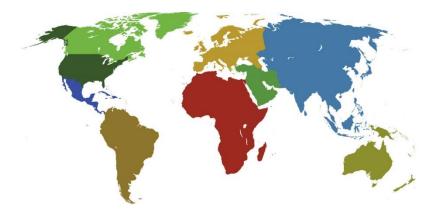


IADC ISP PROGRAM

2016



Summary of Occupational Incidents

(Industry Totals)



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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. Even though there was a decrease in rig demand in 2016, the incidence rates improved slightly over 2015. 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 manhours.

The Summary of Occupational Incidents (SOI) is compiled annually from data volunteered by drilling contractors worldwide to the IADC ISP Program. During 2016, 95 contractors participated in the ISP representing a total of 396,233,172 million man-hours worked. Contractors striving for safety improvement by participating in the ISP program reported 909 Recordable incidents, 254 Lost Time incidents including 9 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

2016 saw the drilling industry's worldwide Lost Time Incidence Rate improve to 0.13 which is an 27.78% improvement of the 2015 report of 0.18. The 2016 Recordable Incident rate improved to 0.46 which is a 23.33% improvement over the 2015 report of 0.60. 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 0.13 in 2016, which is a 107 fold improvement.

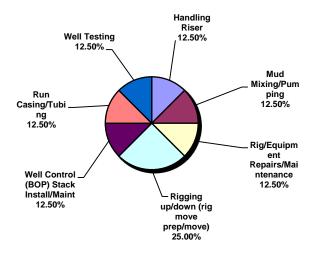
Fatalities:

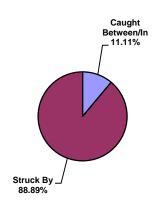
In 2016 the industry's fatalities increased to 9 incidents compared to 8 incidents reported in 2015. According to the data reported in 2016, two (2) fatalities occurred to an employee who had ten or more years of service with the Four (4) fatalities occurred to employees who had more than one year but less than five years of service and one (1) with less than three months of service. One (1) victim had worked for the company between five years and ten years. Two (2) fatalities occurred during Rigging up/down. Eight (8) victims were struckby while one (1) was due to a caught between incidents. Two (2) of the fatalities occurred to floormen, four (4) fatalities occurred to Drillers (Assistant Driller), two (2) fatalities occurred to derrickmen, and one (1) fatality occurred to a maintenance supervisor.



Fatal Incidents by activity

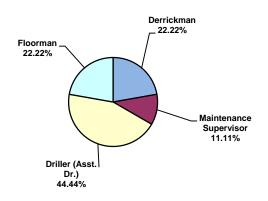
Fatal Incidents by type

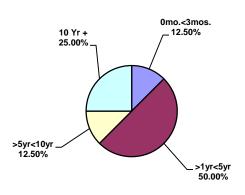




Fatalities by Occupation

Fatalities by Time in Service





Regional Summaries: Man-Hours **Fatalities**

European Land and Offshore categories together worked more than 68 million man-hours in 2016 with one (1) fatality. European offshore accounted for 28.5 million man-hours with no fatalities while European Land had 40.2 million man-hours and one (1) fatality. US Land and Offshore contractors together worked more than 62 million man-hours with four (4) fatalities. US Land had 34 million man-hours with three (3) fatalities while US water had 27.75 million manone (1) fatality. hours and Canadian contractors accounted for 2.29 million manhours and zero (0) fatalities. Canadian Land had 746 thousand man-hours and no fatalities while offshore had 1.5 million man-hours and no

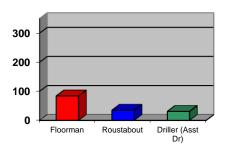
Central America and Caribbean fatalities. accounted for 4.7 million man-hours with zero (0) fatalities. Land operations reported 1 million man-hours and no fatalities while water operations reported just over 3.6 million manhours and no fatalities. Africa combined land and offshore accounted for 38 million man-hours with zero (0) fatalities. Africa Land accounted for 17.86 million man-hours with zero (0) fatalities while Africa Water had 20 million manhours and no fatalities. The Middle East region accounted for 149 million man-hours with three (3) fatalities. The Land division had 100 million man-hours and three (3) fatalities while there were 48 million man-hours and no fatalities for the offshore division. Asia Pacific accounted for 43.4 million man-hours and one (1) fatality.



Water had 34.36 million man-hours and one (1) fatality while the Land Division had 9 million man-hours with no fatalities. **South America** made up 23.77 million man-hours with no fatalities. Land had 11.88 million man-hours and no fatalities while Water had 11.88 million man-hours and no fatalities. **Australasia** made up 3.76 million man-hours with no fatalities. Land had 1.25 million man-hours with no fatalities while offshore had 2.5 million man-hours with no fatalities.

<u>Lost Time and Recordable Incidents by</u> <u>Region</u>

Lost time incidents among **US Offshore** workers was better by 25% from 0.12 in 2015 to 0.09 in 2016. The Total Recordable Incidence Rate also improved 12.5% from 0.56 in 2015 to 0.49 in 2016. US Land LTI Incidence rate worsened 12.9% from 0.31 in 2015 to 0.35 in 2016 and Recordable Incidence Rate improved 1.64% from 1.22 in 2015 to 1.20 in 2016. European Land workers saw their LTI rate worsen 13.3% from 0.15 for 2015 to 0.17 for 2016. Recordable Incidence Rate remained the same in 2015 and 2016 at 0.23. European Offshore workers LTI rate improved 36.8% from 0.19 in 2015 to 0.12 in 2016 while the Recordable Incidence rate improved 20.63% from 0.63 in 2015 to 0.50 in 2016. Canada Land had a 2015 LTI rate of 0.14 which worsened 285.7% to 0.54 for 2016, while their Recordable Incidence improved 1.47% from 1.36 in 2015 to 1.34 for 2016. Canada Offshore workers saw their 2015 LTI rate of 0.0 remain the same for 2016. The Recordable Incidence rate of 0.80 for 2015 improved 67.5% to 0.26 for 2016. Central America and Caribbean Land 2015 LTI rate of 0.98 improved 43.88% to 0.55 for 2016. Their 2015 Recordable Incidence rate of 1.59 worsened 3.14% to 1.64 for 2016. Central America and Caribbean Water 2015 LTI Rate of 0.18 improved 38.89% to 0.11 in 2016. The Recordable rate of 0.61 for 2015 improved 45.9% to 0.33 for 2016. Africa Land LTI rate for 2015 was 0.39 improved 71.79% for 0.11 in LTI by Occupation (Based on 251 incidents)

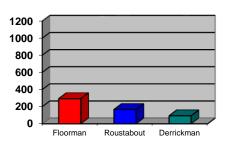


2016. The Recordable Incidence rate improved 66.38% from 1.16 in 2015 to 0.39 in 2016. Africa Water LTI rate of 0.09 for 2015 improved 88.89% to 0.01 for 2016 and their Recordable Incidence rate improved 41.18% from 0.34 in 2015 to 0.20 in 2016. In 2015, Middle East Land had a LTI rate of 0.14 which improved 7.14% to 0.13 in 2016. Their 2015 Recordable Incidence rate of 0.60 improved 18.3% to 0.49 in 2016. Middle East Water LTI rate of 0.10 in 2015 improved 50% to 0.05 in 2016 and their Recordable Incidence rate improved 16.1% from 0.31 in 2015 to 0.26 in 2016. Asia Pacific Land 2015 LTI rate was 0.11 and improved 36.36% to 0.07 in 2016, while their Recordable Incidence rate improved 47.06% from 0.34 in 2015 to 0.18 in 2016. Asia Pacific Water 2015 LTI rate of 0.05 worsened 120% to 0.11 for 2016 and their Recordable Incidence rate worsened 30.43% from 0.23 in 2015 to 0.30 in 2016. In 2015. South America Land had an LTI rate of 0.25 which worsened 8% to 0.27 in 2016 and a 2015 Recordable rate of 0.72 which improved 1.39% to 0.71 in 2016. South America Water 2015 LTI rate was 0.22 which improved 54.54% to 0.10 in 2016 and a 2015 Recordable rate of 0.52 that also improved 34.62% to 0.34 in 2016. Australasia Land had a 2015 LTI rate of 0.15 which improved to 0.00 for 2016 and Recordable incident rate of 0.53 for 2015 which improved 9.43% to 0.48 for 2016. Australasia Water had a 2015 LTI rate of 0.10 which improved to 0.00 for 2016 and a 2015 Recordable incident rate of 0.55 which improved 12.73% to 0.48 for 2016.

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.

REC by Occupation (Based on 900 incidents)

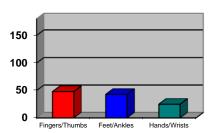


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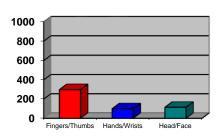


Data from the IADC ISP show that of all the categories, as with previous years, the Floorman position suffers the largest percentage of Lost Time and Recordable injuries.

