b>	<b>1.26</b>	<b>0.74</b>	<b>3.66</b>	<b>0.81</b>	<b>4.05</b>
<b>Middle East Combined</b>	<b>131,643,007</b>	<b>42</b>	<b>55</b>	<b>36</b>	<b>7</b>	<b>140</b>	<b>0.06</b>	<b>0.32</b>	<b>0.15</b>	<b>0.73</b>	<b>0.21</b>	<b>1.05</b>
<b>Asia Pacific Combined</b>	<b>27,906,135</b>	<b>10</b>	<b>7</b>	<b>5</b>	<b>0</b>	<b>22</b>	<b>0.04</b>	<b>0.18</b>	<b>0.10</b>	<b>0.52</b>	<b>0.19</b>	<b>0.93</b>
<b>South America Combined</b>	<b>19,442,197</b>	<b>14</b>	<b>22</b>	<b>11</b>	<b>0</b>	<b>47</b>	<b>0.12</b>	<b>0.57</b>	<b>0.35</b>	<b>1.74</b>	<b>0.48</b>	<b>2.42</b>
<b>Australasia Combined</b>	<b>5,318,089</b>	<b>13</b>	<b>6</b>	<b>5</b>	<b>0</b>	<b>24</b>	<b>0.19</b>	<b>0.96</b>	<b>0.42</b>	<b>2.07</b>	<b>0.90</b>	<b>4.51</b>
<b>INDUSTRY TOTAL</b>	<b>330,058,050</b>	<b>306</b>	<b>478</b>	<b>313</b>	<b>15</b>	<b>1,112</b>	<b>0.20</b>	<b>0.99</b>	<b>0.49</b>	<b>2.44</b>	<b>0.67</b>	<b>3.37</b>

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



## 5 Year Summary Report (Table 2)

Lost Time and Total Recordable Incidence/Frequency Rate

CATEGORY	TYPE	2022		2021		2020		2019		2018	
		INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE	INCD.RATE	FREQ.RATE
US Land	LTI:	0.6	3	0.45	2.26	0.3	1.52	0.48	2.42	0.51	2.56
	DART:	1.31	6.53	1.11	5.53	0.68	3.40	0.92	4.62	1.05	5.25
	RCRD:	1.9	9.51	1.57	7.87	1.09	5.44	1.51	7.53	1.61	8.03
US Water	LTI:	0.16	0.8	0.10	0.51	0.11	0.53	0.08	0.39	0.07	0.37
	DART:	0.39	1.94	0.43	2.14	0.31	1.53	0.34	1.71	0.26	1.28
	RCRD:	0.75	3.74	0.67	3.34	0.41	2.06	0.47	2.35	0.42	2.12
Canada Land	LTI:	0.12	0.62	0.15	0.75	0.61	3.04	0.41	2.05	0.27	1.37
	DART:	1.08	5.4	0.95	4.77	1.15	5.77	0.64	3.19	0.78	3.88
	RCRD:	1.08	5.4	1.05	5.27	1.34	6.68	1.32	6.62	0.91	4.57
Canada Water	LTI:	0.23	1.17	0.00	0.00	0.00	0.00	0.14	0.69	0	0
	DART:	0.7	3.52	0.56	2.81	1.19	5.96	0.14	0.69	0.42	2.12
	RCRD:	0.7	3.52	0.56	2.81	1.39	6.96	0.28	1.38	0.42	2.12
Central America & Caribbean Land	LTI:	0.32	1.6	1.30	6.49	1.00	5.02	0.25	1.25	1.25	6.27
	DART:	0.64	3.19	1.82	9.09	1.26	6.28	0.25	1.25	2.09	10.45
	RCRD:	1.28	6.38	2.08	10.39	1.26	6.28	1.25	6.25	2.93	14.63
Central America & Caribbean Water	LTI:	0.28	1.4	0.24	1.18	0.15	0.73	0.06	0.29	0.23	1.13
	DART:	0.66	3.32	0.27	1.35	0.26	1.32	0.47	2.33	0.73	3.63
	RCRD:	0.8	4.01	0.37	1.85	0.47	2.35	0.47	2.33	0.91	4.54
South America Land	LTI:	0.12	0.59	0.20	1.01	0.09	0.44	0.16	0.8	0.25	1.26
	DART:	0.4	2.01	0.55	2.75	0.26	1.31	0.54	2.68	0.41	2.06
	RCRD:	0.47	2.37	0.75	3.77	0.31	1.53	0.79	3.93	0.54	2.69
South America Water	LTI:	0.11	0.55	0.02	0.12	0.08	0.39	0.14	0.72	0.14	0.69
	DART:	0.29	1.46	0.14	0.69	0.10	0.51	0.21	1.03	0.25	1.26
	RCRD:	0.49	2.46	0.21	1.04	0.21	1.03	0.33	1.65	0.3	1.49
European Land	LTI:	0.41	2.03	0.22	1.09	0.31	1.57	0.23	1.16	0.39	1.93
	DART:	0.51	2.53	0.31	1.53	0.37	1.83	0.41	2.07	0.39	1.93
	RCRD:	0.51	2.53	0.39	1.97	0.42	2.09	0.59	2.97	0.48	2.42
European Water	LTI:	0.12	0.61	0.13	0.66	0.13	0.64	0.2	0.98	0.11	0.56
	DART:	0.33	1.65	0.24	1.21	0.24	1.21	0.32	1.58	0.31	1.53
	RCRD:	0.55	2.73	0.37	1.87	0.44	2.21	0.51	2.56	0.5	2.51
Africa Land	LTI:	0.44	2.21	0.37	1.85	0.40	2.01	0.44	2.18	0.57	2.83
	DART:	1.33	6.63	1.15	5.74	1.28	6.41	1.24	6.19	1.51	7.53
	RCRD:	1.45	7.26	1.39	6.95	1.61	8.06	1.55	7.73	1.67	8.34
Africa Water	LTI:	0.06	0.3	0.04	0.21	0.08	0.40	0.06	0.31	0.06	0.31
	DART:	0.14	0.68	0.06	0.31	0.20	0.99	0.18	0.88	0.32	1.62
	RCRD:	0.17	0.83	0.16	0.82	0.34	1.68	0.3	1.5	0.43	2.17
Middle East Land	LTI:	0.07	0.36	0.08	0.39	0.08	0.41	0.07	0.34	0.07	0.36
	DART:	0.16	0.78	0.17	0.84	0.21	1.05	0.19	0.97	0.19	0.96
	RCRD:	0.22	1.1	0.24	1.18	0.33	1.65	0.33	1.64	0.28	1.41
Middle East Water	LTI:	0.05	0.27	0.05	0.27	0.04	0.18	0.05	0.27	0.06	0.29
	DART:	0.13	0.67	0.15	0.76	0.11	0.53	0.22	1.1	0.19	0.96
	RCRD:	0.2	0.99	0.21	1.03	0.16	0.79	0.33	1.66	0.28	1.39
Asia Pacific Land	LTI:	0.03	0.17	0.00	0.00	0.06	0.32	0.08	0.41	0.04	0.22
	DART:	0.13	0.67	0.03	0.16	0.13	0.63	0.08	0.41	0.09	0.45
	RCRD:	0.23	1.17	0.16	0.79	0.25	1.26	0.12	0.61	0.22	1.12
Asia Pacific Water	LTI:	0.04	0.18	0.09	0.47	0.03	0.17	0.17	0.85	0.06	0.31
	DART:	0.07	0.37	0.15	0.77	0.08	0.40	0.22	1.08	0.13	0.63
	RCRD:	0.14	0.68	0.24	1.20	0.18	0.89	0.28	1.42	0.22	1.09
Australasia Land	LTI:	0.31	1.54	0.10	0.49	0.13	0.64	0	0	0.52	2.62
	DART:	0.46	2.3	0.10	0.49	0.26	1.28	0.37	1.86	0.84	4.2
	RCRD:	0.84	4.22	0.29	1.46	0.64	3.20	0.65	3.25	1.31	6.56
Australasia Water	LTI:	0.07	0.37	0.19	0.97	0.09	0.45	0.18	0.88	0.31	1.56
	DART:	0.37	1.84	0.78	3.90	0.36	1.79	0.26	1.31	0.47	2.35
	RCRD:	0.96	4.79	1.07	5.36	0.72	3.58	0.53	2.63	0.47	2.35
INDUSTRY TOTALS	LTI:	0.20	0.99	0.17	0.84	0.13	0.63	0.18	0.92	0.21	1.04
	DART:	0.49	2.44	0.43	2.13	0.31	1.57	0.41	2.07	0.49	2.43
	RCRD:	0.67	3.37	0.58	2.91	0.46	2.28	0.64	3.12	0.68	3.39

### 2022 - IADC Industry Totals (Table 3)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	192,128,925	137,929,125	330,058,050
TOTAL MEDICAL TREATMENT INCIDENTS	208	98	306
TOTAL RESTRICTED WORK INCIDENTS	383	95	478
TOTAL LOST TIME INCIDENTS	255	58	313
TOTAL FATALITIES	11	4	15
TOTAL RECORDABLES	857	255	1,112
MTO INCIDENCE RATE	0.22	0.14	0.19
RWC INCIDENCE RATE	0.40	0.14	0.29
LTI INCIDENCE RATE	0.28	0.09	0.20
LTI FREQUENCY RATE	1.38	0.45	0.99
DART INCIDENCE RATE	0.68	0.23	0.49
DART FREQUENCY RATE	3.38	1.14	2.44
RECORDABLE INCIDENCE RATE	0.89	0.37	0.67
RECORDABLE FREQUENCY RATE	4.46	1.85	3.37

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

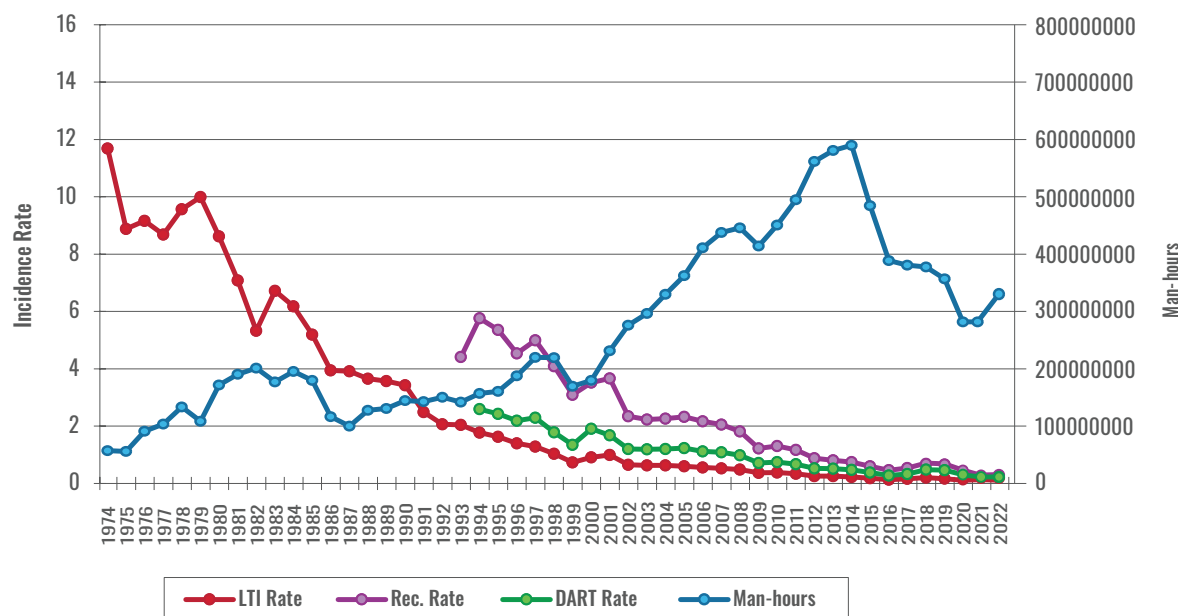
RECORDABLE INCIDENCE RATE = RECORDABLES X 200,000 / MAN-HOURS

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

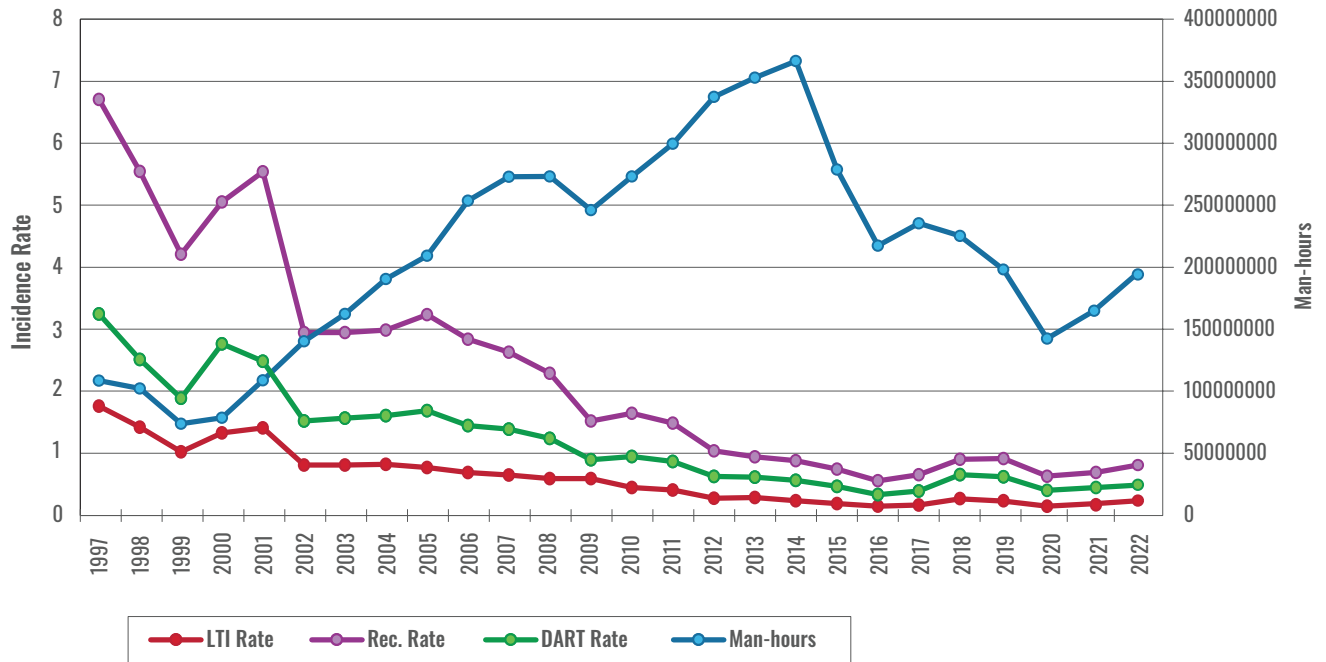
**Number of participating companies: 76 - Total; 50 - Land; 43 - Water**

Please note, some companies participate in both categories.

