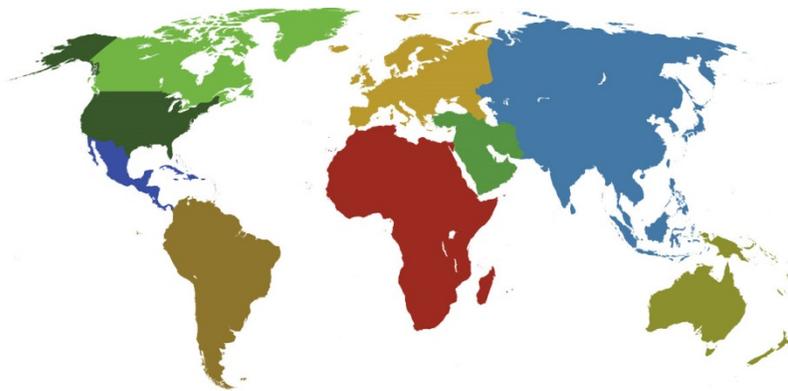




IADC

**IADC
ISP PROGRAM**

2015



**Summary of Occupational
Incidents
(Industry Totals)**

Issued 15 July 2016



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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 2015, the incidence rates improved slightly over 2014. 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 2015, 103 contractors participated in the ISP representing a total of 500,564,926 million man-hours worked. Contractors striving for safety improvement by participating in the ISP program reported 1,511 Recordable incidents, 431 Lost Time incidents including 8 fatalities.

Regional Reporting

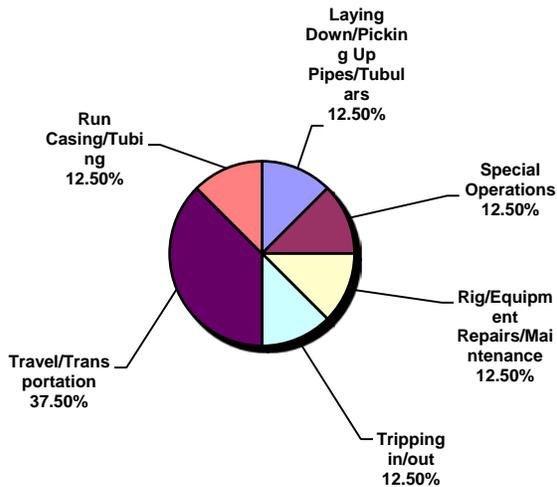
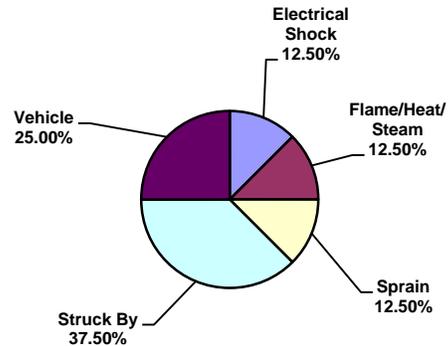
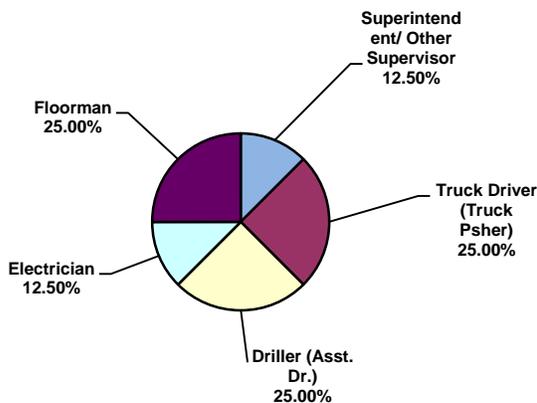
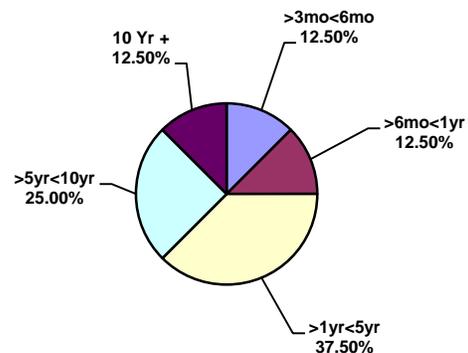
Safety data is compiled separately for Land and Offshore operations for nine geographic regions. This report is not designed to measure region against region, but to provide companies operating within each region tools to measure their efforts and make improvement in their safety efforts year over year.

Industry Improvement

2015 saw the drilling industry's worldwide Lost Time Incidence Rate improve to 0.18 which is an 21.74% improvement of the 2014 report of 0.23. The 2015 Recordable Incident rate improved to 0.60 which is a 20% improvement over the 2014 report of 0.75. The oil and gas well drilling industry's efforts towards safety have resulted in the industry's occupational LTI Incidence rate to remain the same from more than 14.00 in 1963 to 0.18 in 2015, which is a 77 fold improvement.

Fatalities:

In 2015 the industry's fatalities decreased to 8 incidents compared to 21 incidents reported in 2014. According to the data reported in 2015, one (1) fatality occurred to an employee who had ten or more years of service with the company. Three (3) fatalities occurred to employees who had more than one year but less than five years of service and one (1) with more than three months but less than six months of service. One (1) of the victims had worked for the company between six months to one year and two (2) victims had worked for the company between five years and ten years. Three (3) fatalities occurred during travel/transportation. Three (3) victims were struck-by while two (2) were due to vehicle incidents. Two (2) of the fatalities occurred to floormen, two (2) fatalities occurred to Drillers (Assistant Driller) and two (2) fatalities occurred to truck drivers.

Fatal Incidents by activity

Fatal Incidents by type

Fatalities by Occupation

Fatalities by Time in Service


Regional Summaries: Man-Hours vs Fatalities

European Land and Offshore categories together worked more than 79 million man-hours in 2015 with two (2) fatalities. European offshore accounted for 36.5 million man-hours with no fatalities while European Land had 42.9 million man-hours and two (2) fatalities. **US Land and Offshore** contractors together worked more than 95 million man-hours with one (1) fatality. US Land had 58 million man-hours with no fatalities while US water had 37.89 million man-hours and one (1) fatality. **Canadian** contractors accounted for 2.97 million man-hours and zero (0) fatalities. Canadian Land had 1.47 million man-hours and no fatalities while offshore had 1.49 million man-hours and

no fatalities. **Central America and Caribbean** accounted for 9.22 million man-hours with zero (0) fatalities. Land operations reported 3.6 million man-hours and no fatalities while water operations reported just over 5.56 million man-hours and no fatalities. **Africa** combined land and offshore accounted for 57.66 million man-hours with three (3) fatalities. Africa Land accounted for 29.73 million man-hours with three (3) fatalities while Africa Water had 27.9 million man-hours and no fatalities. The **Middle East** region accounted for 145.38 million man-hours with two (2) fatalities. The Land division had 103.46 million man-hours and two (2) fatalities while there were 41.9 million man-hours and no fatalities for the offshore division. **Asia Pacific** accounted for 61.66 million man-

hours and no fatalities. Water had 44.51 million man-hours and no fatalities while the Land Division had 17.14 million man-hours with no fatalities. **South America** made up 41.59 million man-hours with no fatalities. Land had 22.37 million man-hours and no fatalities while Water had 19.21 million man-hours and no fatalities. **Australasia** made up 6.65 million man-hours with no fatalities. Land had 2.6 million man-hours with no fatalities while offshore had 3.9 million man-hours with no fatalities.