LTI by Body Part (Based on 251 incidents)

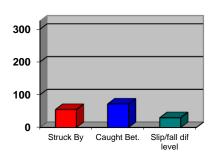


REC by Body Part (Based on 897 incidents)

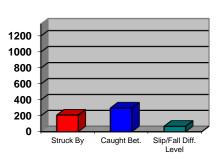


Fingers remained the most vulnerable part of the body.

LTI by Incident Type (Based on 249 incidents)

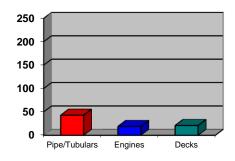


REC by Incident Type (Based on 892 incidents)

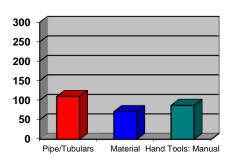


Caught Between accounted for most Lost Time and Recordable injuries and was closely followed by Struck by injuries.

LTI by Equipment (Based on 242 incidents)



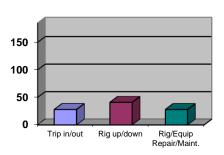
REC by Equipment (Based on 850 incidents)



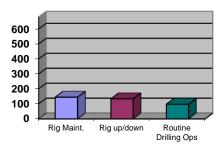
Pipe/Tubulars is the equipment responsible for the most Lost Time and Recordable incidents.



LTI by Activity (Based on 251 incidents)

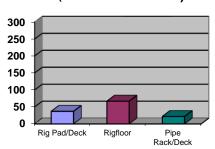


REC by Activity (Based on 898 incidents)

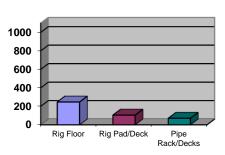


"Rigging up/down" accounted for the most LTI. The most recordable incidents occurred during "Rig/Equipment Repair/Maintenance".

LTI by Location (Based on 249 incidents)

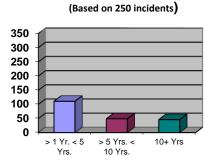


REC by Location (Based on 892 incidents)

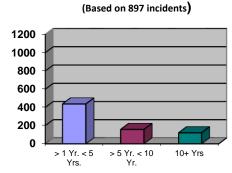


The most Lost Time and Recordable injuries in drilling operations occur on the rig floor.

LTI by Time In Service



REC by Time In Service

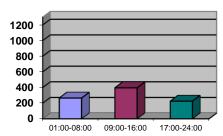


Lost Time and Recordable injuries based on Time in Service were led by employees with between one to five years of service.



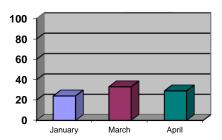
LTI by Time of Day (Based on 245 incidents)

REC by Time of Day (Based on 889 incidents)

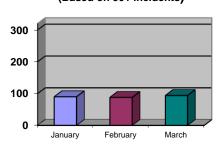


The Most LTI and Recordable incidents occurred between 09:00-16:00 hours.

LTI by Month (Based on 251 incidents)

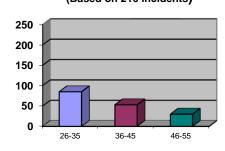


REC by Month (Based on 901 incidents)

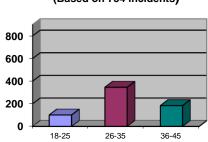


March accounted for the most Lost Time and Recordable incidents.

LTI by Age (Based on 216 incidents)



REC by Age (Based on 754 incidents)



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

Conclusion:

Activity in most sectors of the industry decreased in 2016. Overall, Lost Time incidents rates and Recordable incident rates improved in 2016 as compared to 2015. The industry also saw the number of fatalities increase by 1, but the total number of incidents decreased significantly from 1511 in 2015 to 909 in 2016. Although some regions did not see improvement in 2015, the overall incident and frequency rates are still trending downward.



2016 ISP Program Industry Totals

IADC ISP Program 2016 Final Report (Table 1)

January – December Note: Figures are unaudited

CATEGORY	TOTAL MANHOURS	TOTAL MTOs	TOTAL RWCs	TOTAL LTIs	TOTAL FTLs	DCDD		FREQ.	INCD.	FREQ.	RCRD INCD. RATE	FREQ.
US - Land	34,454,892	72	74	57	3	206	0.35	1.74	0.78	3.89	1.20	5.98
US - Water	27,758082	27	29	11	1	68	0.09	0.43	0.30	1.48	0.49	2.45
Canada - Land	746,777	0	3	2	0	5	0.54	2.68	1.34	6.70	1.34	6.70
Canada - Water	1,550,957	0	2	0	0	2	0.00	0.00	0.26	1.29	0.26	1.29
Central America & Caribbean - Land	1,098,397	3	3	3	0	9	0.55	2.73	1.09	5.46	1.64	8.19
Central America & Caribbean - Water	3,625,577	1	3	2	0	6	0.11	0.55	0.28	1.38	0.33	1.65
European - Land	40,293,752	7	5	33	1	46	0.17	0.84	0.19	0.97	0.23	1.14
European - Water	28,551,227	36	19	17	0	72	0.12	0.60	0.25	1.26	0.50	2.52
Africa - Land	17,869,835	17	8	10	0	35	0.11	0.56	0.20	1.01	0.39	1.96
Africa - Water	20,158,743	9	10	1	0	20	0.01	0.05	0.11	0.55	0.20	0.99
Middle East - Land	100,829,919	125	56	62	3	246	0.13	0.64	0.24	1.20	0.49	2.44
Middle East - Water	48,357,670	19	31	13	0	63	0.05	0.27	0.18	0.91	0.26	1.30
Asia Pacific - Land	9,037,458	3	2	3	0	8	0.07	0.33	0.11	0.55	0.18	0.89
Asia Pacific - Water	34,362,981	21	12	18	1	52	0.11	0.55	0.18	0.90	0.30	1.51
South America Land	11,885,011	7	19	16	0	42	0.27	1.35	0.59	2.94	0.71	3.53
South America Water	11,885,667	8	6	6	0	20	0.10	0.50	0.20	1.01	0.34	1.68
Australasia – Land	1,250,447	0	3	0	0	3	0.00	0.00	0.48	2.40	0.48	2.40
Australasia – Water	2,515,780	4	2	0	0	6	0.00	0.00	0.16	0.79	0.48	2.38
	60 040 074	00	400			274	0.00	4 40	0.50	2.04	0.00	4.40
US Combined	62,212,974		103	68								_
Canada Combined	2,297,734		5	5			0.17	0.87		3.05		3.05
Central America & Caribbean Com.	4,723,974		6					1.06		2.33		
European Combined	68,844,979		24	50			00					1.71
Africa Combined	38,028,578		18	11	_		0.00					1.45
Middle East Combined	149,187,589		87	75							_	2.07
Asia Pacific Combined	43,400,439		14	21	1					0.83		
South America Combined	23,770,678			22	-			0.00			0.00	
Australasia Combined	3,766,227	4	5	0	0	9	0.00	0.00	0.27	1.33	0.48	2.39
INDUSTRY TOTAL	396,233,172	359	287	254	9	909	0.13	0.66	0.28	1.39	0.46	2.29

MTO=Medical Treatment Only RWC =Restricted Work Case	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
LTI =Lost Time Incident FTL =Fatalities	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
RCRD =Total Recordables		



IADC ISP Program
5 Year Summary Report (Table 2)
Lost Time and Total Recordable Incidence/Frequency Rate