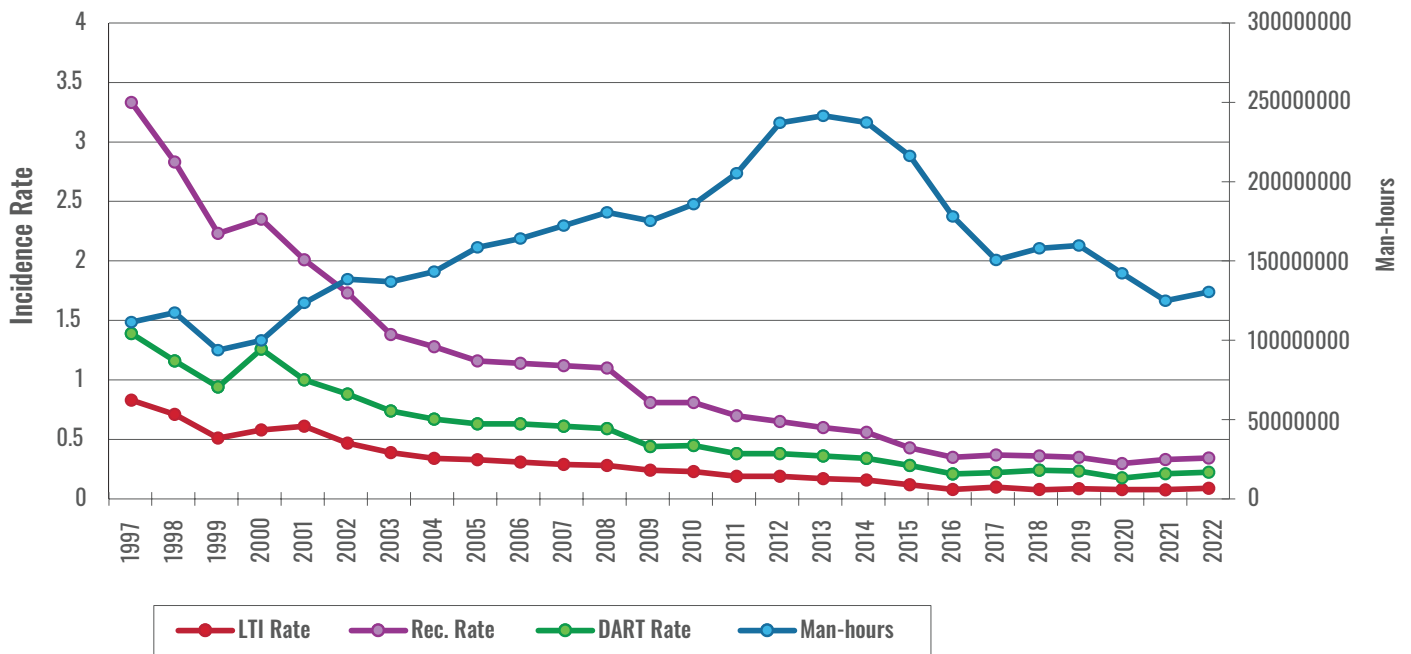
**Total Industry LTI & Recordable Incidence Rates vs Man-hours (Figure 1)**



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



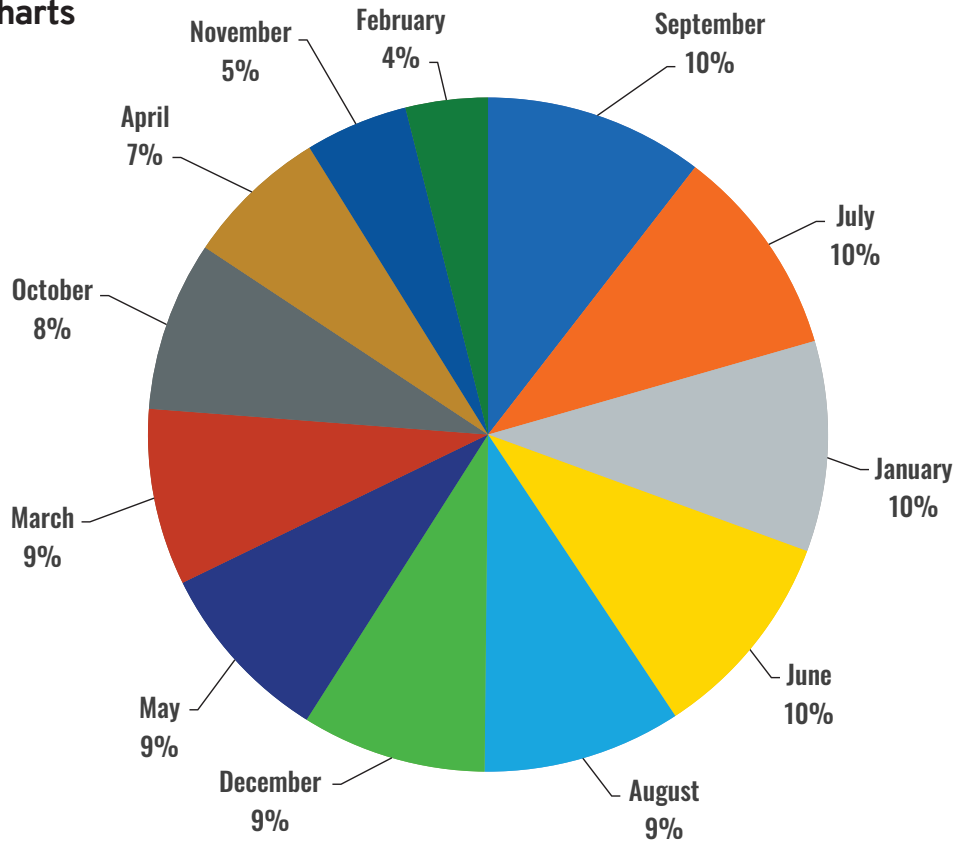
**Total Industry Water LTI & Recordable Incidence Rates vs Man-hours (Figure 3)**



**IADC 2022 Total Industry Charts**

**Total Industry Lost Time Incidents by Month (Chart 1)**

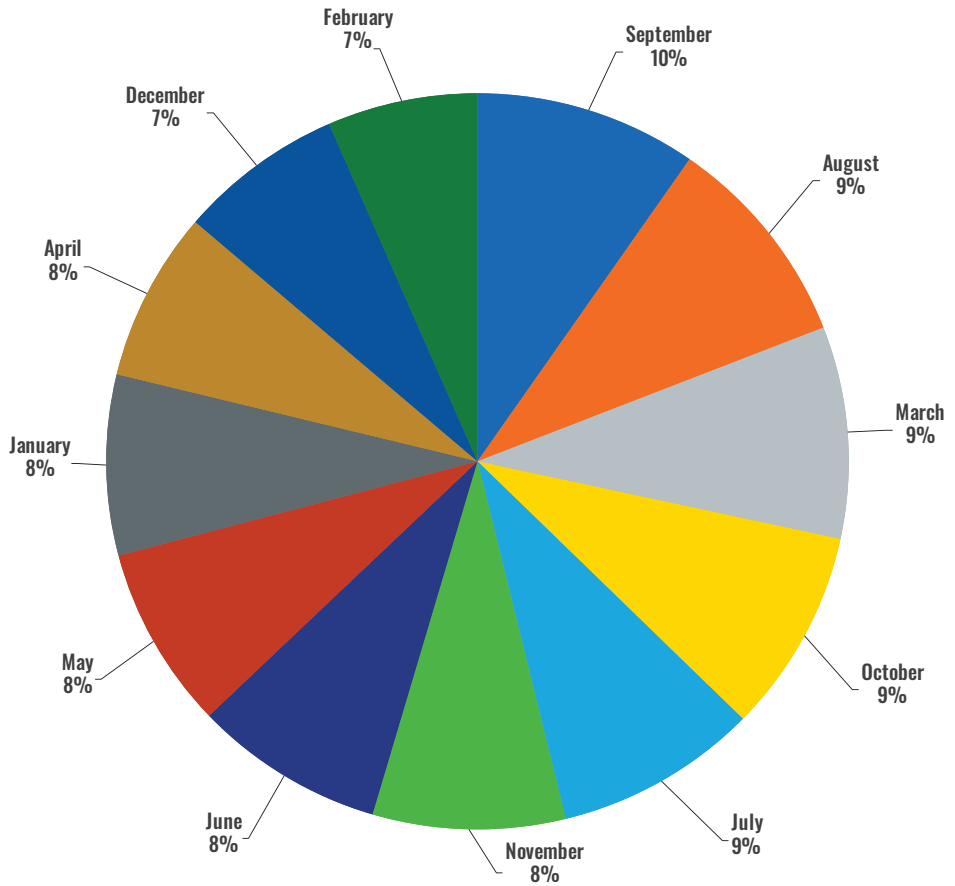
Based on 313 Incidents



**Total Industry Recordable Incidents by Month (Chart 2)**

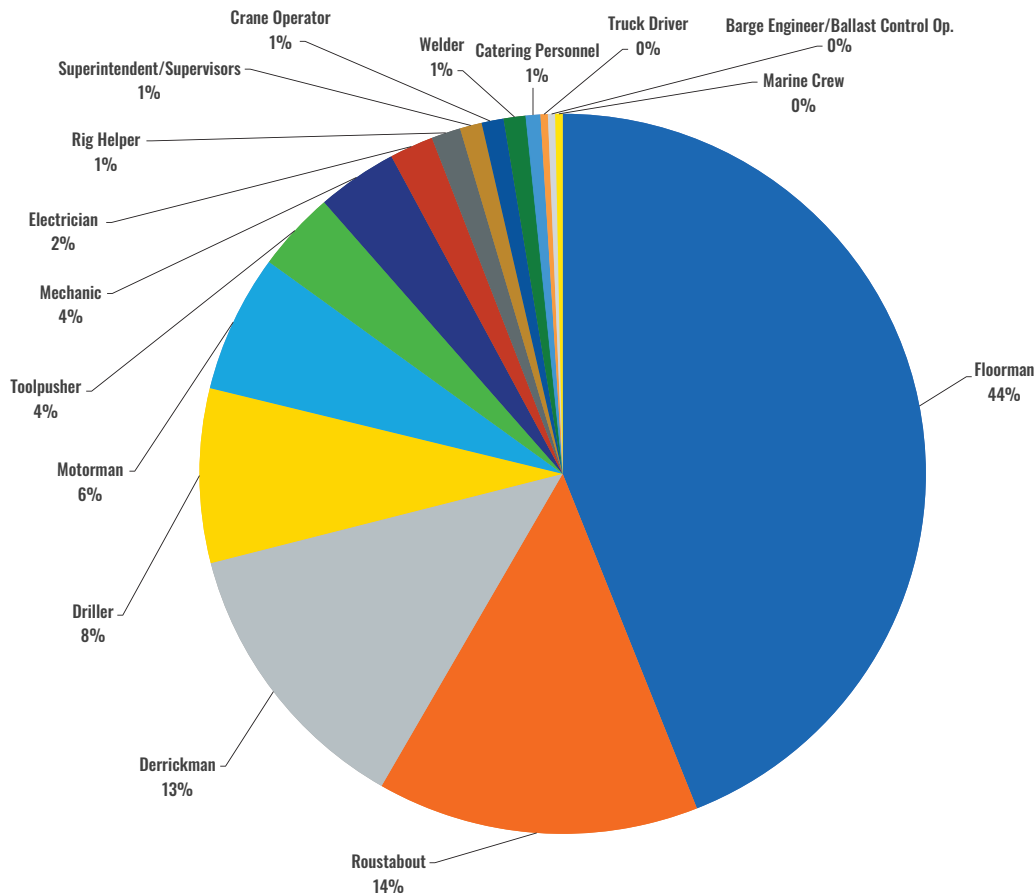
Based on 1,112 Incidents

*Note: Some pie charts may not appear to show all the slices due to the small percentage the slice represents.*