Lost Time and Recordable Incidents by Region

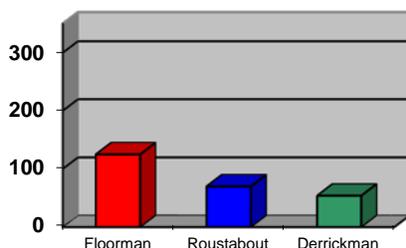
Lost time incidents among **US Offshore** workers was better by 14.2% from 0.14 in 2014 to 0.12 in 2015. The Total Recordable Incidence Rate also improved 12.5% from 0.64 in 2014 to 0.56 in 2015. **US Land** LTI Incidence rate improved 24.3% from 0.41 in 2014 to 0.31 in 2015 and Recordable Incidence Rate improved 20.7% from 1.54 in 2014 to 1.22 in 2015. **European Land** workers saw their LTI rate improve 37.5% from 0.24 for 2014 to 0.15 for 2015. The Recordable Incidence Rate also improved 34.2% from 0.35 in 2014 to 0.23 in 2015. **European Offshore** workers LTI rate remain the same in 2014 and 2015 at 0.19 while the Recordable Incidence rate improved 13.69% from 0.73 in 2014 to 0.63 in 2015. **Canada Land** had a 2014 LTI rate of 0.29 which improved 51.7% to 0.14 for 2015, while their Recordable Incidence improved 41.6% from 2.33 in 2014 to 1.36 for 2015. **Canada Offshore** workers saw their 2014 LTI rate of 0.0 remain the same for 2015. The Recordable Incidence rate of 0.70 for 2014 worsened 14.2% to 0.80 for 2015. **Central America and Caribbean Land** 2014 LTI rate of 0.43 worsened 127.9% to 0.98 for 2015. Their 2014 Recordable Incidence rate of 0.65 worsened 144.6% to 1.59 for 2015. **Central America and Caribbean Water** 2014 LTI Rate of 0.34 improved 47% to 0.18 in 2015. The Recordable rate of 0.90 for 2014 improved 32.2% to 0.61 for 2015. **Africa Land** LTI rate

for 2014 was 0.32 worsened 21.8% for 0.39 in 2015. The Recordable Incidence rate worsened 11.5% from 1.04 in 2014 to 1.16 in 2015. **Africa Water** LTI rate of 0.18 for 2014 improved 50% to 0.09 for 2015 and their Recordable Incidence rate improved 47.6% from 0.65 in 2014 to 0.34 in 2015. In 2014, **Middle East Land** had a LTI rate of 0.14 which remained the same in 2015. Their 2014 Recordable Incidence rate of 0.54 worsened 11% to 0.60 in 2015. **Middle East Water** LTI rate of 0.08 in 2014 worsened 25% to 0.10 in 2015 and their Recordable Incidence rate improved 11.4% from 0.35 in 2014 to 0.31 in 2015. **Asia Pacific Land** 2014 LTI rate was 0.24 and improved 54% to 0.11 in 2015, while their Recordable Incidence rate improved 24% from 0.45 in 2014 to 0.34 in 2015. **Asia Pacific Water** 2014 LTI rate of 0.15 improved 66.6% to 0.05 for 2015 and their Recordable Incidence rate improved 42.5% from 0.40 in 2014 to 0.23 in 2015. In 2014, **South America Land** had an LTI rate of 0.19 which worsened 31.5% to 0.25 in 2015 and a 2014 Recordable rate of 0.54 which worsened 33% to 0.72 in 2015. **South America Water** 2014 LTI rate was 0.26 which improved 15% to 0.22 in 2015 and a 2014 Recordable rate of 0.54 that also improved 3.7% to 0.52 in 2015. **Australasia Land** had a 2014 LTI rate of 0.23 which improved 34.7% to 0.15 for 2015 and Recordable incident rate of 1.37 for 2014 which improved 61% to 0.53 for 2015. **Australasia Water** had a 2014 LTI rate of 0.06 which worsened 66% to 0.10 for 2015, but a 2014 Recordable incident rate of 0.61 which improved 9.8% to 0.55 for 2015.

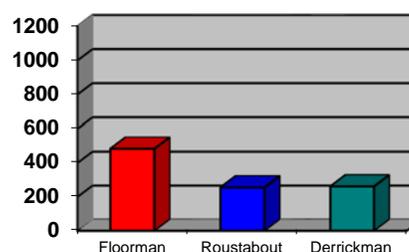
Greatest Risks:

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.

LTI by Occupation
(Based on 420 incidents)

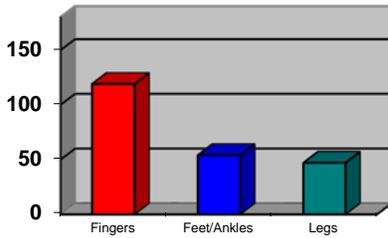


REC by Occupation
(Based on 1476 incidents)

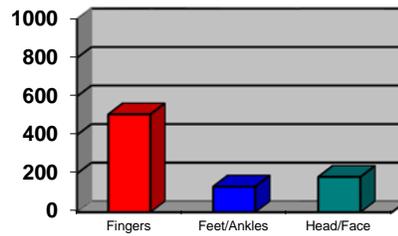


Data from the IADC ISP show that of all the categories, as with previous years, the Floorman position suffers the largest percentage of Lost Time and Recordable injuries.

LTI by Body Part
(Based on 417 incidents)

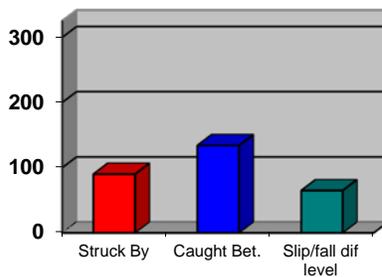


REC by Body Part
(Based on 1460 incidents)

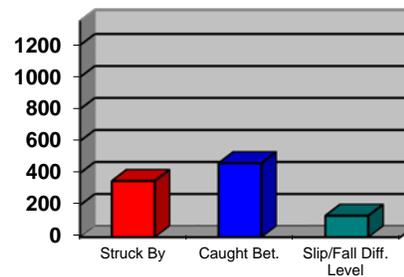


Fingers remained the most vulnerable part of the body.

LTI by Incident Type
(Based on 415 incidents)

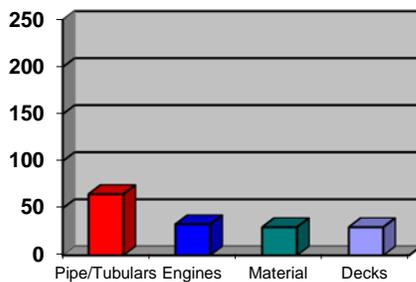


REC by Incident Type
(Based on 1462 incidents)

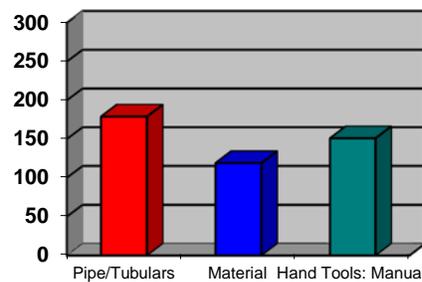


Caught Between accounted for most Lost Time and Recordable injuries and was closely followed by Struck by injuries.

LTI by Equipment
(Based on 392 incidents)

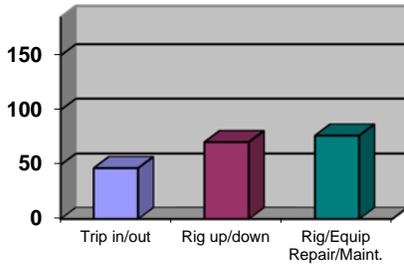


REC by Equipment
(Based on 1375 incidents)

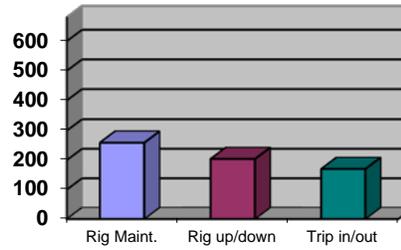


Pipe/Tubulars is the equipment responsible for the most Lost Time and Recordable incidents.

LTI by Activity
(Based on 417 incidents)

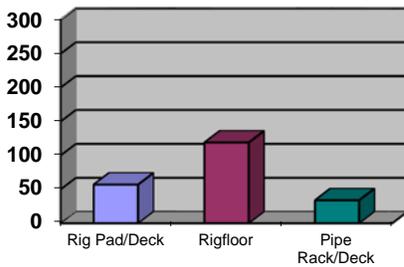


REC by Activity
(Based on 1455 incidents)

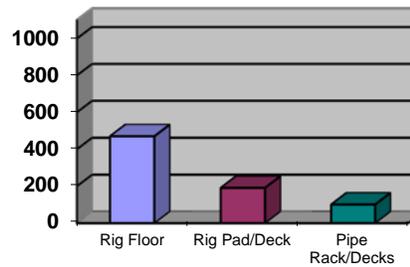


“Rig/Equipment Repair/Maintenance” is the operation that involves the most Lost Time and Recordable injuries.