Lost Time and Total Recordable											
			016	20		20	14	201	_	20	12
CATEGORIES	TYPE	INCD Rate	FREQ Rate	INCD Rate	FRE Q	INCD Rate	FREQ Rate	INCD Rate	FRE Q	INCD Rate	FREQ Rate
					Rate			Nate	Rate	Nate	
	LTI:	0.35	1.74	0.31	1.55	0.41	2.07	0.51	2.54	0.51	2.55
US Land	DART:	0.78	3.89	0.72	3.58	0.93	4.67	0.96	4.81	1.16	5.79
	RCRD:	1.20	5.98	1.22	6.10	1.54	7.72	1.58	7.92	1.97	9.87
	LTI:	0.09	0.43	0.12	0.61	0.14	0.71	0.15	0.74	0.19	0.93
US Water	DART:	0.30	1.48	0.35	1.77	0.32	1.60	0.45	2.24	0.44	2.21
	RCRD:	0.49	2.45	0.56	2.82	0.64	3.19	0.78	3.91	0.93	4.64
	LTI:	0.54	2.68	0.14	0.68	0.29	1.46	0.61	3.05	0.69	3.44
Canada Land	DART:	1.34	6.70	0.41	2.04	0.73	3.64	0.76	3.82	1.31	6.53
	RCRD:	1.34	6.70	1.36	6.79	2.33	11.66	1.98	9.92	2.68	13.41
	LTI:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Canada Water	DART:	0.26	1.29	0.53	2.67	0.42	2.09	0.24	1.20	0.56	2.78
	RCRD:	0.26	1.29	0.80	4.01	0.70	3.49	0.24	1.20	1.39	6.95
Central America &	LTI:	0.55	2.73	0.98	4.92	0.43	2.16	0.27	1.37	0.29	1.45
Caribbean Land	DART:	1.09	5.46	1.09	5.47	0.48	2.39	0.46	2.28	0.45	2.25
	RCRD:	1.64	8.19	1.59	7.93	0.65	3.23	0.64	3.20	0.51	2.57
Central America &	LTI:	0.11	0.55	0.18	0.90	0.34	1.68	0.22	1.11	0.21	1.03
Caribbean Water	DART:	0.28	1.38	0.43	2.16	0.45	2.24	0.37	1.86	0.29	1.44
	RCRD:	0.33	1.65	0.61	3.05	0.90	4.48	0.54	2.72	0.58	2.89
South America	LTI:	0.27	1.35	0.25	1.25	0.19	0.97	0.16	0.79	0.17	0.84
Land	DART:	0.59	2.94	0.55	2.73	0.42	2.10	0.37	1.84	0.33	1.67
	RCRD:	0.71	3.53	0.72	3.62	0.54	2.69	0.51	2.54	0.42	2.11
South America	LTI:	0.10	0.50	0.22	1.09	0.26	1.28	0.27	1.33	0.31	1.57
Water	DART:	0.20	1.01	0.40	1.98	0.38	1.92	0.48	2.38	0.50	2.49
	RCRD:	0.34	1.68	0.52	2.60	0.54	2.71	0.66	3.29	0.88	4.38
	LTI:	0.17	0.84	0.15	0.75	0.24	1.18	0.34	1.69	0.26	1.29
European Land	DART:	0.19	0.97	0.18	0.89	0.30	1.50	0.39	1.94	0.31	1.55
	RCRD:	0.23	1.14	0.23	1.14	0.35	1.77	0.48	2.39	0.35	1.76
	LTI:	0.12	0.60	0.19	0.93	0.19	0.97	0.27	1.34	0.27	1.37
European Water	DART:	0.25	1.26	0.40	2.02	0.39	1.93	0.44	2.20	0.51	2.55
	RCRD:	0.50	2.52	0.63	3.17	0.73	3.64	0.85	4.24	0.82	4.11
Africa Laud	LTI:	0.11	0.56	0.39	1.95	0.32	1.59	0.38	1.92	0.38	1.88
Africa Land	DART:	0.20	1.01	0.94	4.71	0.86	4.28	0.86	4.32	0.50	2.50
	RCRD:	0.39	1.96	1.16	5.78	1.04	5.18	1.07	5.36	0.84	4.19
A C : 18/ /	LTI:	0.01	0.05	0.09	0.47	0.18	0.89	0.16	0.81	0.19	0.95
Africa Water	DART:	0.11	0.55	0.22	1.11	0.41	2.06	0.30	1.48	0.36	1.78
	RCRD: LTI:	0.20	0.99	0.34	1.72	0.65	3.26	0.52	2.61	0.55	2.73
Middle East Land		0.13	0.64	0.14	0.69	0.14	0.68	0.14	0.72	0.17	0.86
Middle East Land	DART:	0.24	1.20	0.32	1.59	0.32	1.59	0.39	1.95	0.39	1.96
	RCRD:	0.49	2.44	0.60	2.98	0.54	2.70	0.65	3.23	0.73	3.65
Middle East Water	LTI: DART:	0.05 0.18	0.27	0.10	0.48 1.12	0.08 0.26	0.42	0.08 0.22	0.39 1.10	0.06 0.28	0.31 1.39
wildule East Water			0.91	0.22		0.26	1.29		1.10		
	RCRD:	0.26	1.30	0.31	1.55		1.74	0.29		0.46	2.28
Acia Dacific Land	LTI:	0.07	0.33	0.11	0.53	0.24	1.18	0.22	1.08	0.21	1.05
Asia Pacific Land	DART:	0.11	0.55	0.19	0.93	0.31	1.53	0.58	2.89	0.66	3.28
	RCRD:	0.18	0.89	0.34	1.69	0.45	2.27	0.94	4.70	1.06	5.32
Asia Pacific Water	LTI:	0.11	0.55	0.05	0.27	0.15	0.73	0.15	0.76	0.18	0.89
ASIA PACIFIC WATER	DART: RCRD:	0.18 0.30	0.90 1.51	0.12 0.23	0.61 1.17	0.30	1.48 2.02	0.35 0.54	1.73 2.72	0.31 0.47	1.53 2.33
						0.40		0.54	2.12	0.47	2.33
Australasia Land	LTI: DART:	0.00 0.48	0.00	0.15 0.23	0.75	0.23	1.17 3.50	For Aus	tralasia d	ata prior t	o 2014
Australasia Land	RCRD:	•	2.40	ĺ	1.13	0.70	6.83		contact		
	LTI:	0.48	2.40	0.53	2.63 0.50	1.37	0.30				
Australasia Water	DART:	0.00	0.00	0.10	2.25	0.06 0.43	2.13	For Aus	tralasia d	ata prior t	o 2014
Australasia Water	RCRD:	0.16	0.79 2.38	0.45	2.25	0.43	3.05		contact	IADC	
	LTI:	0.46	0.66	0.55	0.88	0.81	1.14	0.26	1.29	0.26	1.31
INDUSTRY	DART:	0.13	1.39	0.18	1.92	0.48	2.41	0.52	2.576	0.53	2.645
TOTALS											
	RCRD:	0.46	2.29	0.60	3.02	0.75	3.76	0.81	4.03	0.88	4.41



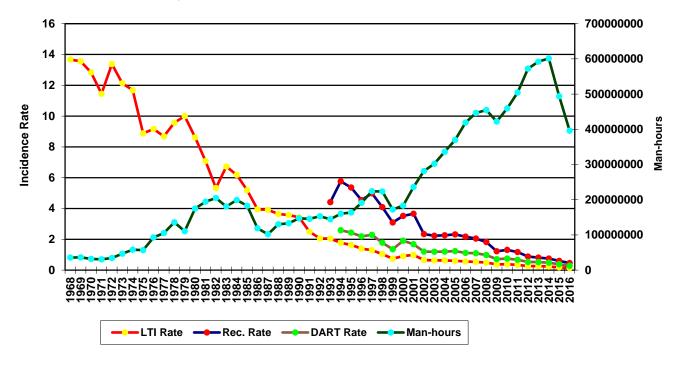
2016 - IADC INDUSTRY TOTALS (Table 3)

	LAND	WATER	COMBINED
TOTAL MANHOURS	217,466,488	178,766,684	396,233,172
TOTAL MEDICAL TREATMENT INCIDENTS	234	125	359
TOTAL RESTRICTED WORK INCIDENTS	173	114	287
TOTAL LOST TIME INCIDENTS	186	68	254
TOTAL FATALITIES	7	2	9
TOTAL RECORDABLES	600	309	909
MTO INCIDENCE RATE	0.22	0.14	0.18
RWC INCIDENCE RATE	0.16	0.13	0.14
LTI INCIDENCE RATE	0.18	0.08	0.13
LTI FREQUENCY RATE	0.89	0.39	0.66
DART INCIDENCE RATE	0.34	0.21	0.28
DART FREQUENCY RATE	1.68	1.03	1.39
RECORDABLE INCIDENCE RATE	0.55	0.35	0.46
RECORDABLE FREQUENCY RATE	2.76	1.73	2.29

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 INCIDENCE 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

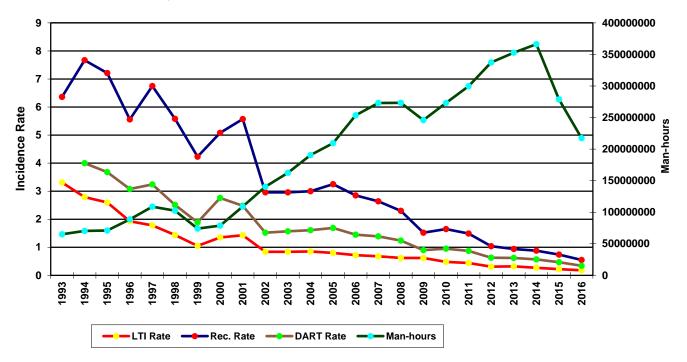
Number of participating companies: 95 - Total; 59 - Land; 51 - Water