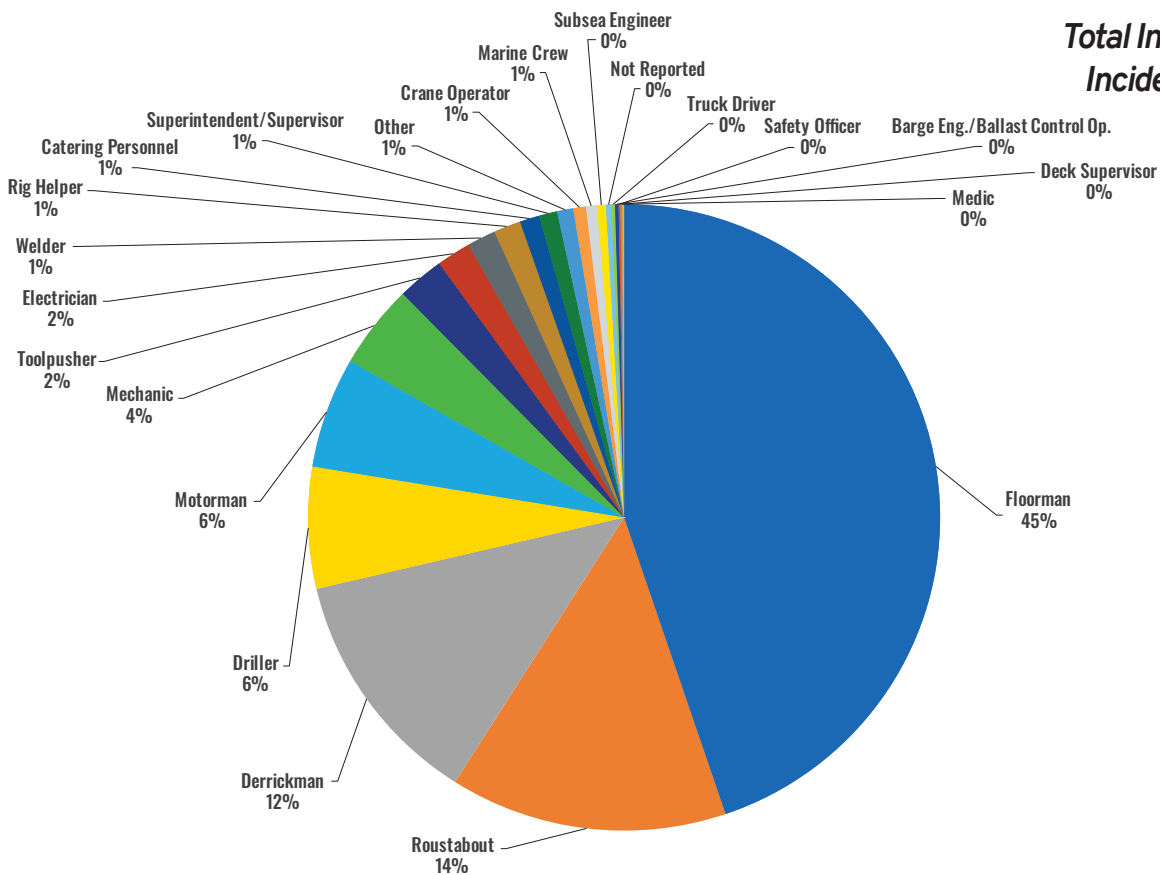
**Total Industry Lost Time Incidents by Occupation (Chart 3)**

Based on 313 Incidents



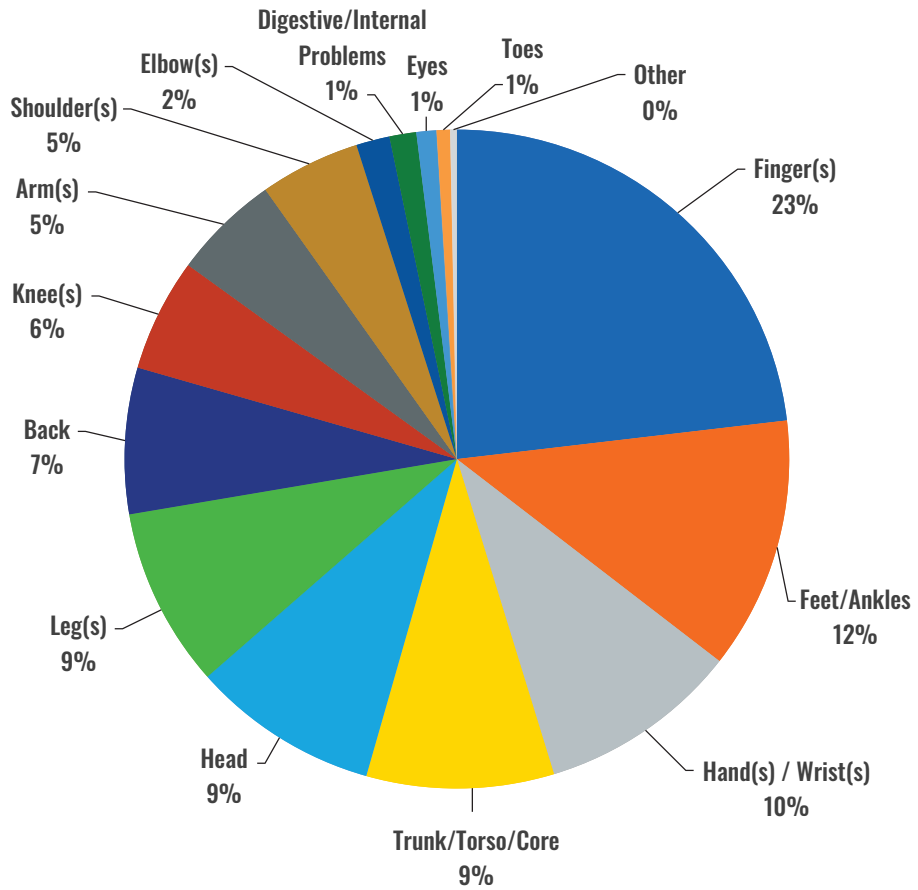
**Total Industry Recordable Incidents by Occupation (Chart 4)**

Based on 1,112 Incidents



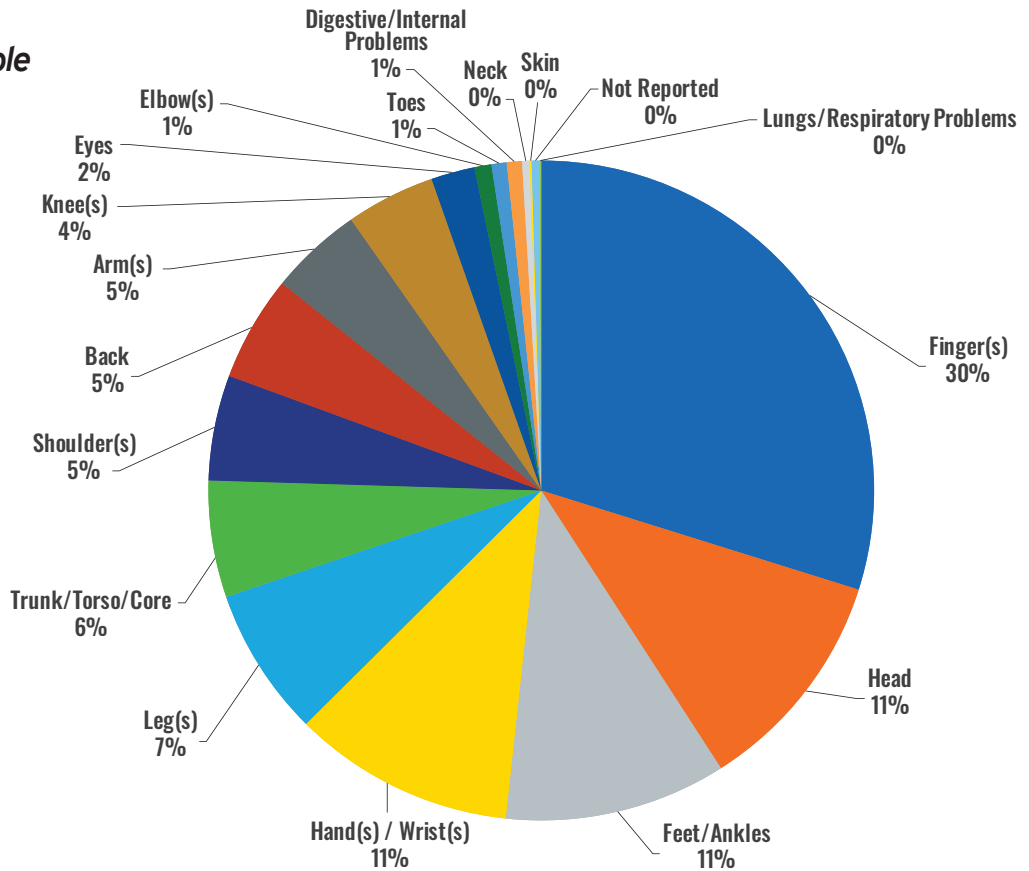
**Total Industry Lost Time Incidents by Body Part (Chart 5)**