LTI by Location
(Based on 415 incidents)

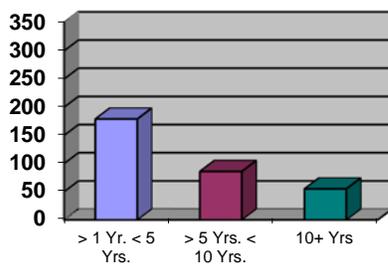


REC by Location
(Based on 1451 incidents)

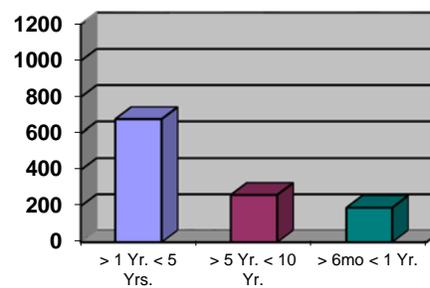


It is no surprise that by far the most Lost Time and Recordable injuries in drilling operations occur on the rig floor.

LTI by Time In Service
(Based on 415 incidents)

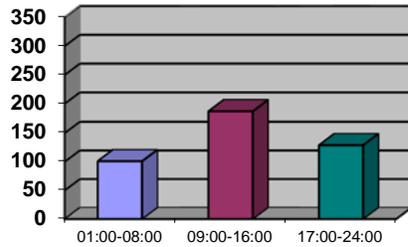


REC by Time In Service
(Based on 1465 incidents)

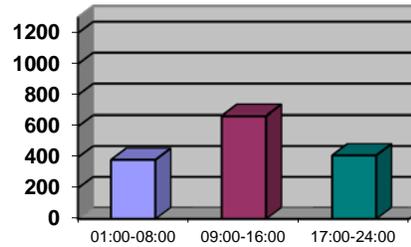


Lost Time and Recordable injuries based on Time in Service were led by employees with between one to five years of service.

LTI by Time of Day
(Based on 417 incidents)

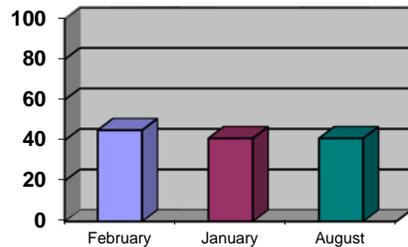


REC by Time of Day
(Based on 1463 incidents)

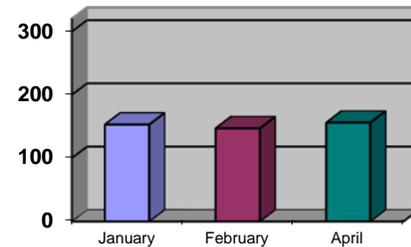


The Most LTI and Recordable incidents occurred between 09:00-16:00 hours.

LTI by Month
(Based on 420 incidents)

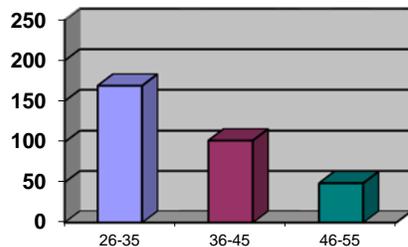


REC by Month
(Based on 1478 incidents)

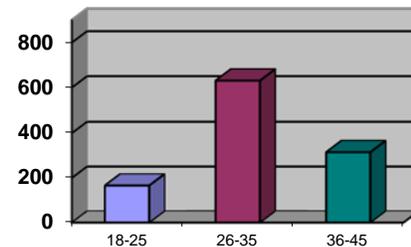


February accounted for the most Lost Time. The most Recordable incidents occurred in April, followed closely by January.

LTI by Age
(Based on 393 incidents)



REC by Age
(Based on 1330 incidents)



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

Conclusion:

Activity in most sectors of the industry decreased in 2015. Overall, Lost Time incidents rates and Recordable incident rates improved in 2015 as compared to 2014. The industry also saw the number of fatalities decrease significantly to 8 for 2015 compared to 21 in 2014. Although some regions did not see improvement in 2015, the overall incident and frequency rates are still trending downward.



2015 ISP Program Industry Totals

IADC ISP Program 2015 Final Report (Table 1)

January – December

Note: Figures are unaudited

CATEGORY	TOTAL MANHOURS	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	58,055,785	146	118	90	0	354	0.31	1.55	0.72	3.58	1.22	6.10
US - Water	37,890,556	40	44	22	1	107	0.12	0.61	0.35	1.77	0.56	2.82
Canada - Land	1,473,827	7	2	1	0	10	0.14	0.68	0.41	2.04	1.36	6.79
Canada - Water	1,496,644	2	4	0	0	6	0.00	0.00	0.53	2.67	0.80	4.01
Central America & Caribbean - Land	3,659,272	9	2	18	0	29	0.98	4.92	1.09	5.47	1.59	7.93
Central America & Caribbean - Water	5,564,937	5	7	5	0	17	0.18	0.90	0.43	2.16	0.61	3.05
European - Land	42,911,869	11	6	30	2	49	0.15	0.75	0.18	0.89	0.23	1.14
European - Water	36,544,080	42	40	34	0	116	0.19	0.93	0.40	2.02	0.63	3.17
Africa - Land	29,734,165	32	82	55	3	172	0.39	1.95	0.94	4.71	1.16	5.78
Africa - Water	27,933,397	17	18	13	0	48	0.09	0.47	0.22	1.11	0.34	1.72
Middle East - Land	103,466,893	144	93	69	2	308	0.14	0.69	0.32	1.59	0.60	2.98
Middle East - Water	41,917,040	18	27	20	0	65	0.10	0.48	0.22	1.12	0.31	1.55
Asia Pacific - Land	17,142,377	13	7	9	0	29	0.11	0.53	0.19	0.93	0.34	1.69
Asia Pacific - Water	44,518,774	25	15	12	0	52	0.05	0.27	0.12	0.61	0.23	1.17
South America Land	22,377,092	20	33	28	0	81	0.25	1.25	0.55	2.73	0.72	3.62
South America Water	19,218,896	12	17	21	0	50	0.22	1.09	0.40	1.98	0.52	2.60
Australasia – Land	2,663,911	4	1	2	0	7	0.15	0.75	0.23	1.13	0.53	2.63
Australasia – Water	3,995,411	2	7	2	0	11	0.10	0.50	0.45	2.25	0.55	2.75
US Combined	95,946,341	186	162	112	1	461	0.24	1.18	0.57	2.87	0.96	4.80
Canada Combined	2,970,471	9	6	1	0	16	0.07	0.34	0.47	2.36	1.08	5.39
Central America & Caribbean Com.	9,224,209	14	9	23	0	46	0.50	2.49	0.69	3.47	1.00	4.99
European Combined	79,455,949	53	46	64	2	165	0.17	0.83	0.28	1.41	0.42	2.08
Africa Combined	57,667,562	49	100	68	3	220	0.25	1.23	0.59	2.97	0.76	3.81
Middle East Combined	145,383,933	162	120	89	2	373	0.13	0.63	0.29	1.45	0.51	2.57
Asia Pacific Combined	61,661,151	38	22	21	0	81	0.07	0.34	0.14	0.70	0.26	1.31
South America Combined	41,595,988	32	50	49	0	131	0.24	1.18	0.48	2.38	0.63	3.15
Australasia Combined	6,659,322	6	8	4	0	18	0.12	0.60	0.36	1.80	0.54	2.70
INDUSTRY TOTAL	500,564,926	549	523	431	8	1,511	0.18	0.88	0.38	1.92	0.60	3.02