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

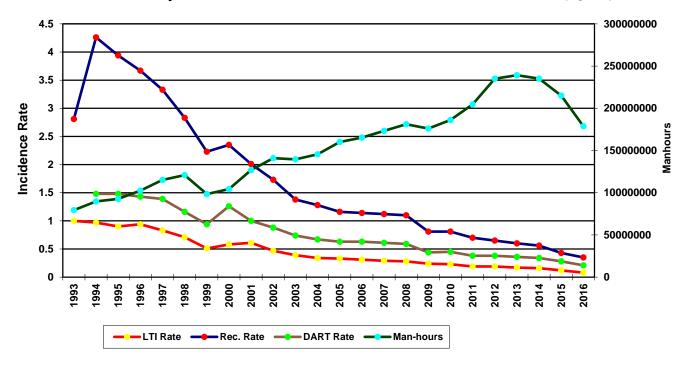




Total Industry Land LTI & Recordable Incidence Rates vs Man-hours (Figure 2)



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

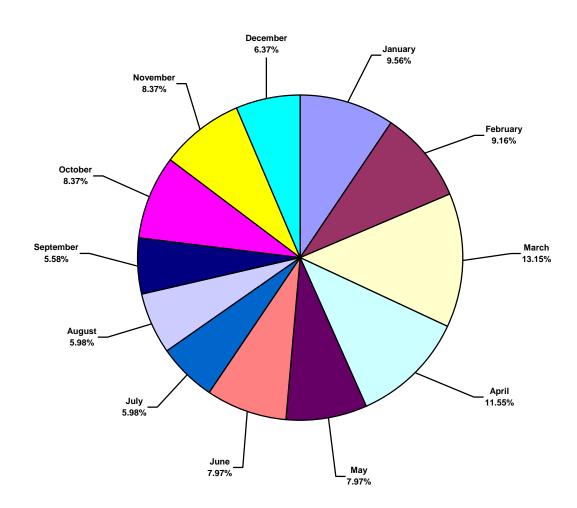




IADC 2016 Total Industry Charts

Total Industry Lost Time Incidents by Month (Chart 1)

Based on 251 Incidents

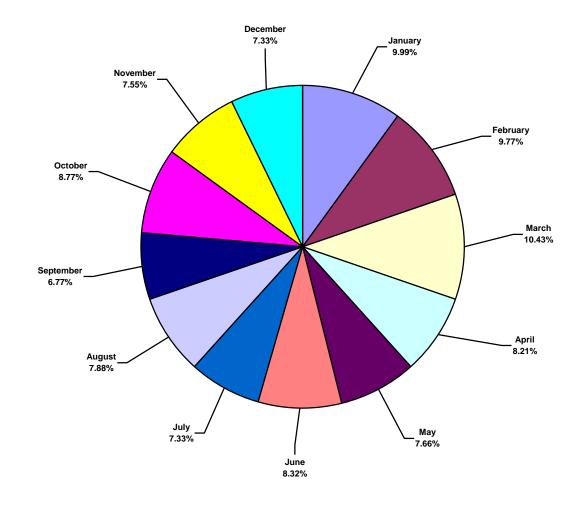




Total Industry Recordable Incidents by Month (Chart 2)

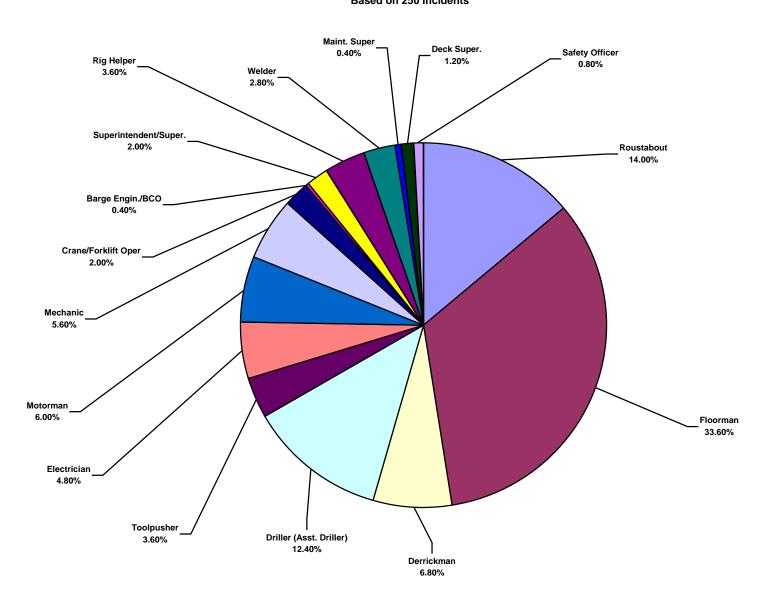
Based on 901 Incidents

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



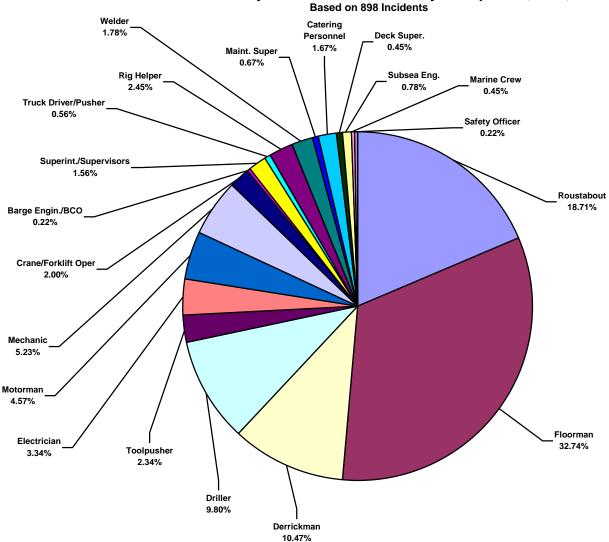


Total Industry Lost Time Incidents by Occupation (Chart 3) Based on 250 Incidents



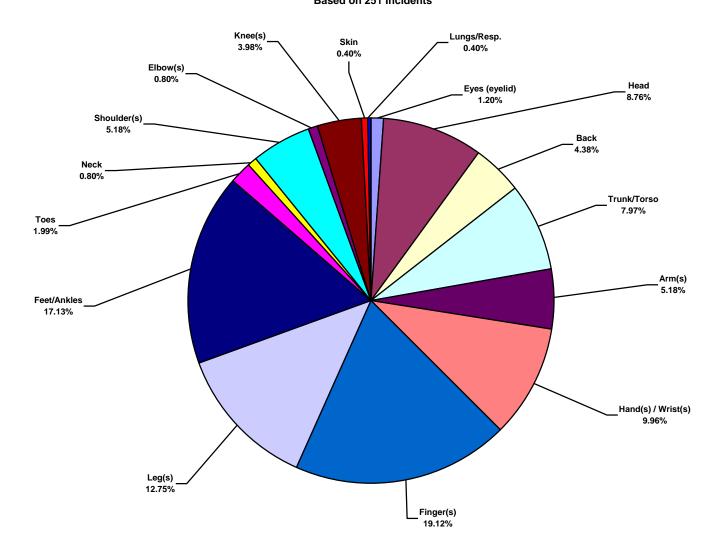


Total Industry Recordable Incidents by Occupation (Chart 4) Based on 898 Incidents



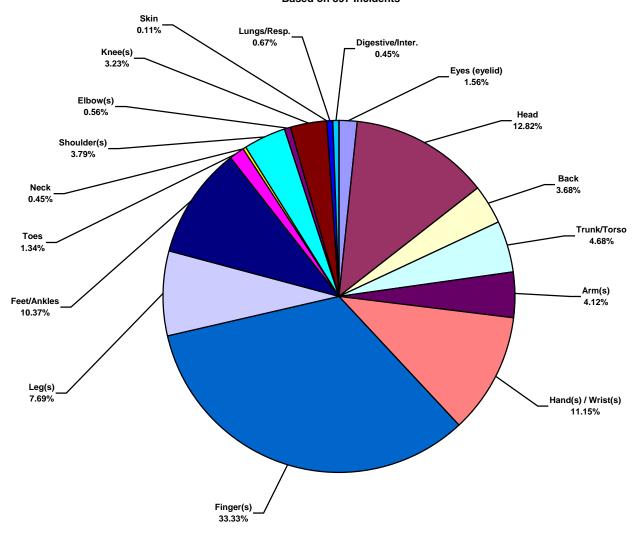


Total Industry Lost Time Incidents by Body Part (Chart 5) Based on 251 Incidents



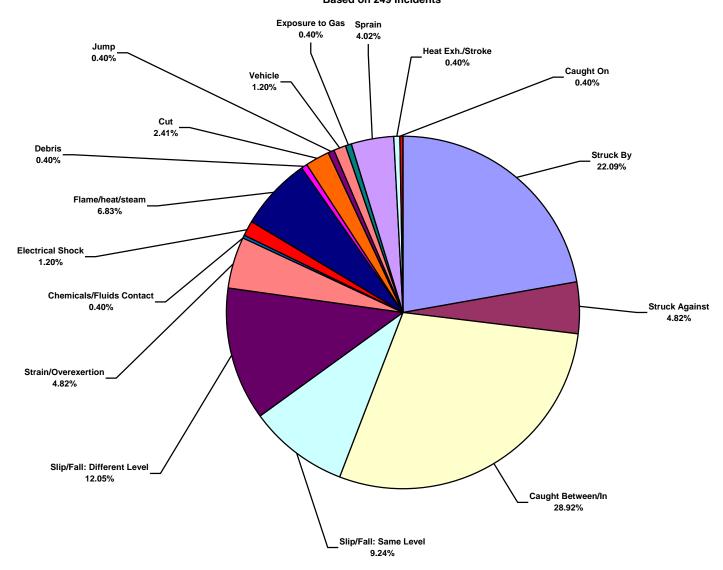


Total Industry Recordable Incidents by Body Part (Chart 6) Based on 897 Incidents