Based on 313 Incidents

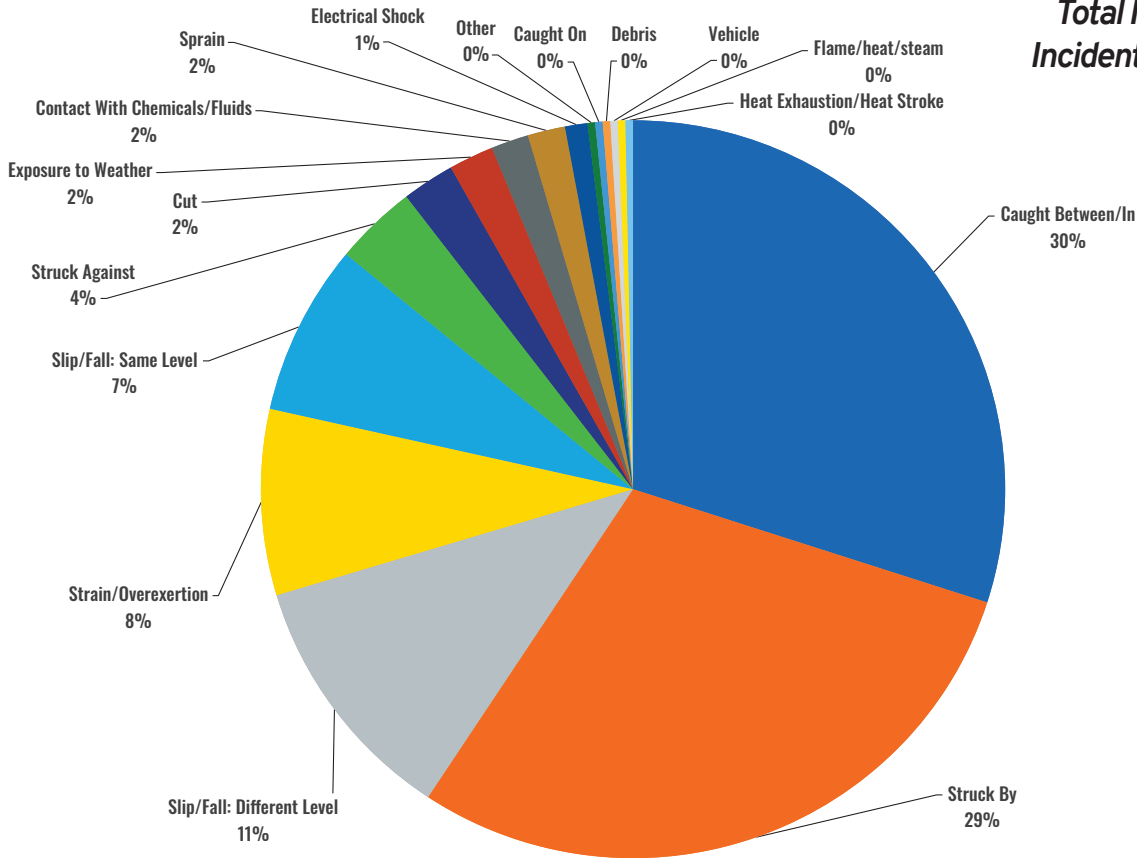


**Total Industry Recordable Incidents by Body Part (Chart 6)**

Based on 1,112 Incidents

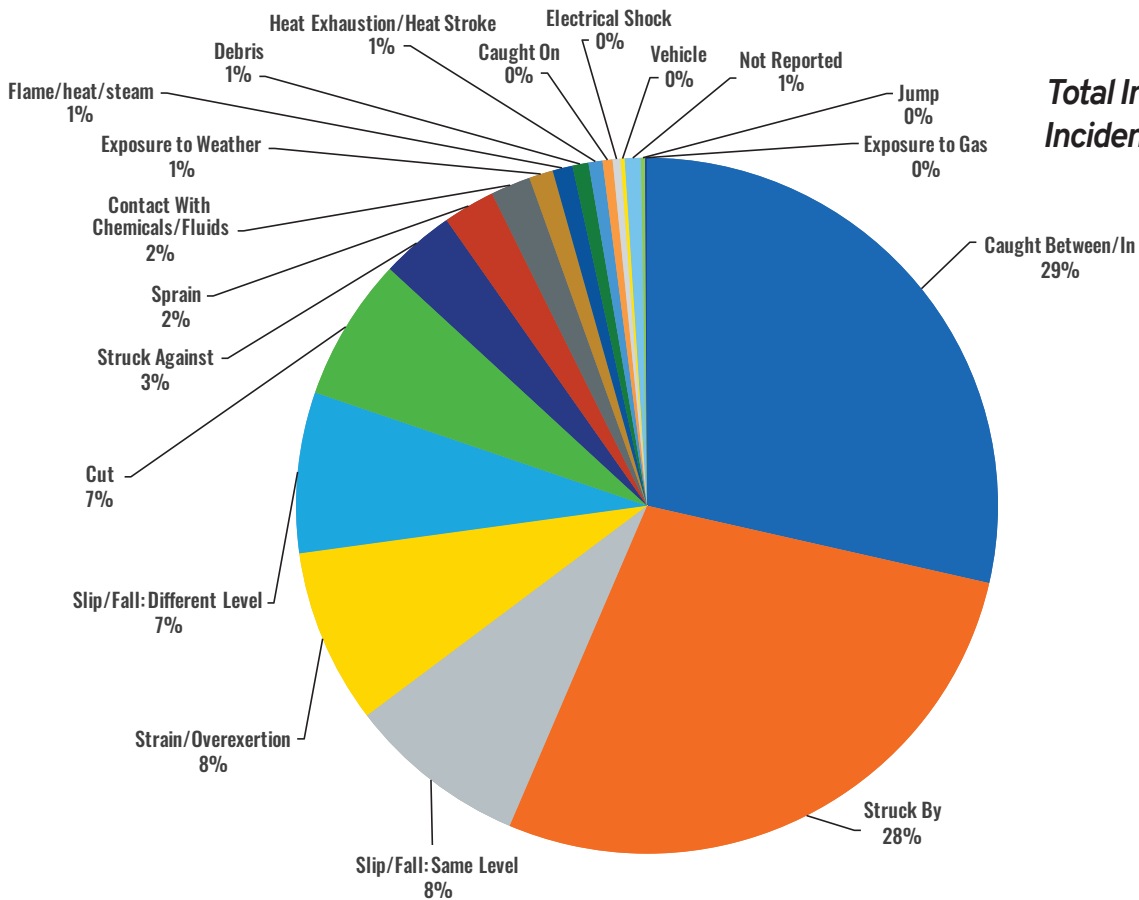


**Total Industry Lost Time Incidents by Incident Type (Chart 7)**



Based on 313 Incidents

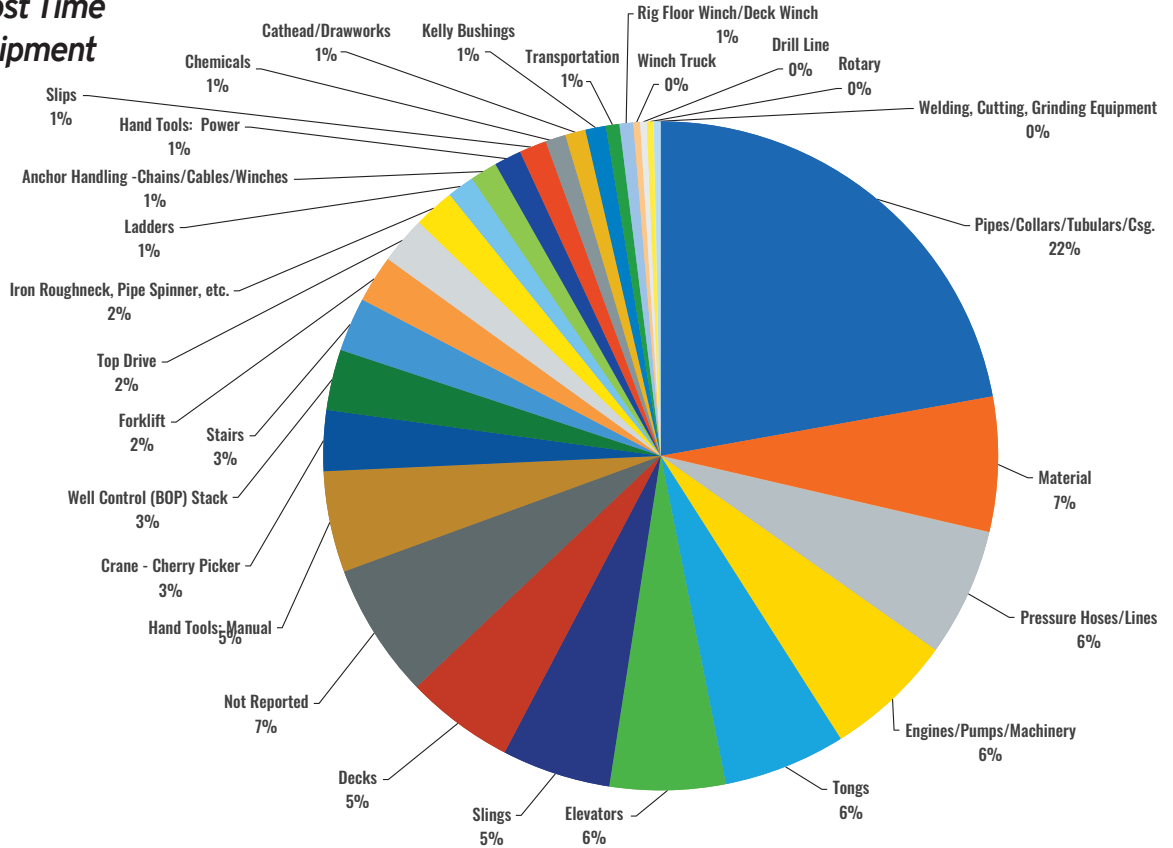
**Total Industry Recordable Incidents by Incident Type (Chart 8)**



Based on 1,112 Incidents

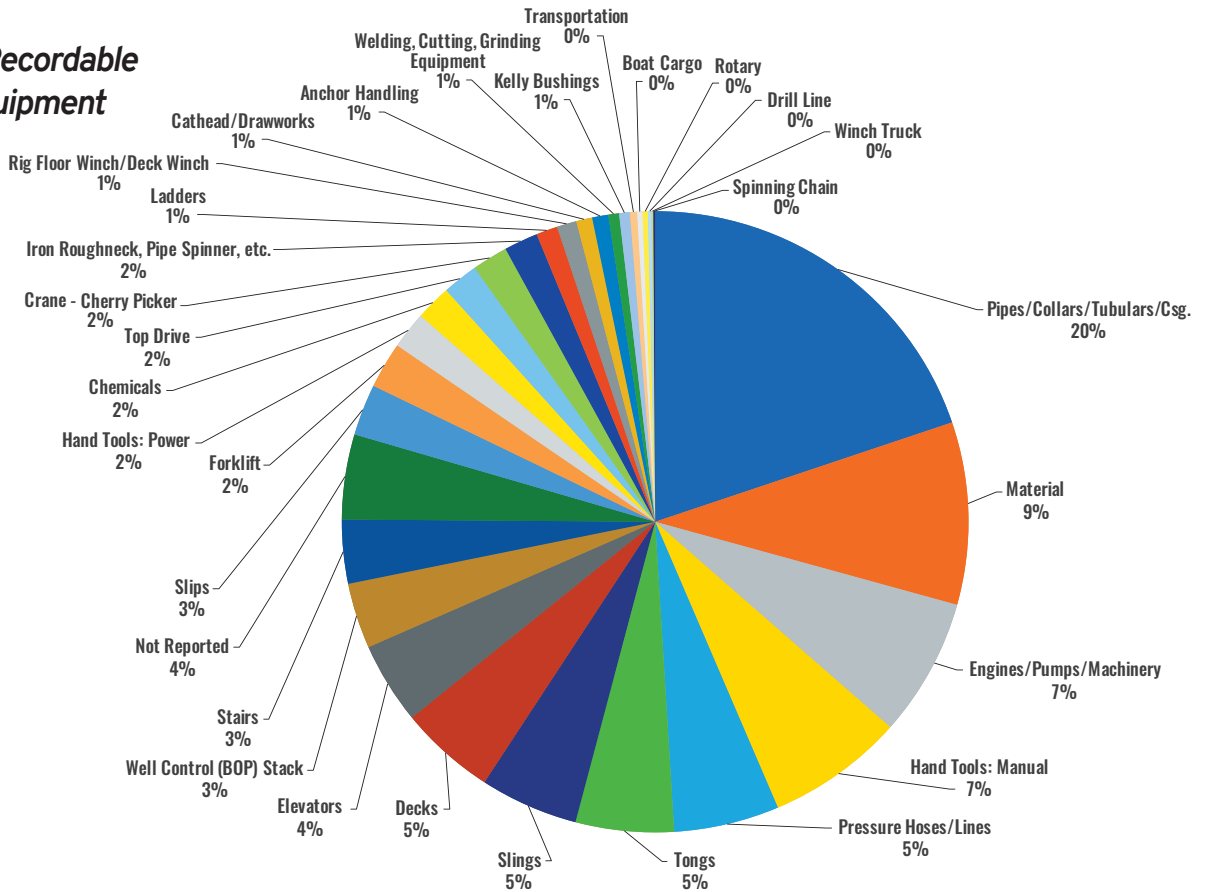
**Total Industry Lost Time Incidents by Equipment (Chart 9)**

Based on 313 Incidents



**Total Industry Recordable Incidents by Equipment (Chart 10)**

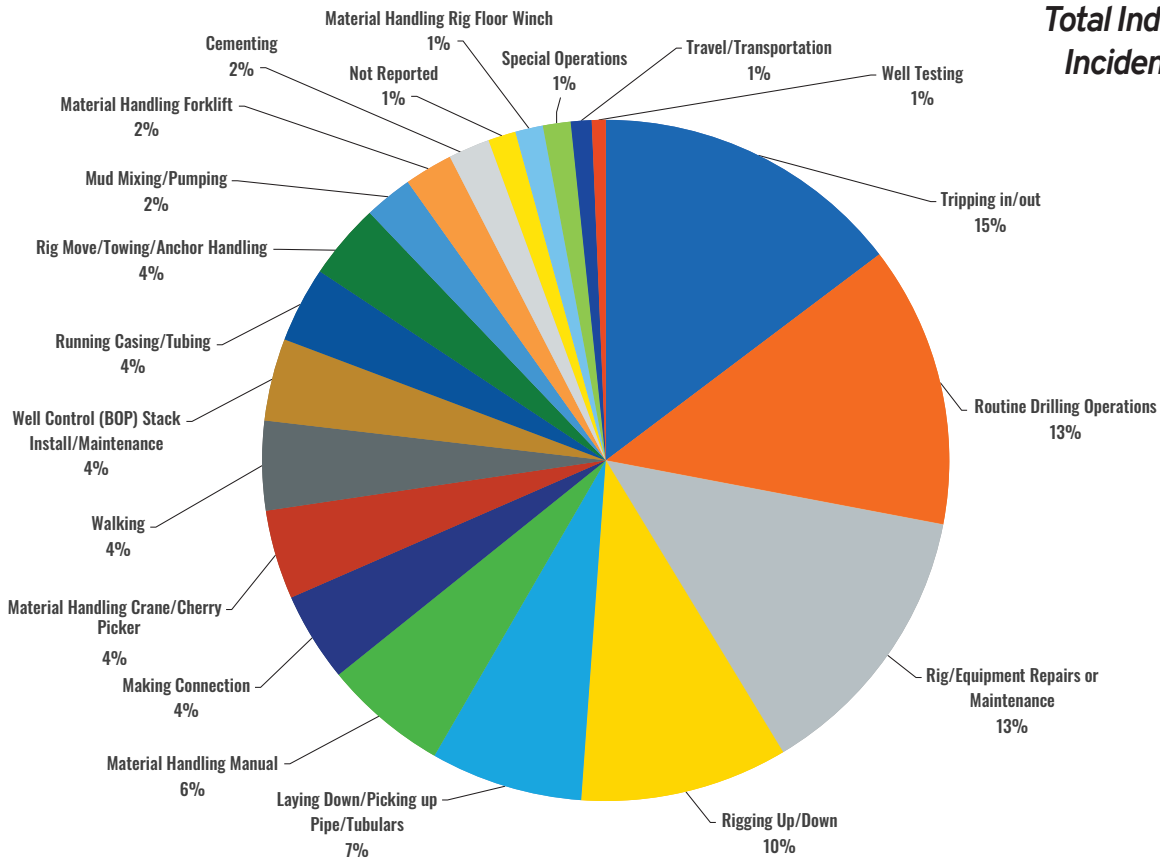
Based on 1,112 Incidents





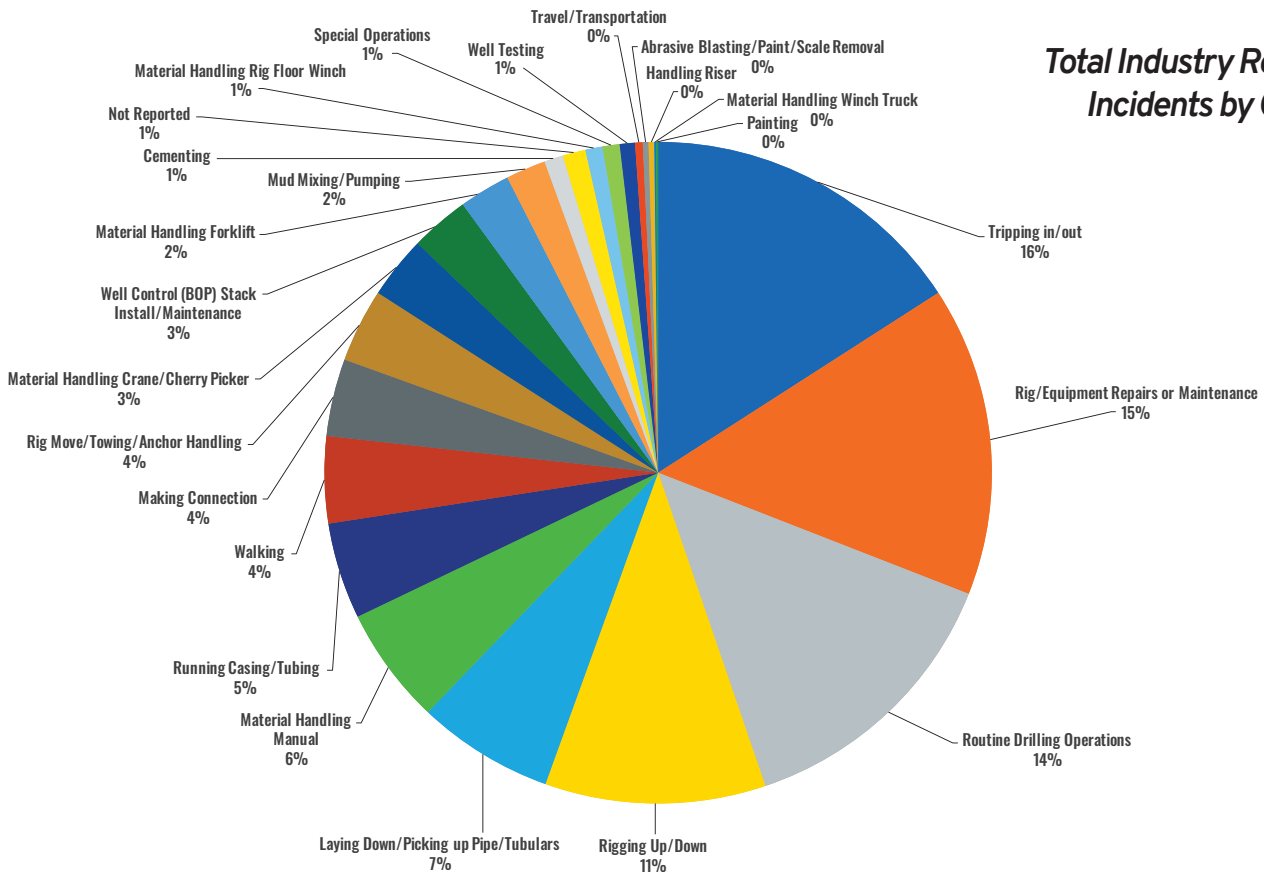
**Total Industry Lost Time Incidents by Operation (Chart 11)**