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		

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

CATEGORIES	TYPE	2015		2014		2013		2012		2011	
		INCD Rate	FREQ Rate	INC D Rate	FREQ Rate	INCD Rate	FREQ Rate	INCD Rate	FREQ Rate	INCD Rate	FREQ Rate
US Land	LTI:	0.31	1.55	0.41	2.07	0.51	2.54	0.51	2.55	0.87	4.34
	DART:	0.72	3.58	0.93	4.67	0.96	4.81	1.16	5.79	1.75	8.73
	RCRD:	1.22	6.10	1.54	7.72	1.58	7.92	1.97	9.87	3.09	15.43
US Water	LTI:	0.12	0.61	0.14	0.71	0.15	0.74	0.19	0.93	0.18	0.91
	DART:	0.35	1.77	0.32	1.60	0.45	2.24	0.44	2.21	0.39	1.93
	RCRD:	0.56	2.82	0.64	3.19	0.78	3.91	0.93	4.64	0.82	4.11
Canada Land	LTI:	0.14	0.68	0.29	1.46	0.61	3.05	0.69	3.44	1.16	5.78
	DART:	0.41	2.04	0.73	3.64	0.76	3.82	1.31	6.53	1.54	7.71
	RCRD:	1.36	6.79	2.33	11.66	1.98	9.92	2.68	13.41	3.57	17.83
Canada Water	LTI:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.31	1.53
	DART:	0.53	2.67	0.42	2.09	0.24	1.20	0.56	2.78	0.3	1.53
	RCRD:	0.80	4.01	0.70	3.49	0.24	1.20	1.39	6.95	0.61	3.06
Central America & Caribbean Land	LTI:	0.98	4.92	0.43	2.16	0.27	1.37	0.29	1.45	0.44	2.19
	DART:	1.09	5.47	0.48	2.39	0.46	2.28	0.45	2.25	1.15	5.74
	RCRD:	1.59	7.93	0.65	3.23	0.64	3.20	0.51	2.57	1.42	7.10
Central America & Caribbean Water	LTI:	0.18	0.90	0.34	1.68	0.22	1.11	0.21	1.03	0.00	0.00
	DART:	0.43	2.16	0.45	2.24	0.37	1.86	0.29	1.44	0.07	0.36
	RCRD:	0.61	3.05	0.90	4.48	0.54	2.72	0.58	2.89	0.39	1.97
South America Land	LTI:	0.25	1.25	0.19	0.97	0.16	0.79	0.17	0.84	0.18	0.52
	DART:	0.55	2.73	0.42	2.10	0.37	1.84	0.33	1.67	0.52	2.61
	RCRD:	0.72	3.62	0.54	2.69	0.51	2.54	0.42	2.11	0.75	3.77
South America Water	LTI:	0.22	1.09	0.26	1.28	0.27	1.33	0.31	1.57	0.29	1.47
	DART:	0.40	1.98	0.38	1.92	0.48	2.38	0.50	2.49	0.46	2.31
	RCRD:	0.52	2.60	0.54	2.71	0.66	3.29	0.88	4.38	0.92	4.62
European Land	LTI:	0.15	0.75	0.24	1.18	0.34	1.69	0.26	1.29	0.28	1.41
	DART:	0.18	0.89	0.30	1.50	0.39	1.94	0.31	1.55	0.31	1.56
	RCRD:	0.23	1.14	0.35	1.77	0.48	2.39	0.35	1.76	0.38	1.89
European Water	LTI:	0.19	0.93	0.19	0.97	0.27	1.34	0.27	1.37	0.31	1.55
	DART:	0.40	2.02	0.39	1.93	0.44	2.20	0.51	2.55	0.49	2.44
	RCRD:	0.63	3.17	0.73	3.64	0.85	4.24	0.82	4.11	0.80	3.99
Africa Land	LTI:	0.39	1.95	0.32	1.59	0.38	1.92	0.38	1.88	0.34	1.72
	DART:	0.94	4.71	0.86	4.28	0.86	4.32	0.50	2.50	0.49	2.47
	RCRD:	1.16	5.78	1.04	5.18	1.07	5.36	0.84	4.19	1.00	5.00
Africa Water	LTI:	0.09	0.47	0.18	0.89	0.16	0.81	0.19	0.95	0.28	1.39
	DART:	0.22	1.11	0.41	2.06	0.30	1.48	0.36	1.78	0.47	2.34
	RCRD:	0.34	1.72	0.65	3.26	0.52	2.61	0.55	2.73	0.81	4.07
Middle East Land	LTI:	0.14	0.69	0.14	0.68	0.14	0.72	0.17	0.86	0.22	1.12
	DART:	0.32	1.59	0.32	1.59	0.39	1.95	0.39	1.96	0.46	2.30
	RCRD:	0.60	2.98	0.54	2.70	0.65	3.23	0.73	3.65	0.83	4.16
Middle East Water	LTI:	0.10	0.48	0.08	0.42	0.08	0.39	0.06	0.31	0.12	0.60
	DART:	0.22	1.12	0.26	1.29	0.22	1.10	0.28	1.39	0.28	1.38
	RCRD:	0.31	1.55	0.35	1.74	0.29	1.47	0.46	2.28	0.53	2.67
Asia Pacific Land	LTI:	0.11	0.53	0.24	1.18	0.22	1.08	0.21	1.05	0.31	1.56
	DART:	0.19	0.93	0.31	1.53	0.58	2.89	0.66	3.28	0.59	2.97
	RCRD:	0.34	1.69	0.45	2.27	0.94	4.70	1.06	5.32	1.02	5.08
Asia Pacific Water	LTI:	0.05	0.27	0.15	0.73	0.15	0.76	0.18	0.89	0.14	0.69
	DART:	0.12	0.61	0.30	1.48	0.35	1.73	0.31	1.53	0.30	1.51
	RCRD:	0.23	1.17	0.40	2.02	0.54	2.72	0.47	2.33	0.63	3.17
Australasia Land	LTI:	0.15	0.75	0.23	1.17	For Australasia data prior to 2014 contact IADC					
	DART:	0.23	1.13	0.70	3.50						
	RCRD:	0.53	2.63	1.37	6.83						
Australasia Water	LTI:	0.10	0.50	0.06	0.30	For Australasia data prior to 2014 contact IADC					
	DART:	0.45	2.25	0.43	2.13						
	RCRD:	0.55	2.75	0.61	3.05						
INDUSTRY TOTALS	LTI:	0.18	0.88	0.23	1.14	0.26	1.29	0.26	1.31	0.36	1.79
	DART:	0.38	1.92	0.48	2.41	0.52	2.576	0.53	2.645	0.69	3.453
	RCRD:	0.60	3.02	0.75	3.76	0.81	4.03	0.88	4.41	1.23	6.13

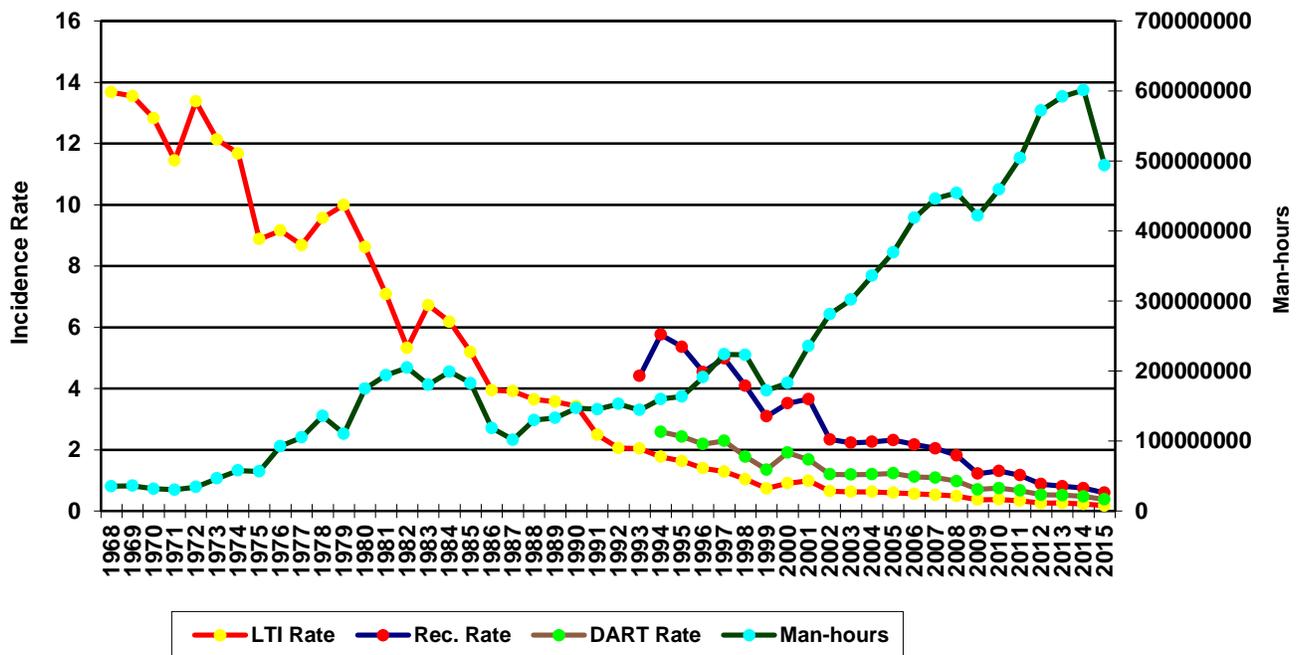
2015 - IADC INDUSTRY TOTALS (Table 3)