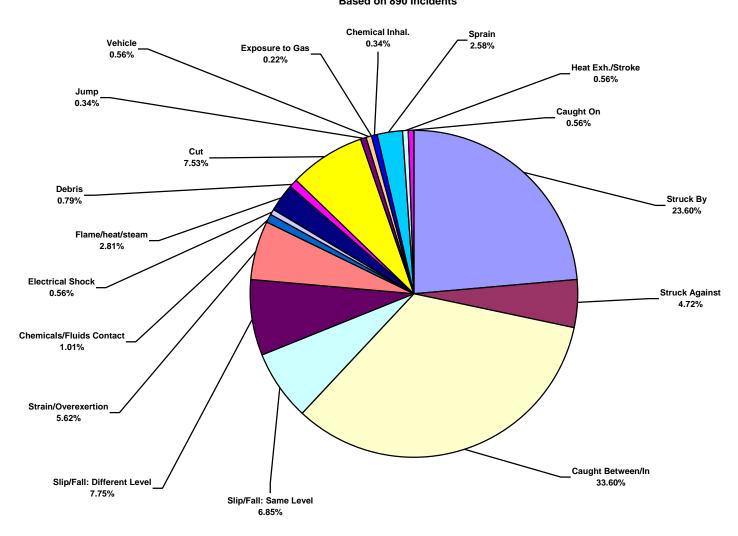


Total Industry Lost Time Incidents by Incident Type (Chart 7) Based on 249 Incidents



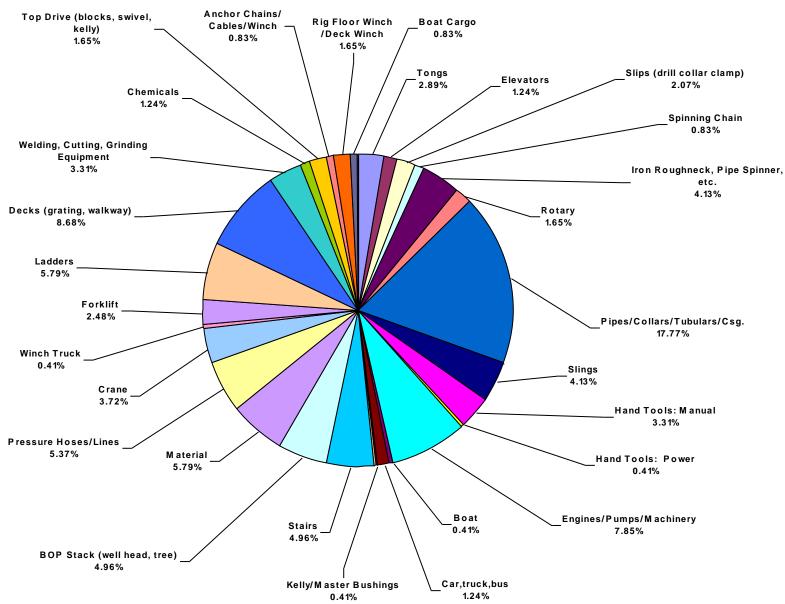


Total Industry Recordable Incidents by Incident Type (Chart 8) Based on 890 Incidents



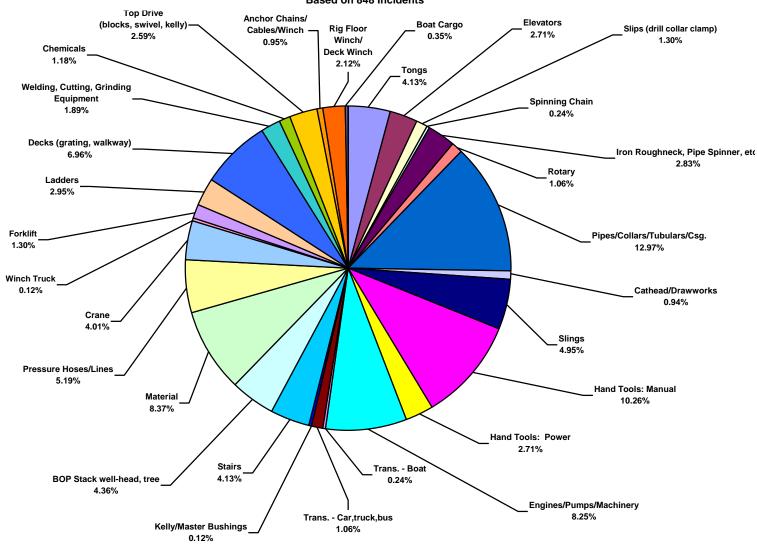


Total Industry Lost Time Incidents by Equipment (Chart 9) Based on 242 Incidents



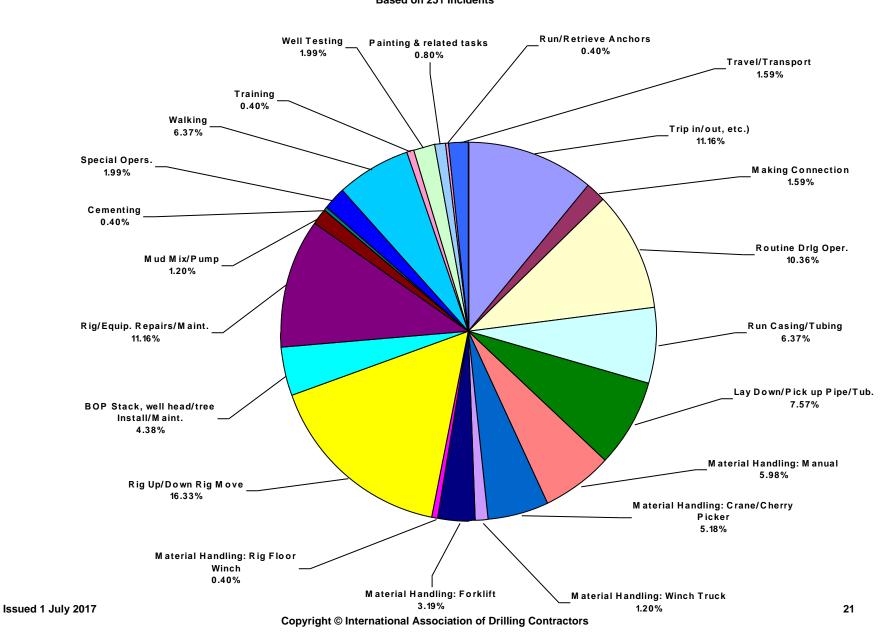


Total Industry Recordable Incidents by Equipment (Chart 10) Based on 848 Incidents



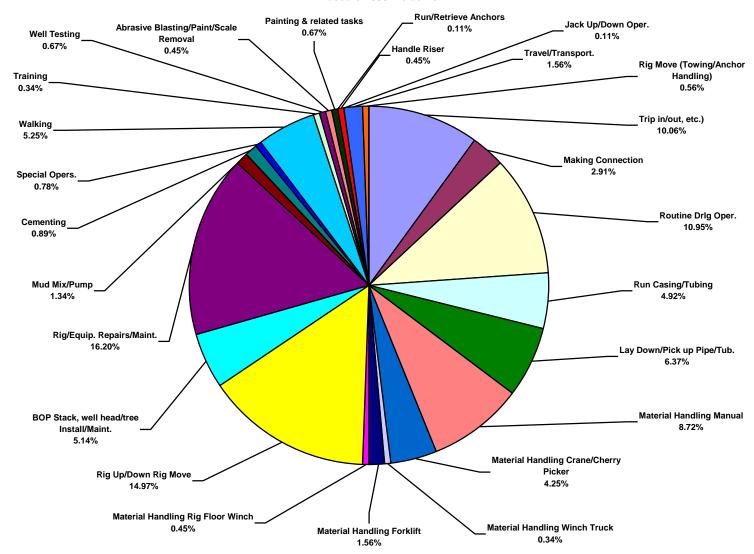


Total Industry Lost Time Incidents by Operation (Chart 11) Based on 251 Incidents