Based on 313 Incidents



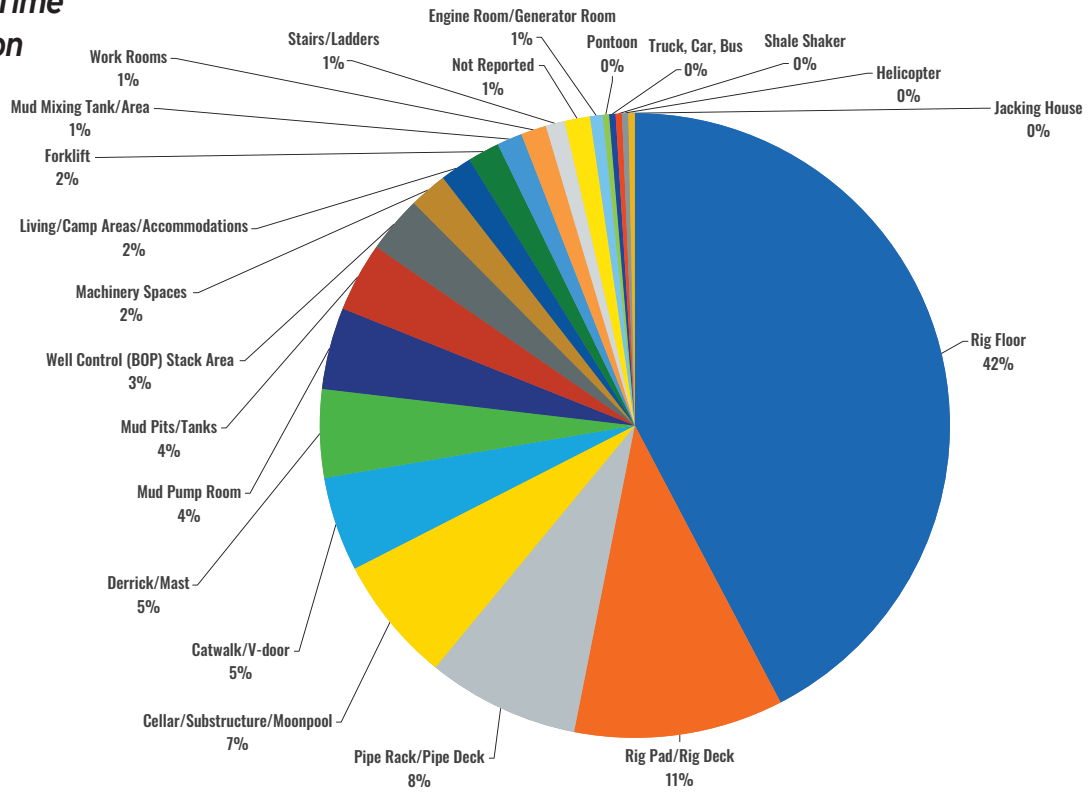
**Total Industry Recordable Incidents by Operation (Chart 12)**

Based on 1,112 Incidents



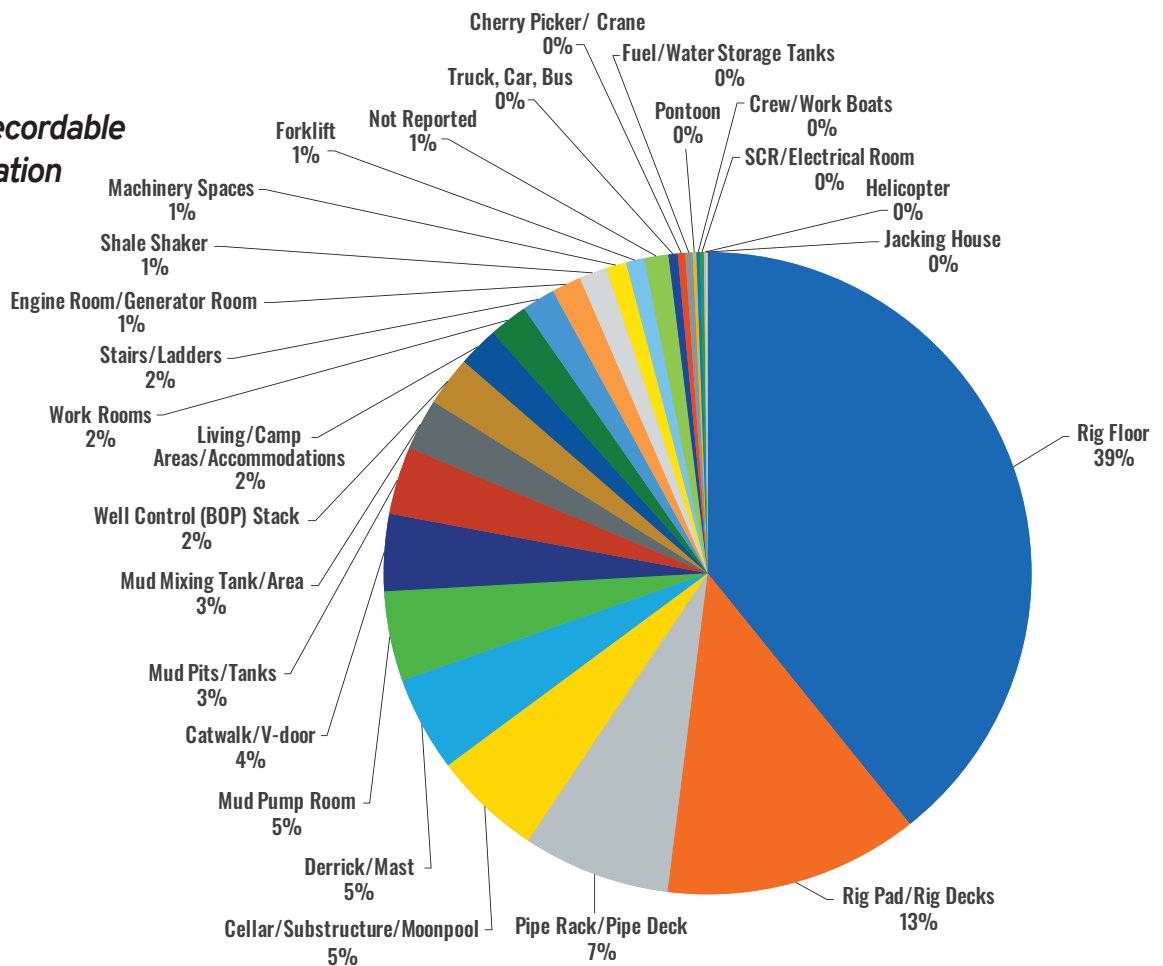
**Total Industry Lost Time Incidents by Location (Chart 13)**

Based on 313 Incidents



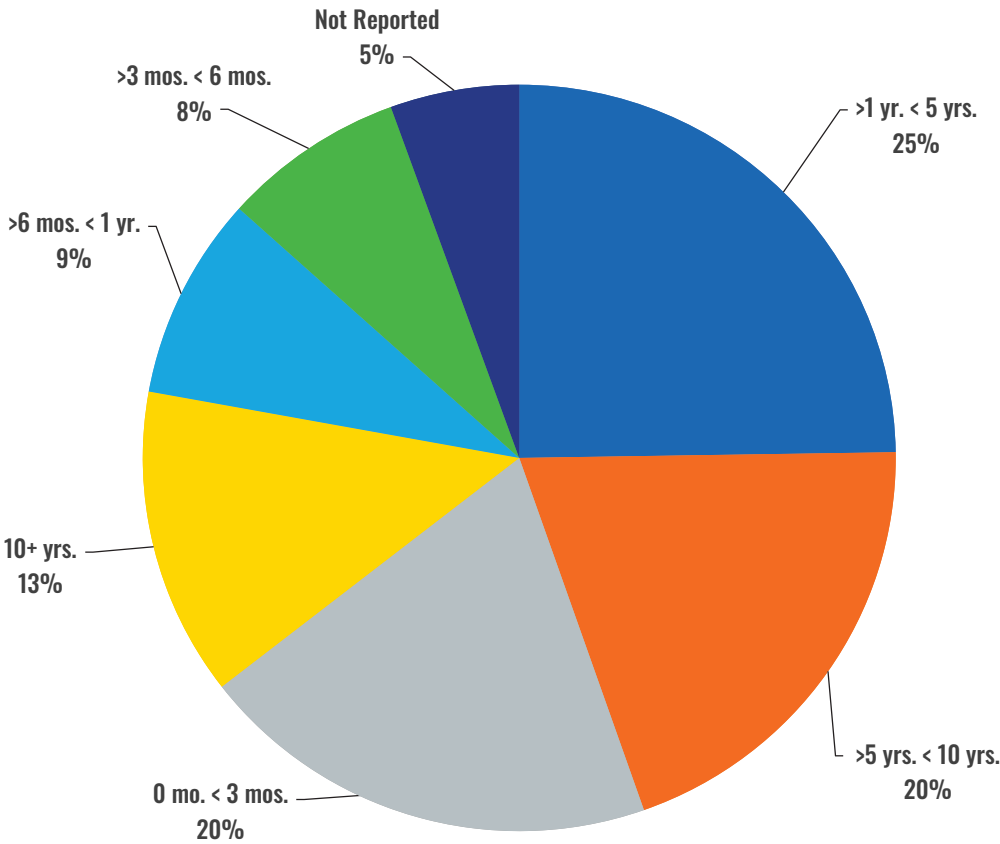
**Total Industry Recordable Incidents by Location (Chart 14)**

Based on 1,112 Incidents



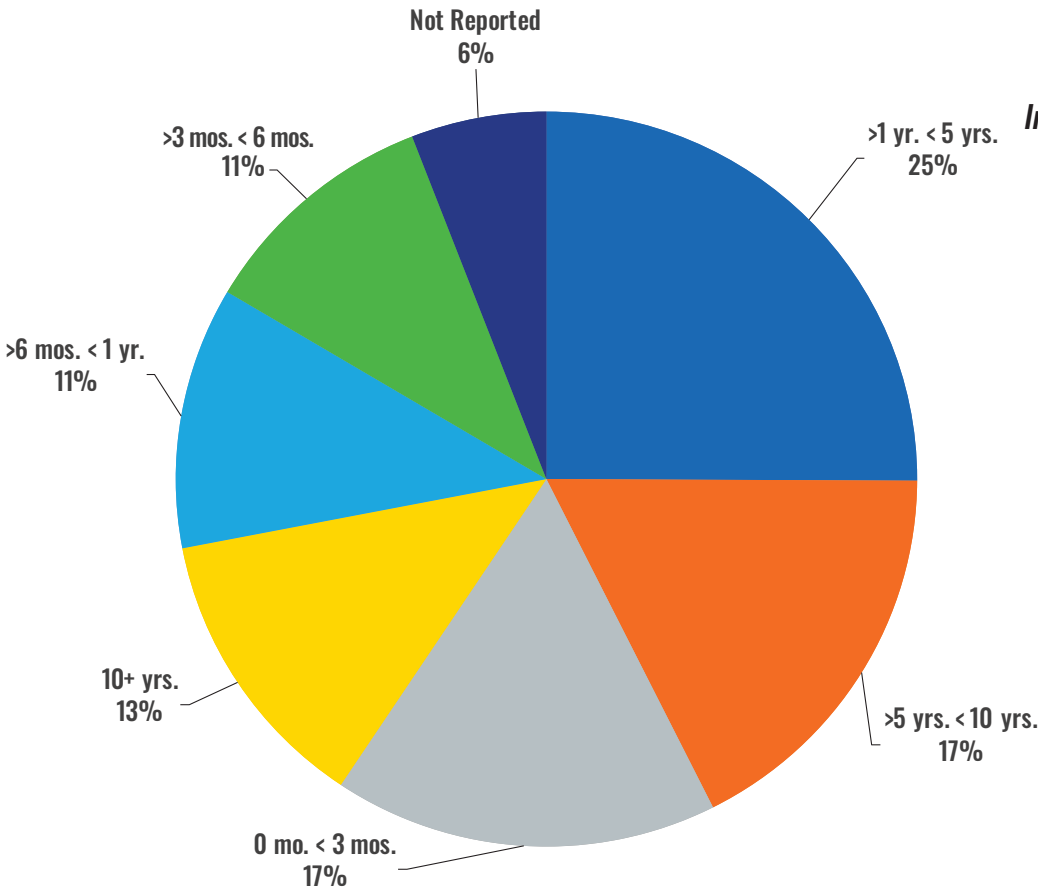
**Total Industry Lost Time Incidents by Time in Service (Chart 15)**