	LAND	WATER	COMBINED
TOTAL MANHOURS	281,485,191	219,079,735	500,564,926
TOTAL MEDICAL TREATMENT INCIDENTS	386	163	549
TOTAL RESTRICTED WORK INCIDENTS	344	179	523
TOTAL LOST TIME INCIDENTS	302	129	431
TOTAL FATALITIES	7	1	8
TOTAL RECORDABLES	1,039	472	1,511
MTO INCIDENCE RATE	0.27	0.15	0.22
RWC INCIDENCE RATE	0.25	0.16	0.21
LTI INCIDENCE RATE	0.22	0.12	0.18
LTI FREQUENCY RATE	1.10	0.60	0.88
DART INCIDENCE RATE	0.47	0.28	0.38
DART FREQUENCY RATE	2.33	1.39	1.92
RECORDABLE INCIDENCE RATE	0.74	0.43	0.60
RECORDABLE FREQUENCY RATE	3.70	2.14	3.02

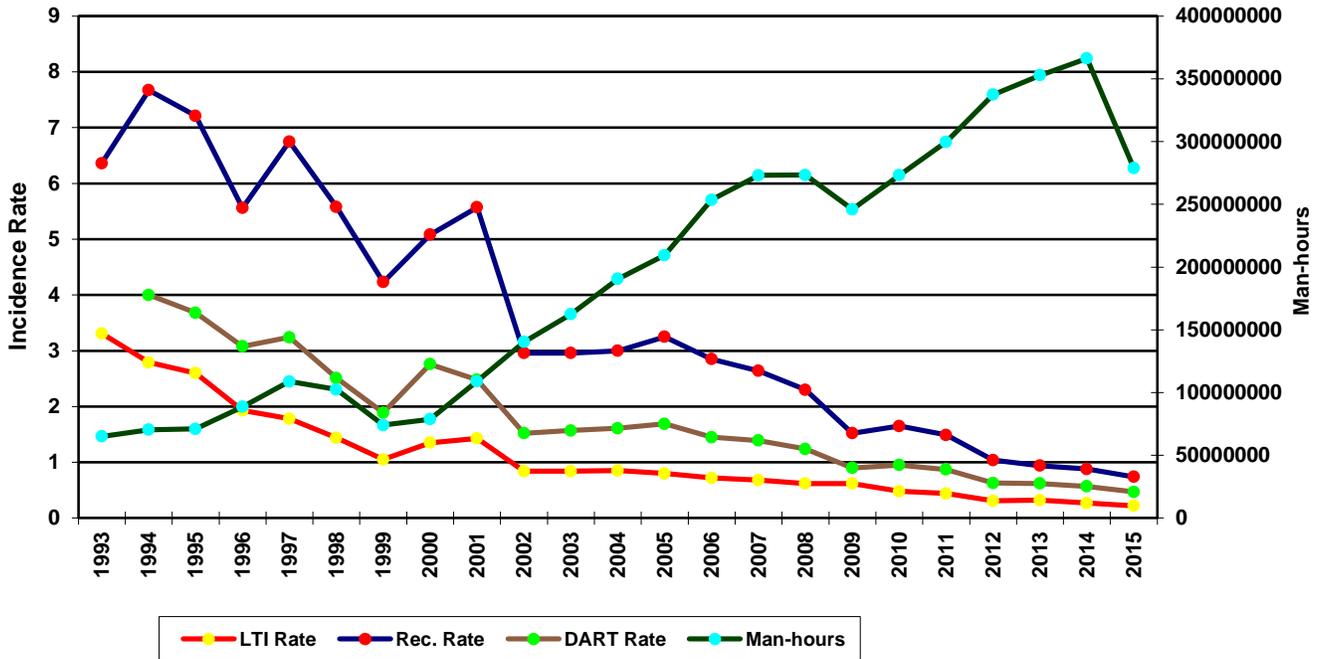
MEDICAL TREATMENT INCIDENCE RATE = MTOs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
 RESTRICTED WORK INCIDENCE RATE = RWCs X 200,000 / MAN-HOURS (LTIs NOT INCLUDED)
 LOST TIME INCIDENCE RATE = (LTIs+FTLs) X 200,000 / MAN-HOURS
 LOST TIME FREQUENCY RATE = (LTIs+FTLs) X 1,000,000 / MAN-HOURS
 DART INCIDENCE 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: 103 – Total; 65 – Land; 54 – Water

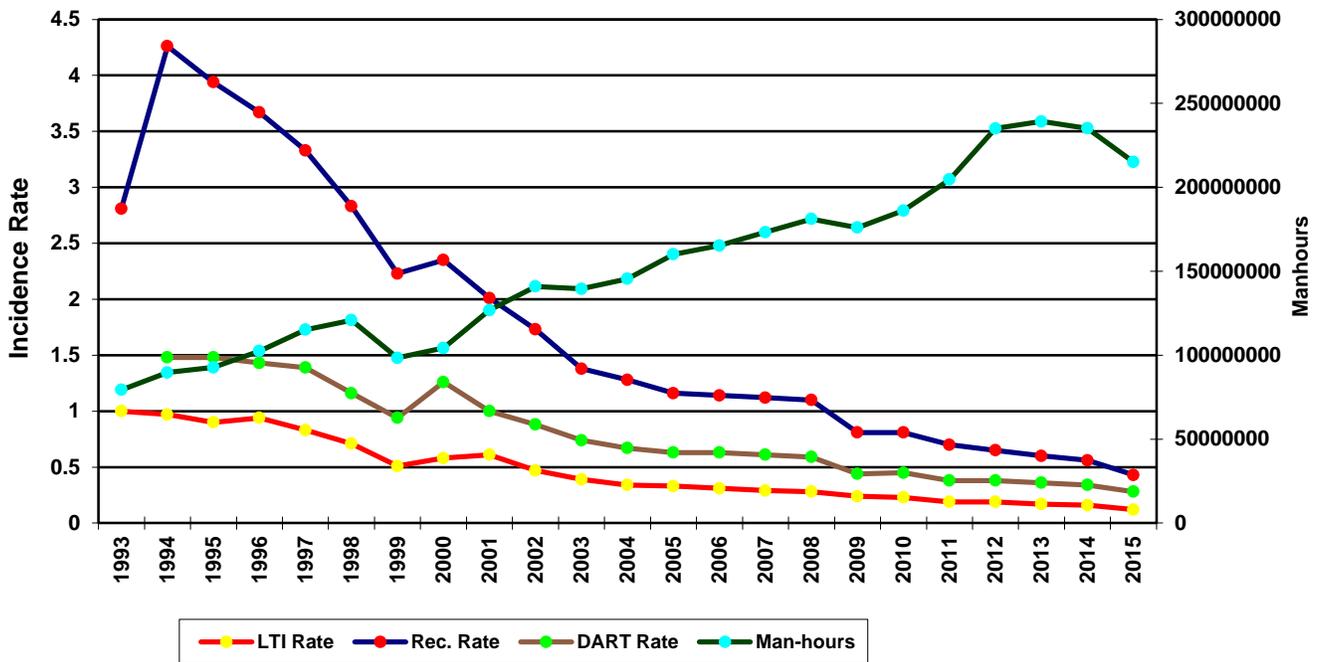
Total Industry LTI & Recordable Incidence Rates vs Man-hours (Figure 1)