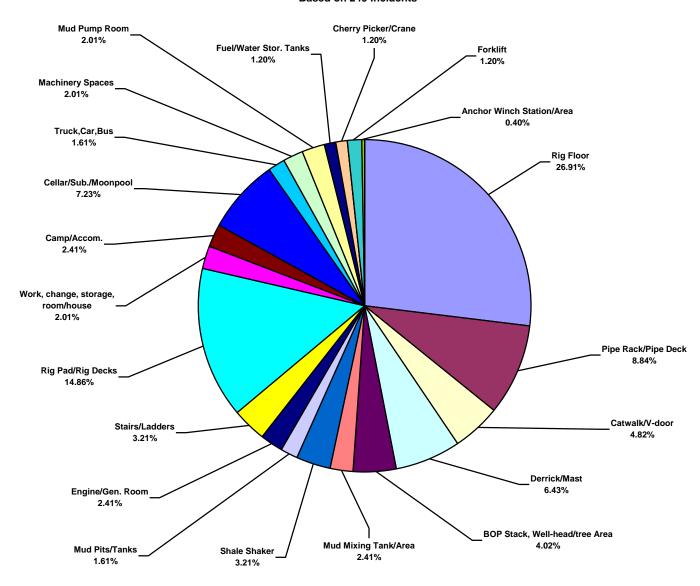


Total Industry Recordable Incidents by Operation (Chart 12) Based on 895 Incidents



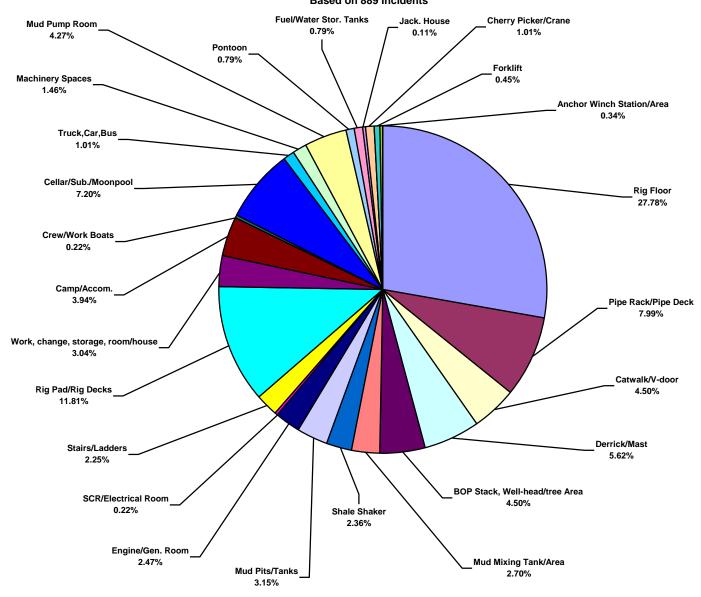


Total Industry Lost Time Incidents by Location (Chart 13) Based on 249 Incidents



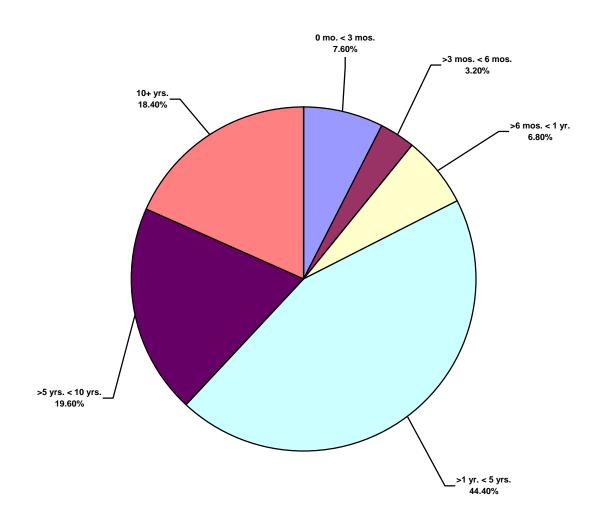


Total Industry Recordable Incidents by Location (Chart 14) Based on 889 Incidents



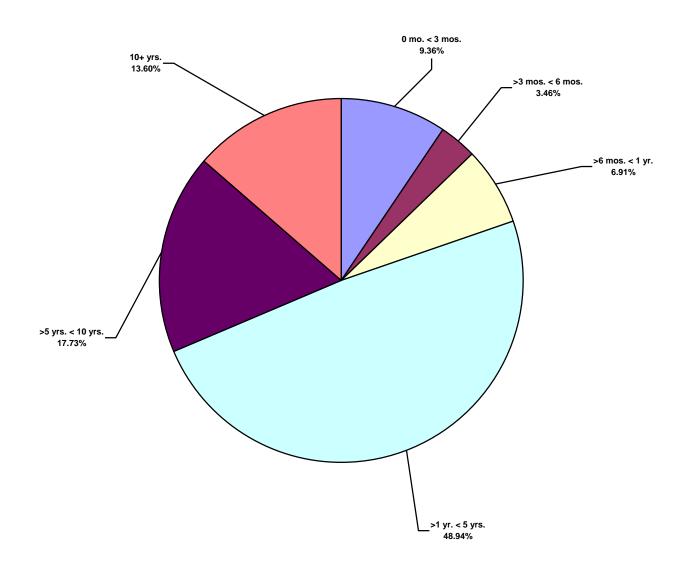


Total Industry Lost Time Incidents by Time in Service (Chart 15) Based on 250 Incidents



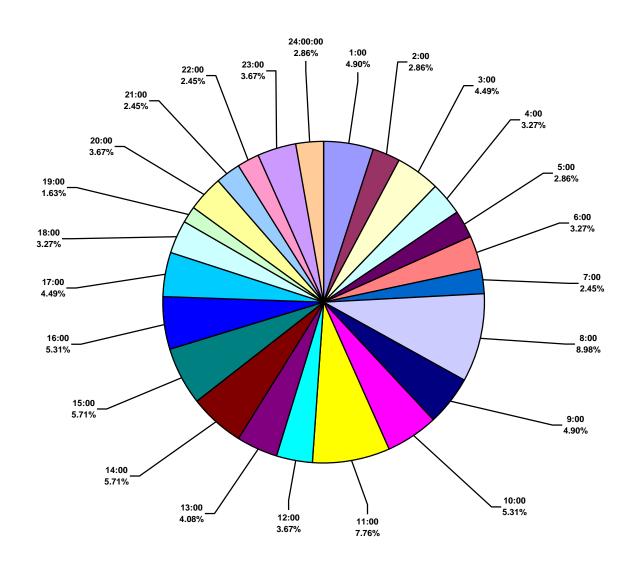


Total Industry Recordable Incidents by Time in Service (Chart 16) Based on 897 Incidents



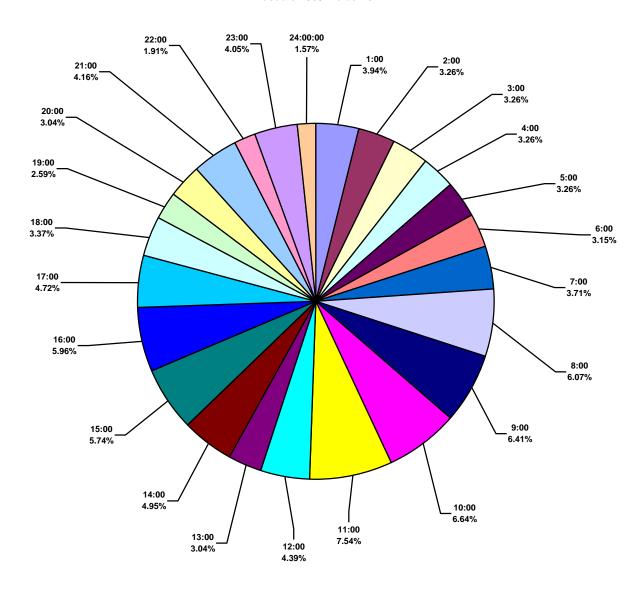


Total Industry Lost Time Incidents by Time of Day (Chart 17) Based on 245 Incidents