Based on 313 Incidents



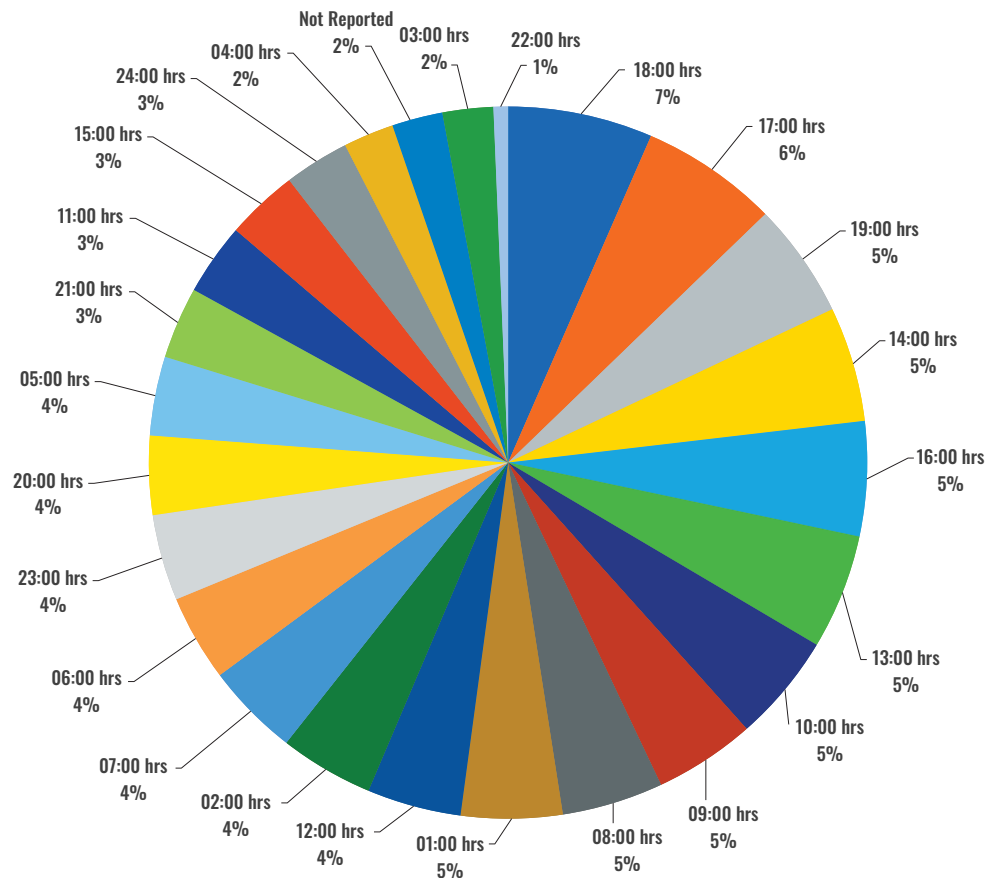
**Total Industry Recordable Incidents by Time in Service (Chart 16)**

Based on 1,112 Incidents



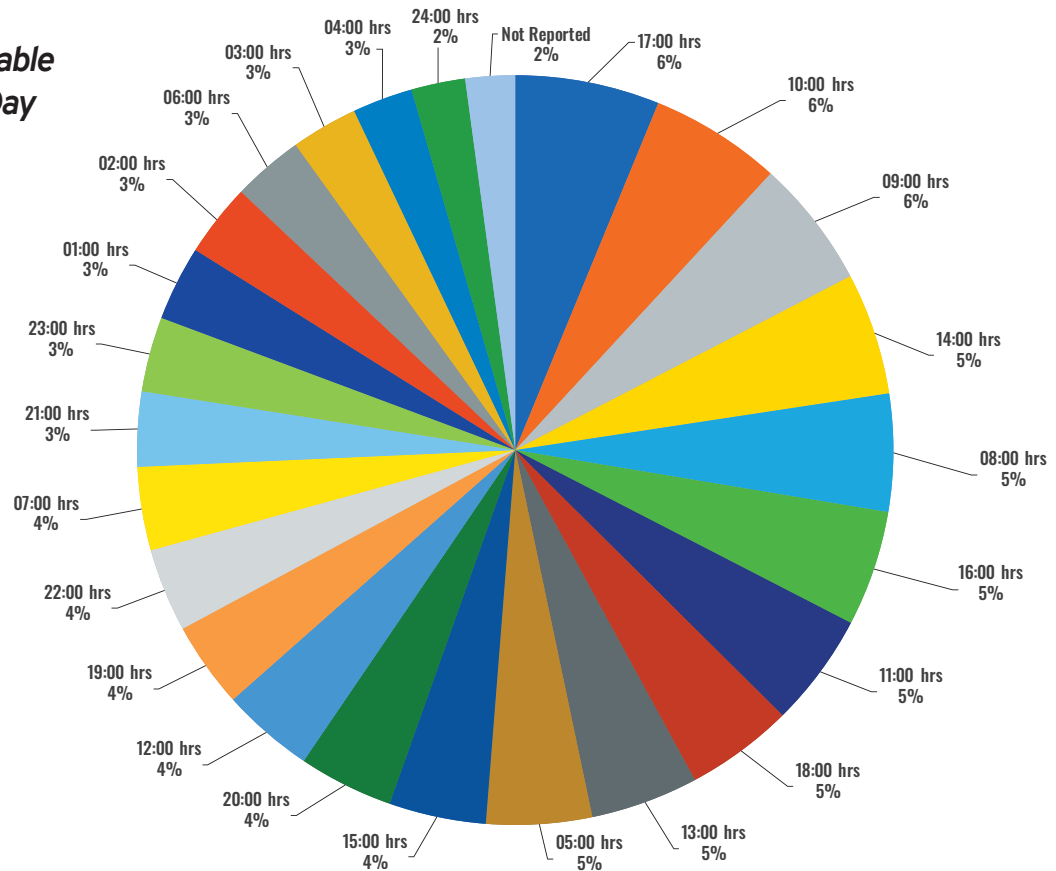
**Total Industry Lost Time Incidents by Time of Day (Chart 17)**

Based on 313 Incidents



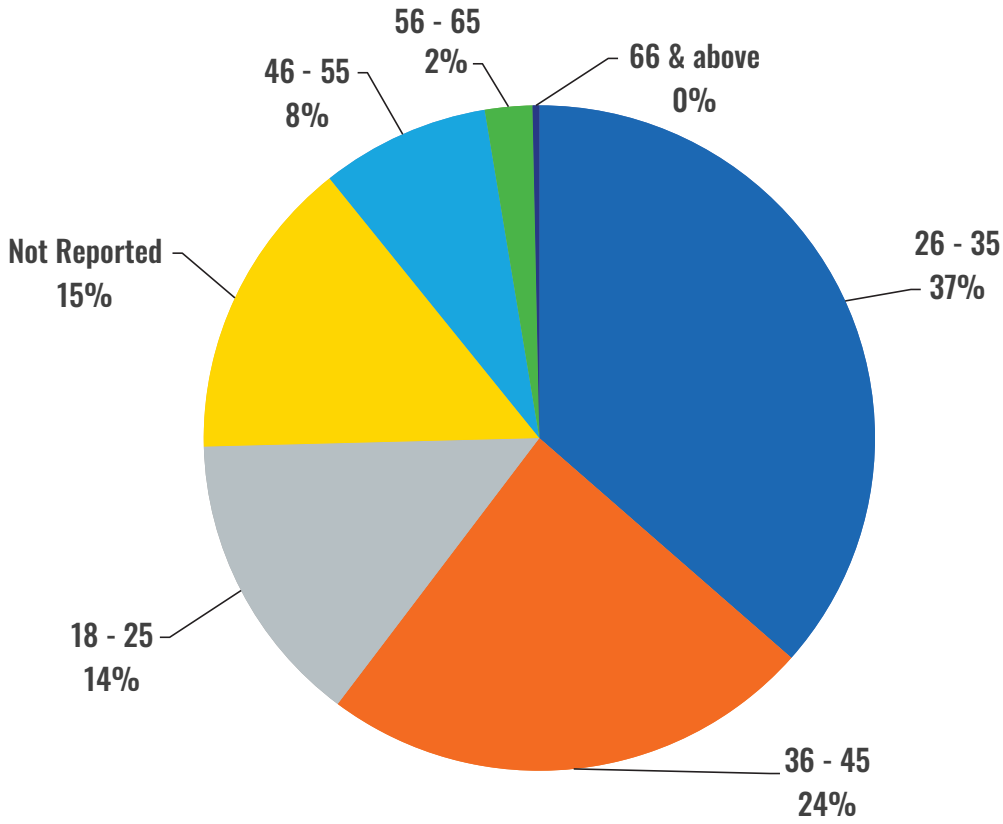
**Total Industry Recordable Incidents by Time of Day (Chart 18)**

Based on 1,112 Incidents



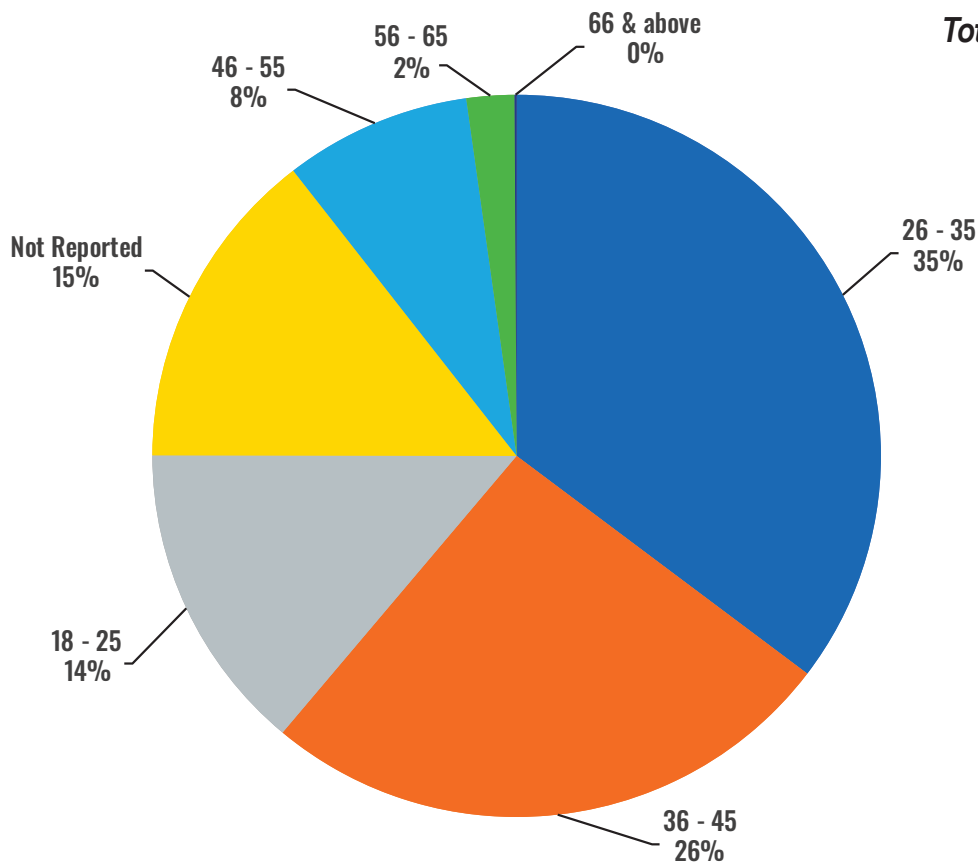
**Total Industry Lost Time Incidents by Age (Chart 19)**

Based on 313 Incidents



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

Based on 1,112 Incidents



## 2022 ISP Program Regional Totals

## Combined Land & Water

IADC 2022 Africa Totals (Table 4)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	28,501,102	13,186,564	41,687,666
TOTAL MEDICAL TREATMENT INCIDENTS	18	2	20
TOTAL RESTRICTED WORK INCIDENTS	126	5	131
TOTAL LOST TIME INCIDENTS	63	4	67
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	207	11	218
MTO INCIDENCE RATE	0.13	0.03	0.10
RWC INCIDENCE RATE	0.88	0.08	0.63
LTI INCIDENCE RATE	0.44	0.06	0.32
LTI FREQUENCY RATE	2.21	0.30	1.61
DART INCIDENCE RATE	1.33	0.14	0.95
DART FREQUENCY RATE	6.63	0.68	4.75
RECORDABLE INCIDENCE RATE	1.45	0.17	1.05
RECORDABLE FREQUENCY RATE	7.26	0.83	5.23