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



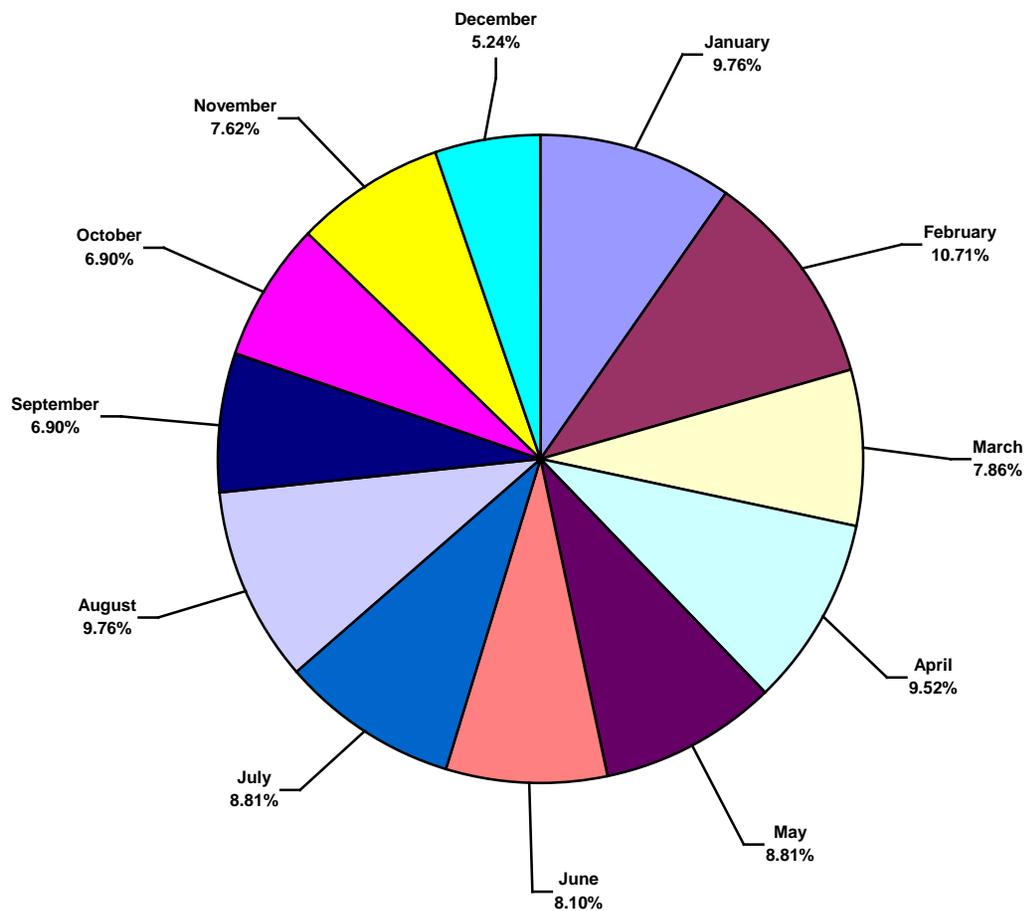
Total Industry Water LTI & Recordable Incidence Rates vs Man-hours (Figure 3)



IADC 2015 Total Industry Charts

Total Industry Lost Time Incidents by Month (Chart 1)

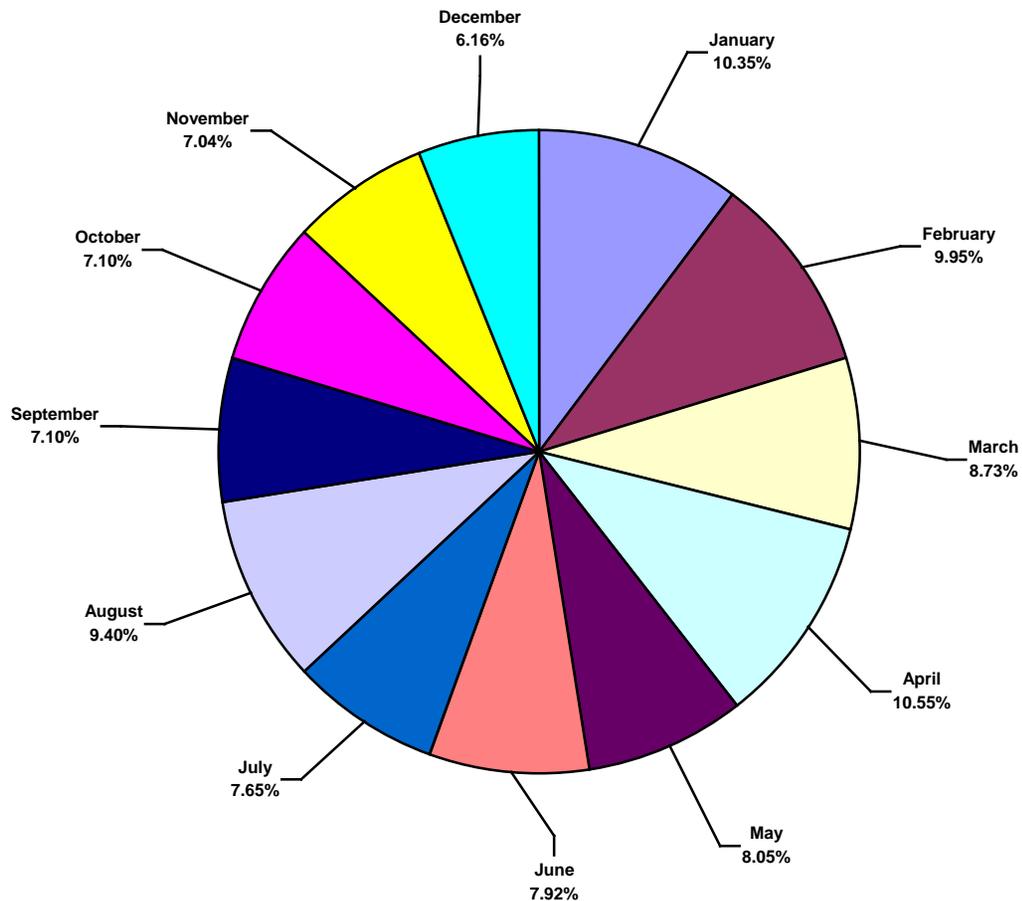
Based on 420 Incidents



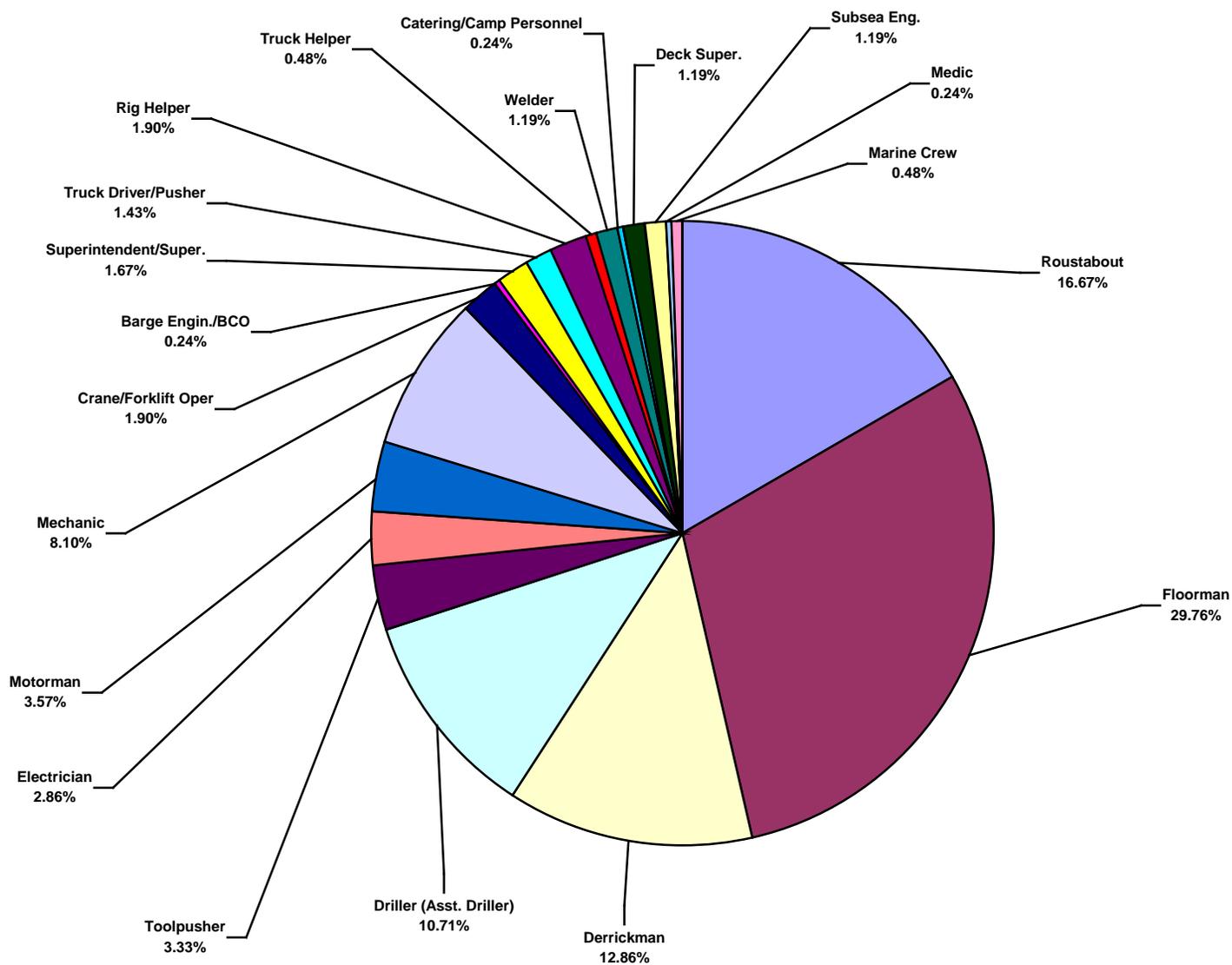
Total Industry Recordable Incidents by Month (Chart 2)