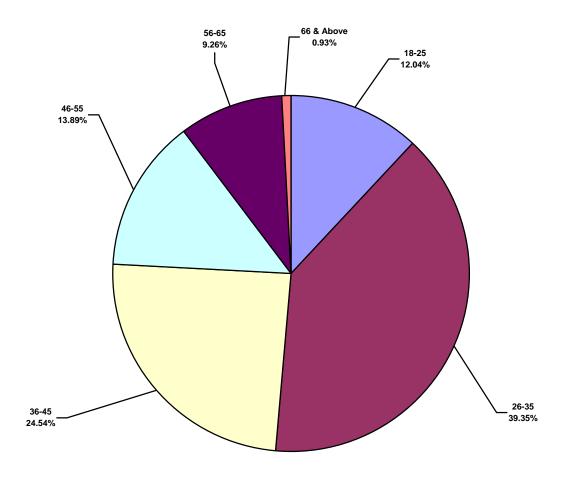


Total Industry Recordable Incidents by Time of Day (Chart 18) Based on 889 Incidents



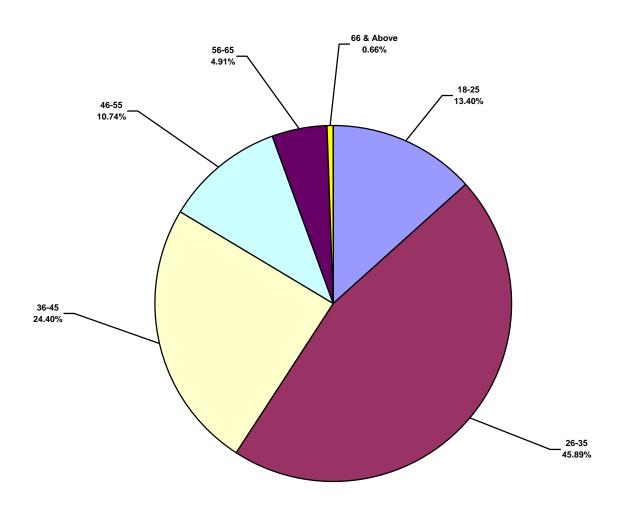


Total Industry Lost Time Incidents by Age (Chart 19) Based on 216 Incidents





Total Industry Recordable Incidents by Age (Chart 20) Based on 754 Incidents





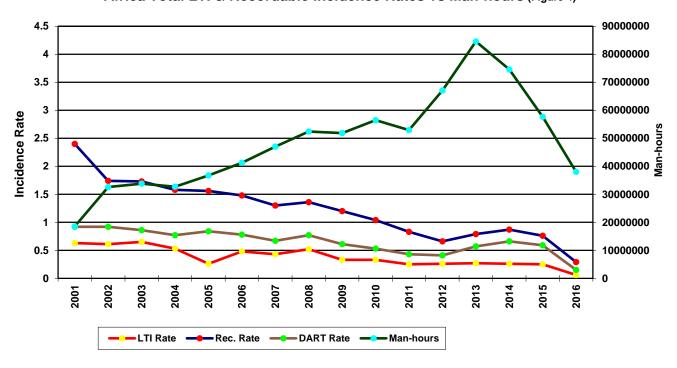
2016 ISP Program Regional Totals Combined Land & Water IADC 2016 Africa Totals (Table 4)

	LAND	WATER	COMBINED
TOTAL MANHOURS	17,869,835	20,158,743	38,028,578
TOTAL MEDICAL TREATMENT INCIDENTS	17	9	26
TOTAL RESTRICTED WORK INCIDENTS	8	10	18
TOTAL LOST TIME INCIDENTS	10	1	11
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	35	20	55
MTO INCIDENCE RATE	0.19	0.09	0.14
RWC INCIDENCE RATE	0.09	0.10	0.09
LTI INCIDENCE RATE	0.11	0.01	0.06
LTI FREQUENCY RATE	0.56	0.05	0.29
DART INCIDENCE RATE	0.20	0.11	0.15
DART FREQUENCY RATE	1.01	0.55	0.76
RECORDABLE INCIDENCE RATE	0.39	0.20	0.29
RECORDABLE FREQUENCY RATE	1.96	0.99	1.45

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 INCIDENCE 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 - 11 Water - 23

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





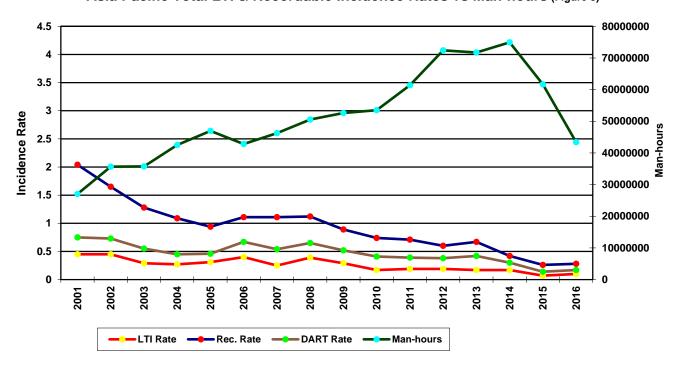
IADC 2016 Asia Pacific Totals (Table 5)

	LAND	WATER	COMBINED
TOTAL MANHOURS	9,037,458	34,362,981	43,400,439
TOTAL MEDICAL TREATMENT INCIDENTS	3	21	24
TOTAL RESTRICTED WORK INCIDENTS	2	12	14
TOTAL LOST TIME INCIDENTS	3	18	21
TOTAL FATALITIES	0	1	1
TOTAL RECORDABLES	8	52	60
MTO INCIDENCE RATE	0.07	0.12	0.11
RWC INCIDENCE RATE	0.04	0.07	0.06
LTI INCIDENCE RATE	0.07	0.11	0.10
LTI FREQUENCY RATE	0.33	0.55	0.51
DART INCIDENCE RATE	0.11	0.18	0.17
DART FREQUENCY RATE	0.55	0.90	0.83
RECORDABLE INCIDENCE RATE	0.18	0.30	0.28
RECORDABLE FREQUENCY RATE	0.89	1.51	1.38

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 INCIDENCE 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 - 31

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





- 33 **–**

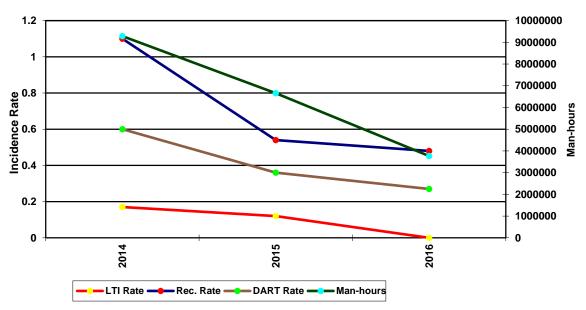
IADC 2016 Australasia Totals (Table 6)

	LAND	WATER	COMBINED
TOTAL MANHOURS	1,250,447	2,515,780	3,766,227
TOTAL MEDICAL TREATMENT INCIDENTS	0	4	4
TOTAL RESTRICTED WORK INCIDENTS	3	2	5
TOTAL LOST TIME INCIDENTS	0	0	0
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	3	6	9
MTO INCIDENCE RATE	0.00	0.32	0.21
RWC INCIDENCE RATE	0.48	0.16	0.27
LTI INCIDENCE RATE	0.00	0.00	0.00
LTI FREQUENCY RATE	0.00	0.00	0.00
DART INCIDENCE RATE	0.48	0.16	0.27
DART FREQUENCY RATE	2.40	0.79	1.33
RECORDABLE INCIDENCE RATE	0.48	0.48	0.48
RECORDABLE FREQUENCY RATE	2.40	2.38	2.39

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 INCIDENCE 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 - 5

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





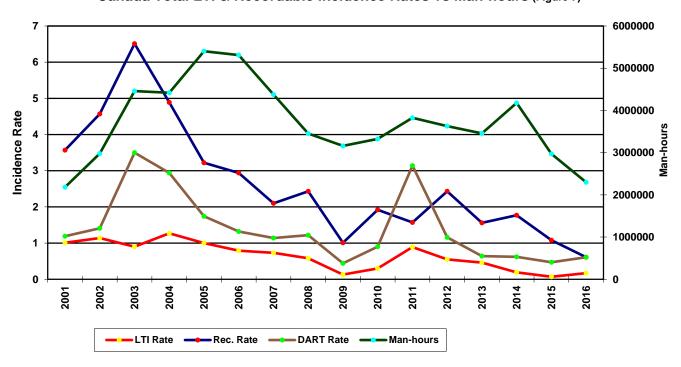
IADC 2016 Canada Totals (Table 7)