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

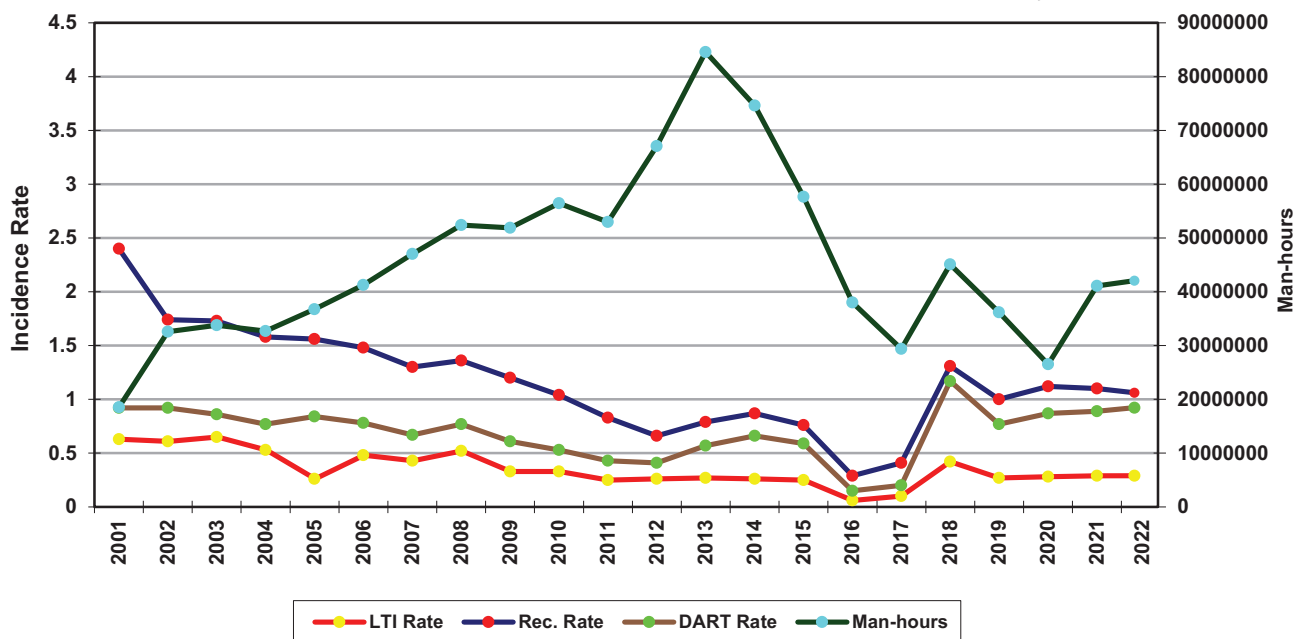
DART FREQUENCY RATE = (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

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

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

Companies Reporting: Land - 9 Water - 13

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



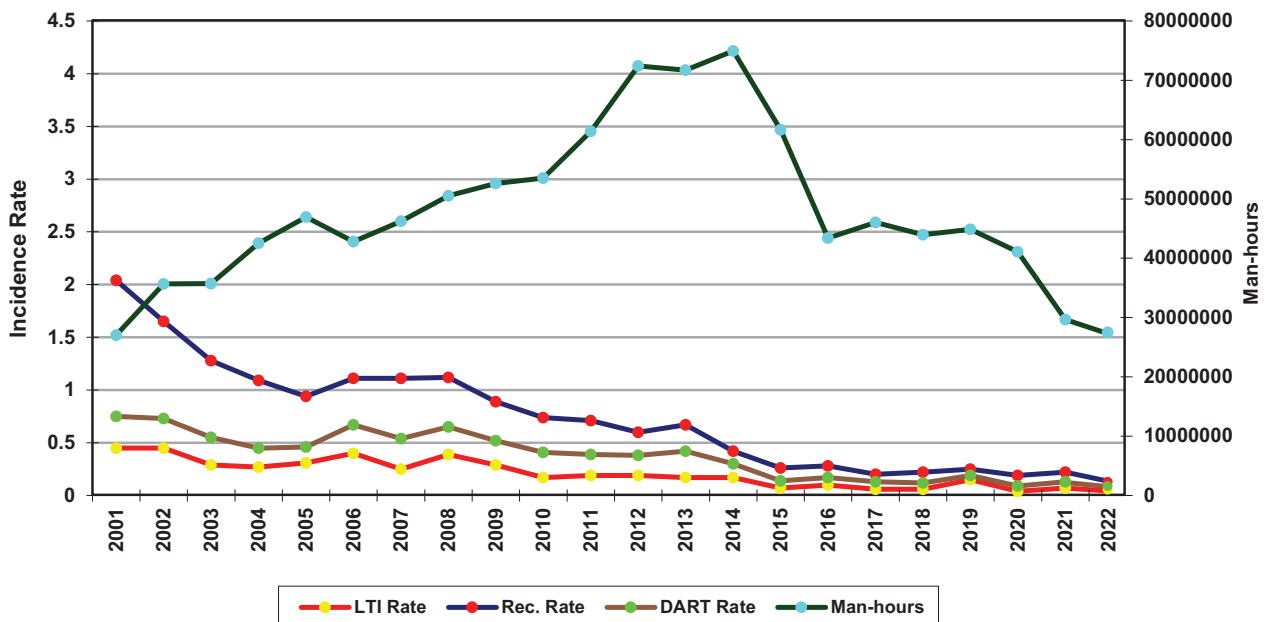
IADC 2022 Asia Pacific Totals (Table 5)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	5,995,292	21,910,843	27,906,135
TOTAL MEDICAL TREATMENT INCIDENTS	3	7	10
TOTAL RESTRICTED WORK INCIDENTS	3	4	7
TOTAL LOST TIME INCIDENTS	1	4	5
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	7	15	22
MTO INCIDENCE RATE	0.10	0.06	0.07
RWC INCIDENCE RATE	0.10	0.04	0.05
LTI INCIDENCE RATE	0.03	0.04	0.04
LTI FREQUENCY RATE	0.17	0.18	0.18
DART INCIDENCE RATE	0.13	0.07	0.09
DART FREQUENCY RATE	0.67	0.37	0.43
RECORDABLE INCIDENCE RATE	0.23	0.14	0.16
RECORDABLE FREQUENCY RATE	1.17	0.68	0.79

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 - 23

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



**IADC 2022 Australasia Totals (Table 6)**

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	2,605,545	2,712,544	5,318,089
TOTAL MEDICAL TREATMENT INCIDENTS	5	8	13
TOTAL RESTRICTED WORK INCIDENTS	2	4	6
TOTAL LOST TIME INCIDENTS	4	1	5
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	11	13	24
MTO INCIDENCE RATE	0.38	0.59	0.49
RWC INCIDENCE RATE	0.15	0.29	0.22
LTI INCIDENCE RATE	0.31	0.07	0.19
LTI FREQUENCY RATE	1.54	0.37	0.96
DART INCIDENCE RATE	0.46	0.37	0.42
DART FREQUENCY RATE	2.30	1.84	2.07
RECORDABLE INCIDENCE RATE	0.84	0.96	0.90
RECORDABLE FREQUENCY RATE	4.22	4.79	4.51

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

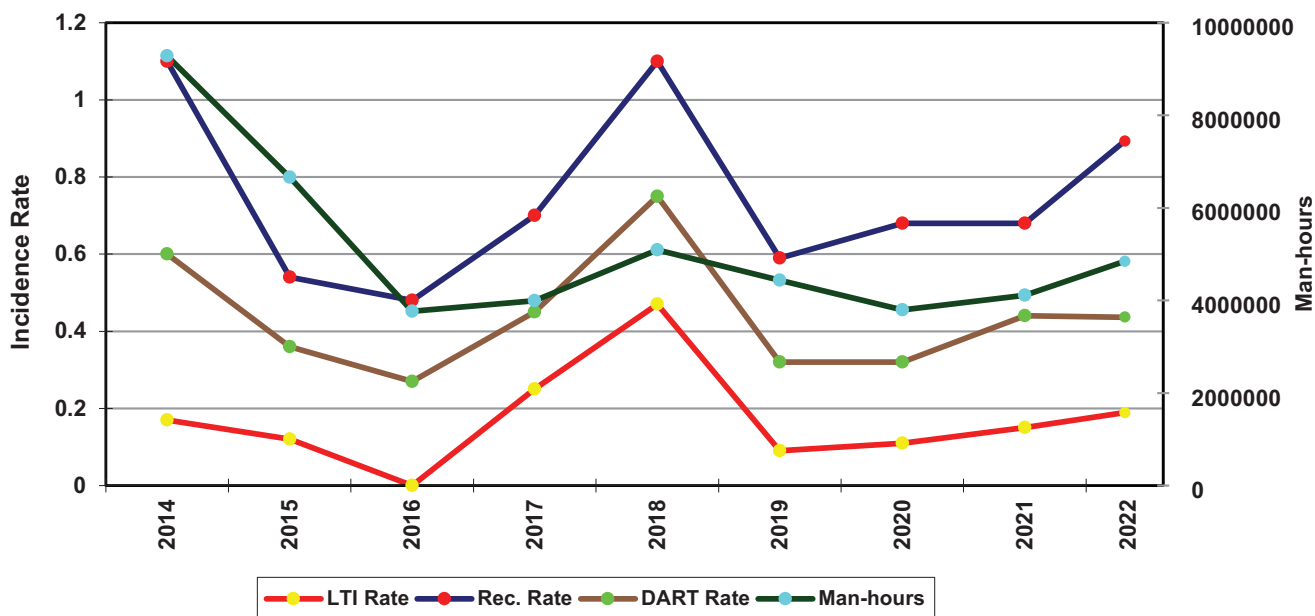
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

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

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

**Companies Reporting: Land - 4 Water - 5**

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





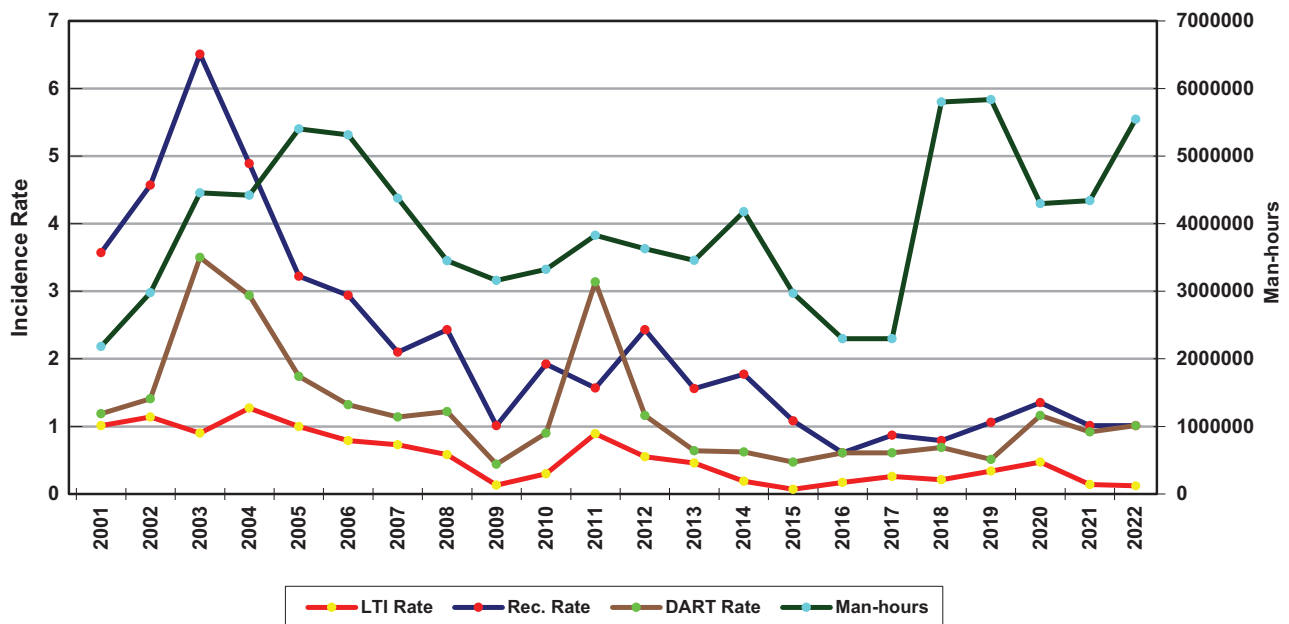
IADC 2022 Canada Totals (Table 7)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	4,814,264	852,259	5,666,523
TOTAL MEDICAL TREATMENT INCIDENTS	0	0	0
TOTAL RESTRICTED WORK INCIDENTS	23	2	25
TOTAL LOST TIME INCIDENTS	3	1	4
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	26	3	29
MTO INCIDENCE RATE	0.00	0.00	0.00
RWC INCIDENCE RATE	0.96	0.47	0.88
LTI INCIDENCE RATE	0.12	0.23	0.14
LTI FREQUENCY RATE	0.62	1.17	0.71
DART INCIDENCE RATE	1.08	0.70	1.02
DART FREQUENCY RATE	5.40	3.52	5.12
RECORDABLE INCIDENCE RATE	1.08	0.70	1.02
RECORDABLE FREQUENCY RATE	5.40	3.52	5.12

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

Canada Total LTI & Recordable Incidence Rates vs Man-hours (Figure 7)



**IADC 2022 Central America & Caribbean Totals (Table 8)**

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	626,758	5,729,052	6,355,810
TOTAL MEDICAL TREATMENT INCIDENTS	2	4	6
TOTAL RESTRICTED WORK INCIDENTS	1	11	12
TOTAL LOST TIME INCIDENTS	1	7	8
TOTAL FATALITIES	0	1	1
TOTAL RECORDABLES	4	23	27
MTO INCIDENCE RATE	0.64	0.14	0.19
RWC INCIDENCE RATE	0.32	0.38	0.38
LTI INCIDENCE RATE	0.32	0.28	0.28
LTI FREQUENCY RATE	1.60	1.40	1.42
DART INCIDENCE RATE	0.64	0.66	0.66
DART FREQUENCY RATE	3.19	3.32	3.30
RECORDABLE INCIDENCE RATE	1.28	0.80	0.85
RECORDABLE FREQUENCY RATE	6.38	4.01	4.25