Based on 1478 Incidents

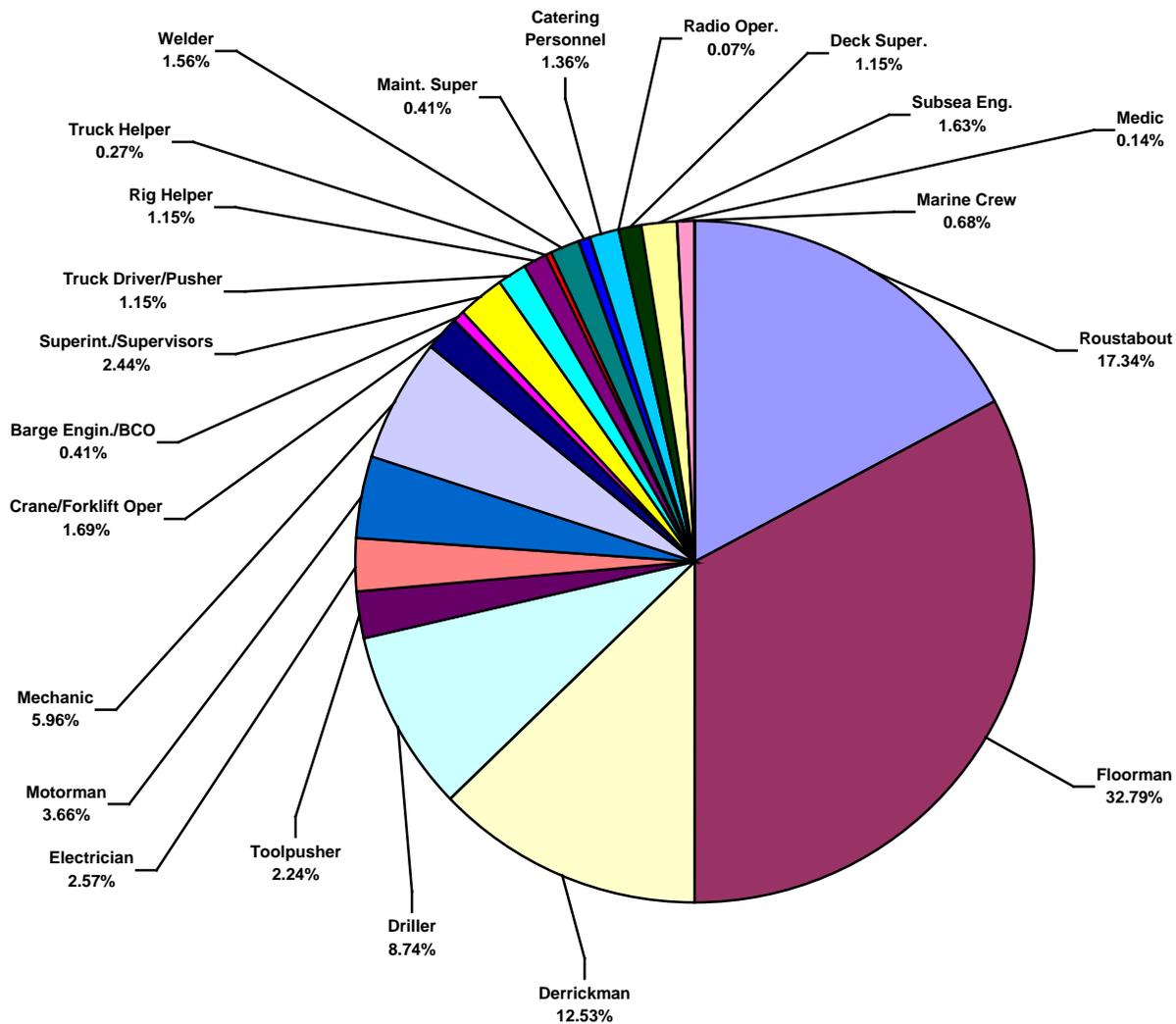
Note: Some pie charts may not appear to show all the slices due to the small percentage the slice represents.



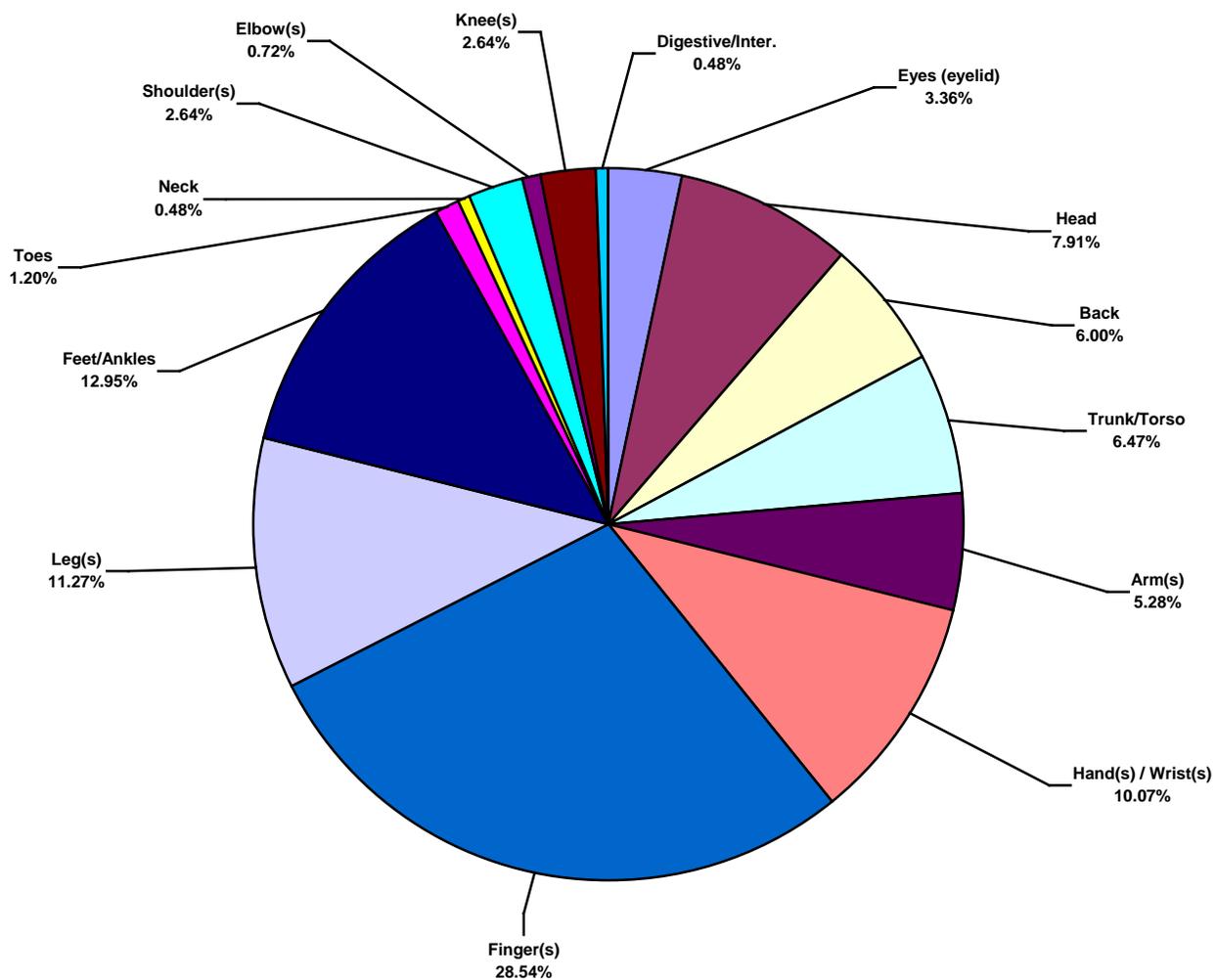
Total Industry Lost Time Incidents by Occupation (Chart 3)
Based on 420 Incidents