	LAND	WATER	COMBINED
TOTAL MANHOURS	746,777	1,550,957	2,297,734
TOTAL MEDICAL TREATMENT INCIDENTS	0	0	0
TOTAL RESTRICTED WORK INCIDENTS	3	2	5
TOTAL LOST TIME INCIDENTS	2	0	2
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	5	2	7
MTO INCIDENCE RATE	0.00	0.00	0.00
RWC INCIDENCE RATE	0.80	0.26	0.44
LTI INCIDENCE RATE	0.54	0.00	0.17
LTI FREQUENCY RATE	2.68	0.00	0.87
DART INCIDENCE RATE	1.34	0.26	0.61
DART FREQUENCY RATE	6.70	1.29	3.05
RECORDABLE INCIDENCE RATE	1.34	0.26	0.61
RECORDABLE FREQUENCY RATE	6.70	1.29	3.05

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 INCIDENCE 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 - 3 Water - 4

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





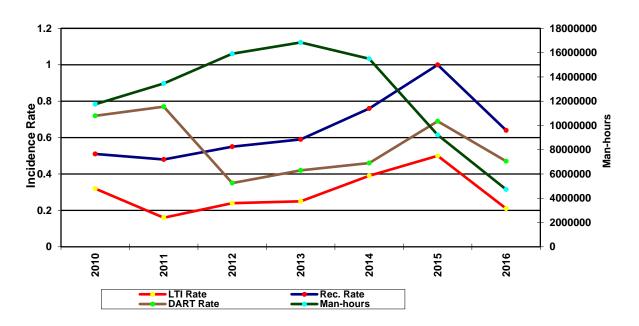
IADC 2016 Central America & Caribbean Totals (Table 8)

	LAND	WATER	COMBINED
TOTAL MANHOURS	1,098,397	3,625,577	4,723,974
TOTAL MEDICAL TREATMENT INCIDENTS	3	1	4
TOTAL RESTRICTED WORK INCIDENTS	3	3	6
TOTAL LOST TIME INCIDENTS	3	2	5
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	9	6	15
MTO INCIDENCE RATE	0.55	0.06	0.17
RWC INCIDENCE RATE	0.55	0.17	0.25
LTI INCIDENCE RATE	0.55	0.11	0.21
LTI FREQUENCY RATE	2.73	0.55	1.06
DART INCIDENCE RATE	1.09	0.28	0.47
DART FREQUENCY RATE	5.46	1.38	2.33
RECORDABLE INCIDENCE RATE	1.64	0.33	0.64
RECORDABLE FREQUENCY RATE	8.19	1.65	3.18

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 INCIDENCE 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 - 9

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





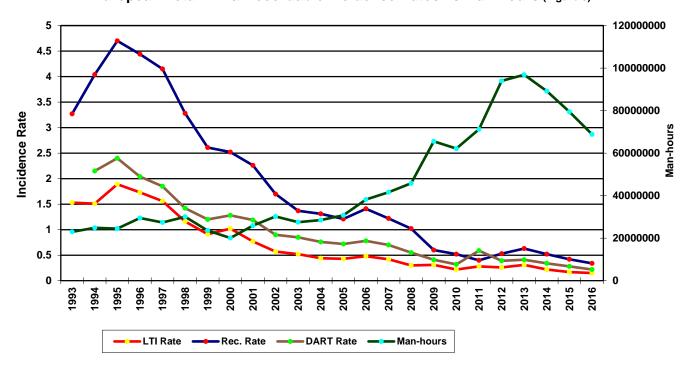
IADC 2016 European Totals (Table 9)

	LAND	WATER	COMBINED
TOTAL MANHOURS	40,293,752	28,551,227	68,844,979
TOTAL MEDICAL TREATMENT INCIDENTS	7	36	43
TOTAL RESTRICTED WORK INCIDENTS	5	19	24
TOTAL LOST TIME INCIDENTS	33	17	50
TOTAL FATALITIES	1	0	1
TOTAL RECORDABLES	46	72	118
MTO INCIDENCE RATE	0.03	0.25	0.12
RWC INCIDENCE RATE	0.02	0.13	0.07
LTI INCIDENCE RATE	0.17	0.12	0.15
LTI FREQUENCY RATE	0.84	0.60	0.74
DART INCIDENCE RATE	0.19	0.25	0.22
DART FREQUENCY RATE	0.97	1.26	1.09
RECORDABLE INCIDENCE RATE	0.23	0.50	0.34
RECORDABLE FREQUENCY RATE	1.14	2.52	1.71

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 INCIDENCE 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 - 11 Water - 24

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





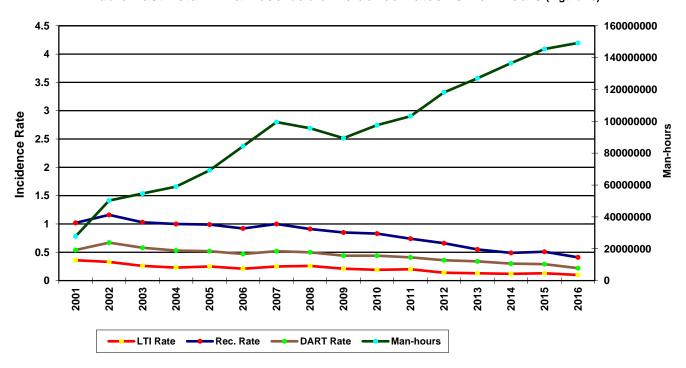
IADC 2016 Middle East Totals (Table 10)

	LAND	WATER	COMBINED
TOTAL MANHOURS	100,829,919	48,357,670	149,187,589
TOTAL MEDICAL TREATMENT INCIDENTS	125	19	144
TOTAL RESTRICTED WORK INCIDENTS	56	31	87
TOTAL LOST TIME INCIDENTS	62	13	75
TOTAL FATALITIES	3	0	3
TOTAL RECORDABLES	246	63	309
MTO INCIDENCE RATE	0.25	0.08	0.19
RWC INCIDENCE RATE	0.11	0.13	0.12
LTI INCIDENCE RATE	0.13	0.05	0.10
LTI FREQUENCY RATE	0.64	0.27	0.52
DART INCIDENCE RATE	0.24	0.18	0.22
DART FREQUENCY RATE	1.20	0.91	1.11
RECORDABLE INCIDENCE RATE	0.49	0.26	0.41
RECORDABLE FREQUENCY RATE	2.44	1.30	2.07

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 INCIDENCE 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 - 19

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





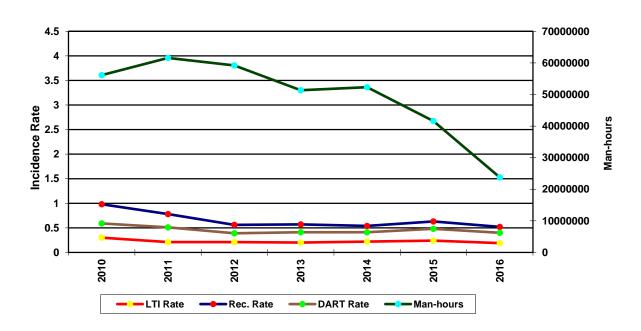
IADC 2016 South American Totals (Table 11)

	LAND	WATER	COMBINED
TOTAL MANHOURS	11,885,011	11,885,667	23,770,678
TOTAL MEDICAL TREATMENT INCIDENTS	7	8	15
TOTAL RESTRICTED WORK INCIDENTS	19	6	25
TOTAL LOST TIME INCIDENTS	16	6	22
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	42	20	62
MTO INCIDENCE RATE	0.12	0.13	0.13
RWC INCIDENCE RATE	0.32	0.10	0.21
LTI INCIDENCE RATE	0.27	0.10	0.19
LTI FREQUENCY RATE	1.35	0.50	0.93
DART INCIDENCE RATE	0.59	0.20	0.40
DART FREQUENCY RATE	2.94	1.01	1.98
RECORDABLE INCIDENCE RATE	0.71	0.34	0.52
RECORDABLE FREQUENCY RATE	3.53	1.68	2.61

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 INCIDENCE 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 - 12

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





IADC 2016 US Totals (Table 12)

	LAND	WATER	COMBINED
TOTAL MANHOURS	34,454,892	27,758,082	62,212,974
TOTAL MEDICAL TREATMENT INCIDENTS	72	27	99
TOTAL RESTRICTED WORK INCIDENTS	74	29	103
TOTAL LOST TIME INCIDENTS	57	11	68
TOTAL FATALITIES	3	1	4
TOTAL RECORDABLES	206	68	274
MTO INCIDENCE RATE	0.42	0.19	0.32
RWC INCIDENCE RATE	0.43	0.21	0.33
LTI INCIDENCE RATE	0.35	0.09	0.23
LTI FREQUENCY RATE	1.74	0.43	1.16
DART INCIDENCE RATE	0.78	0.30	0.56
DART FREQUENCY RATE	3.89	1.48	2.81
RECORDABLE INCIDENCE RATE	1.20	0.49	0.88
RECORDABLE FREQUENCY RATE	5.98	2.45	4.40

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 INCIDENCE 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 - 31; Water - 16

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