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

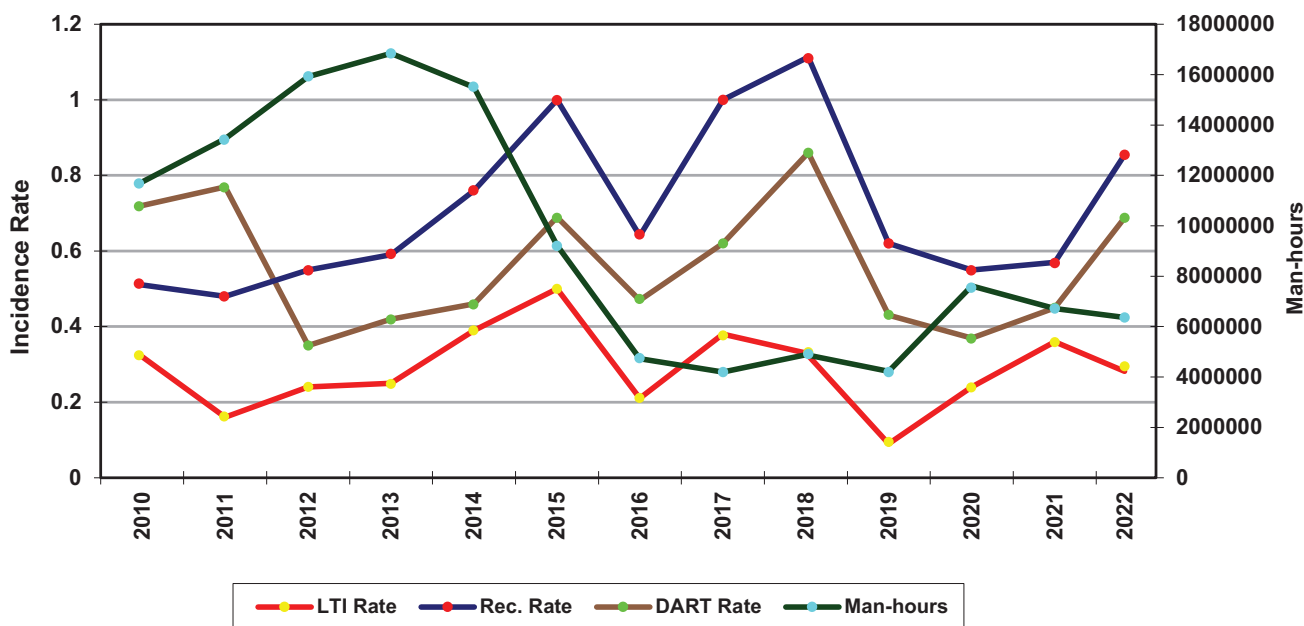
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

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)**



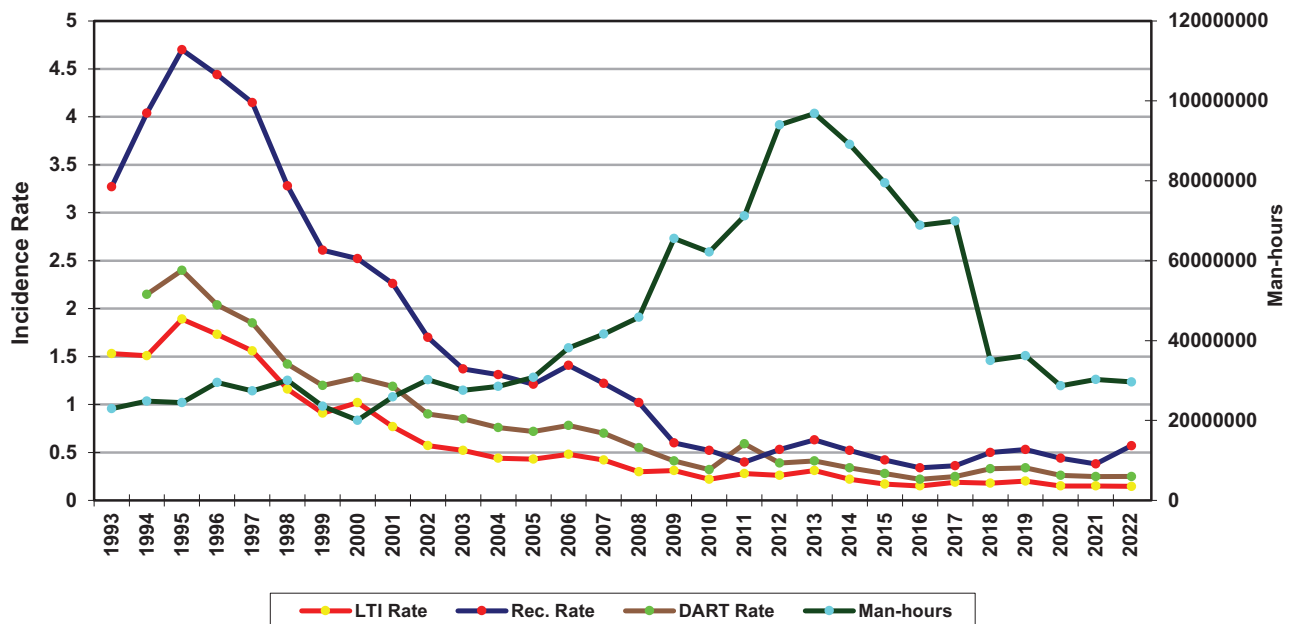
IADC 2022 European Totals (Table 9)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	3,947,782	23,059,521	27,007,303
TOTAL MEDICAL TREATMENT INCIDENTS	0	25	25
TOTAL RESTRICTED WORK INCIDENTS	2	24	26
TOTAL LOST TIME INCIDENTS	8	14	22
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	10	63	73
MTO INCIDENCE RATE	0.00	0.22	0.19
RWC INCIDENCE RATE	0.10	0.21	0.19
LTI INCIDENCE RATE	0.41	0.12	0.16
LTI FREQUENCY RATE	2.03	0.61	0.81
DART INCIDENCE RATE	0.51	0.33	0.36
DART FREQUENCY RATE	2.53	1.65	1.78
RECORDABLE INCIDENCE RATE	0.51	0.55	0.54
RECORDABLE FREQUENCY RATE	2.53	2.73	2.70

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 - 16

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



**IADC 2022 Middle East Totals (Table 10)**

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	87,113,573	44,529,434	131,643,007
TOTAL MEDICAL TREATMENT INCIDENTS	28	14	42
TOTAL RESTRICTED WORK INCIDENTS	37	18	55
TOTAL LOST TIME INCIDENTS	26	10	36
TOTAL FATALITIES	5	2	7
TOTAL RECORDABLES	96	44	140
MTO INCIDENCE RATE	0.06	0.06	0.06
RWC INCIDENCE RATE	0.08	0.08	0.08
LTI INCIDENCE RATE	0.07	0.05	0.07
LTI FREQUENCY RATE	0.36	0.27	0.33
DART INCIDENCE RATE	0.16	0.13	0.15
DART FREQUENCY RATE	0.78	0.67	0.74
RECORDABLE INCIDENCE RATE	0.22	0.20	0.21
RECORDABLE FREQUENCY RATE	1.10	0.99	1.06

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

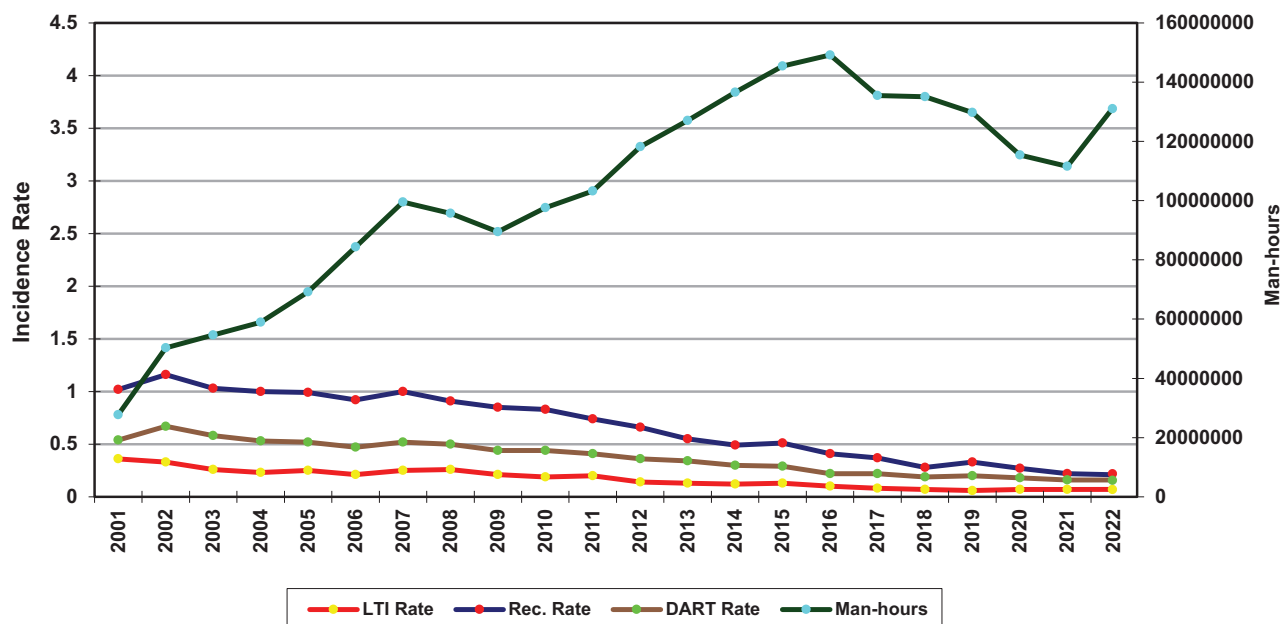
DART FREQUENCY RATE - (LTIs+FTLs+RWCs) X 1,000,000 / MAN-HOURS

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

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

**Companies Reporting: Land - 14 Water - 19**

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



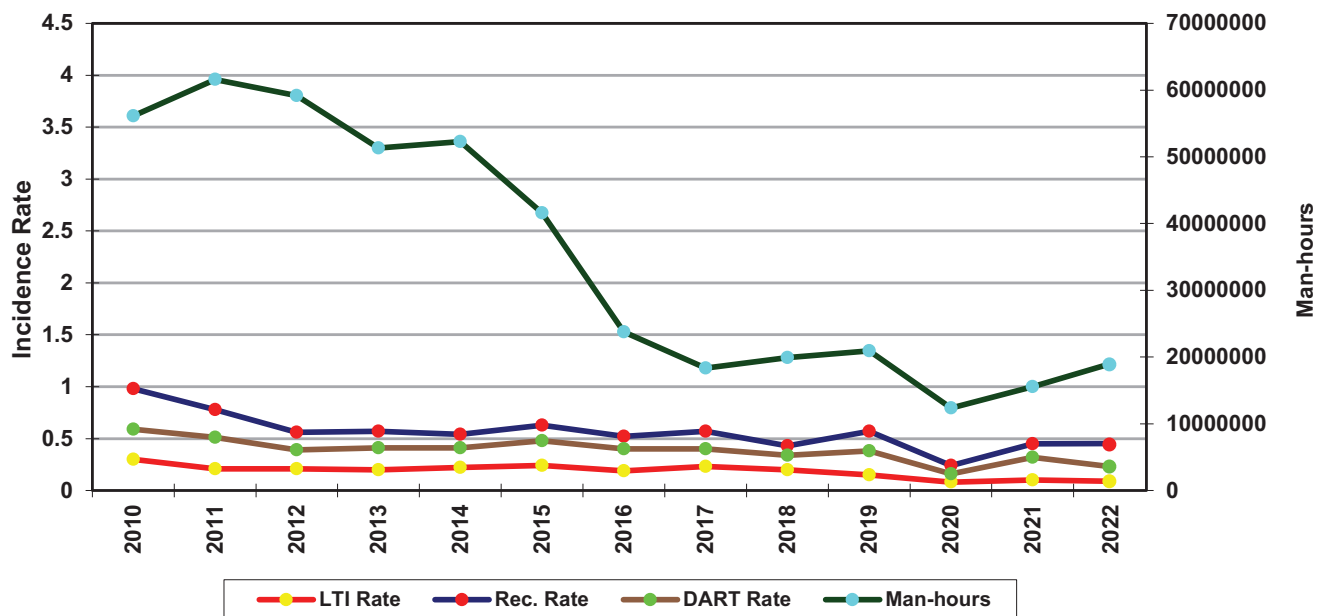
IADC 2022 South American Totals (Table 11)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	8,454,382	10,987,815	19,442,197
TOTAL MEDICAL TREATMENT INCIDENTS	3	11	14
TOTAL RESTRICTED WORK INCIDENTS	12	10	22
TOTAL LOST TIME INCIDENTS	5	6	11
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	20	27	47
MTO INCIDENCE RATE	0.07	0.20	0.14
RWC INCIDENCE RATE	0.28	0.18	0.23
LTI INCIDENCE RATE	0.12	0.11	0.11
LTI FREQUENCY RATE	0.59	0.55	0.57
DART INCIDENCE RATE	0.40	0.29	0.34
DART FREQUENCY RATE	2.01	1.46	1.70
RECORDABLE INCIDENCE RATE	0.47	0.49	0.48
RECORDABLE FREQUENCY RATE	2.37	2.46	2.42

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

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



IADC 2022 US Totals (Table 12)

	LAND	WATER	COMBINED
TOTAL MAN-HOURS	50,070,227	14,961,093	65,031,320
TOTAL MEDICAL TREATMENT INCIDENTS	149	27	176
TOTAL RESTRICTED WORK INCIDENTS	177	17	194
TOTAL LOST TIME INCIDENTS	144	11	155
TOTAL FATALITIES	6	1	7
TOTAL RECORDABLES	476	56	532
MTO INCIDENCE RATE	0.60	0.36	0.54
RWC INCIDENCE RATE	0.71	0.23	0.60
LTI INCIDENCE RATE	0.60	0.16	0.50
LTI FREQUENCY RATE	3.00	0.80	2.49
DART INCIDENCE RATE	1.31	0.39	1.09
DART FREQUENCY RATE	6.53	1.94	5.47
RECORDABLE INCIDENCE RATE	1.90	0.75	1.64
RECORDABLE FREQUENCY RATE	9.51	3.74	8.18

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 - 22 Water - 10

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