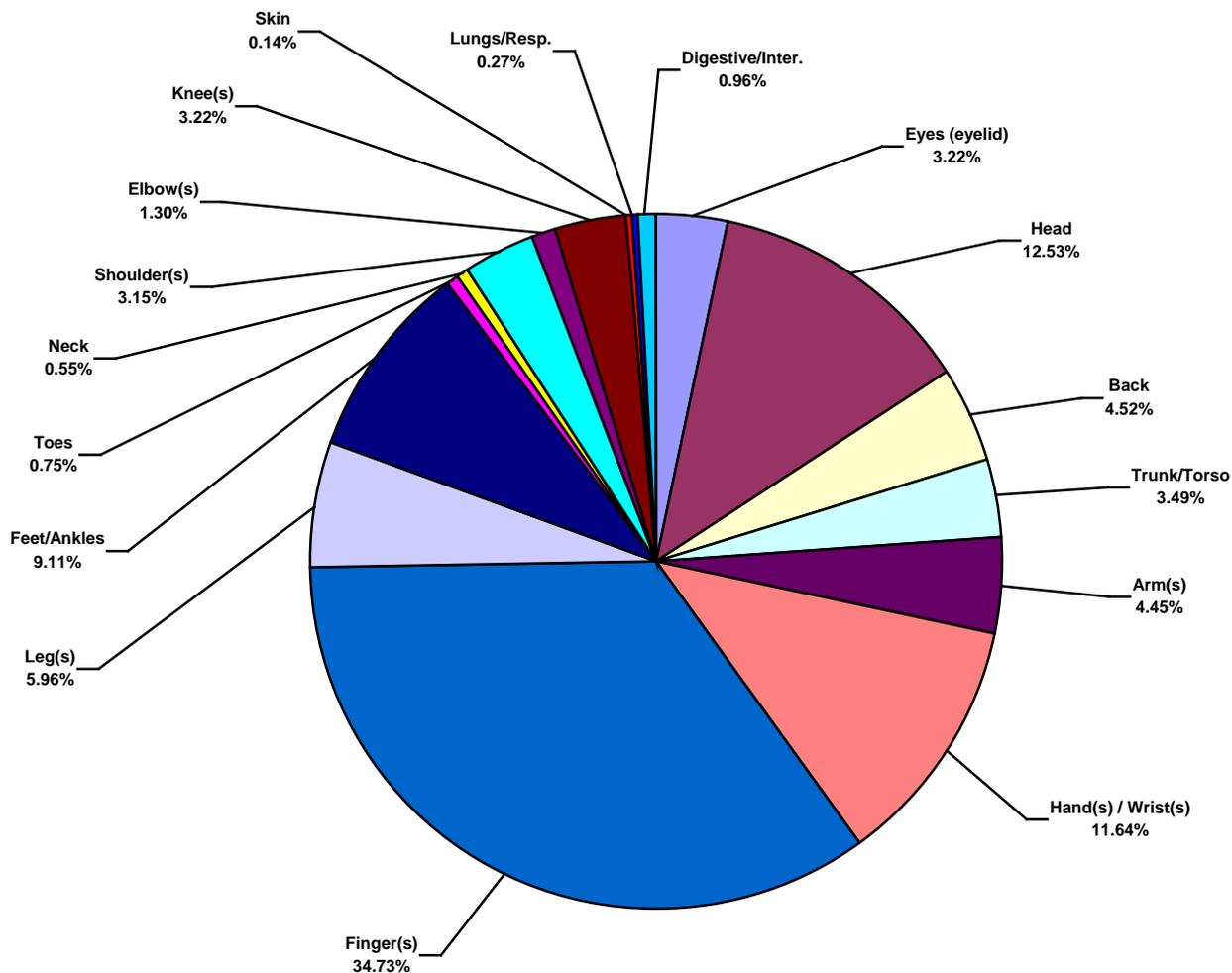
Total Industry Recordable Incidents by Occupation (Chart 4)
Based on 1476 Incidents



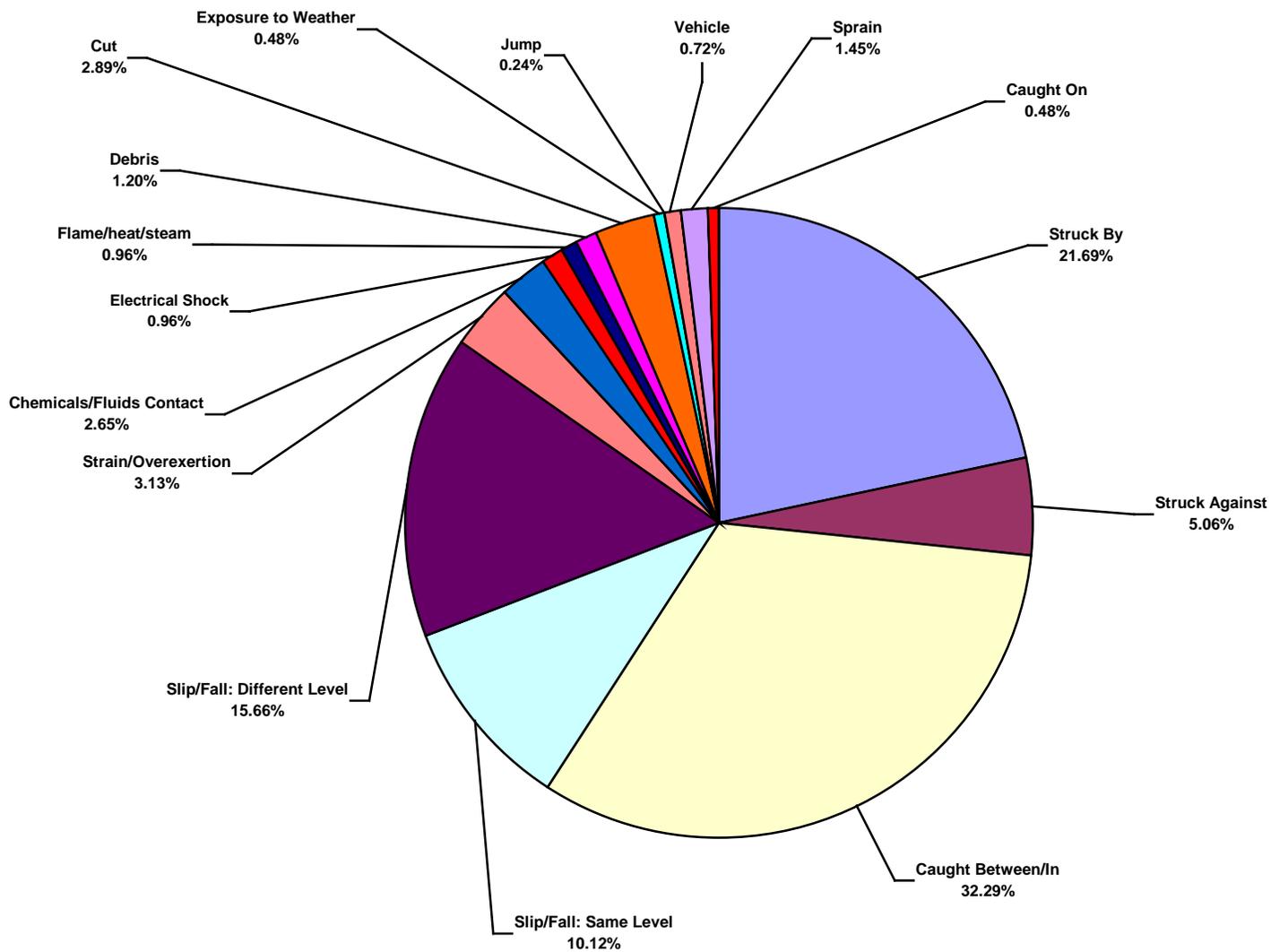
Total Industry Lost Time Incidents by Body Part (Chart 5)
Based on 417 Incidents



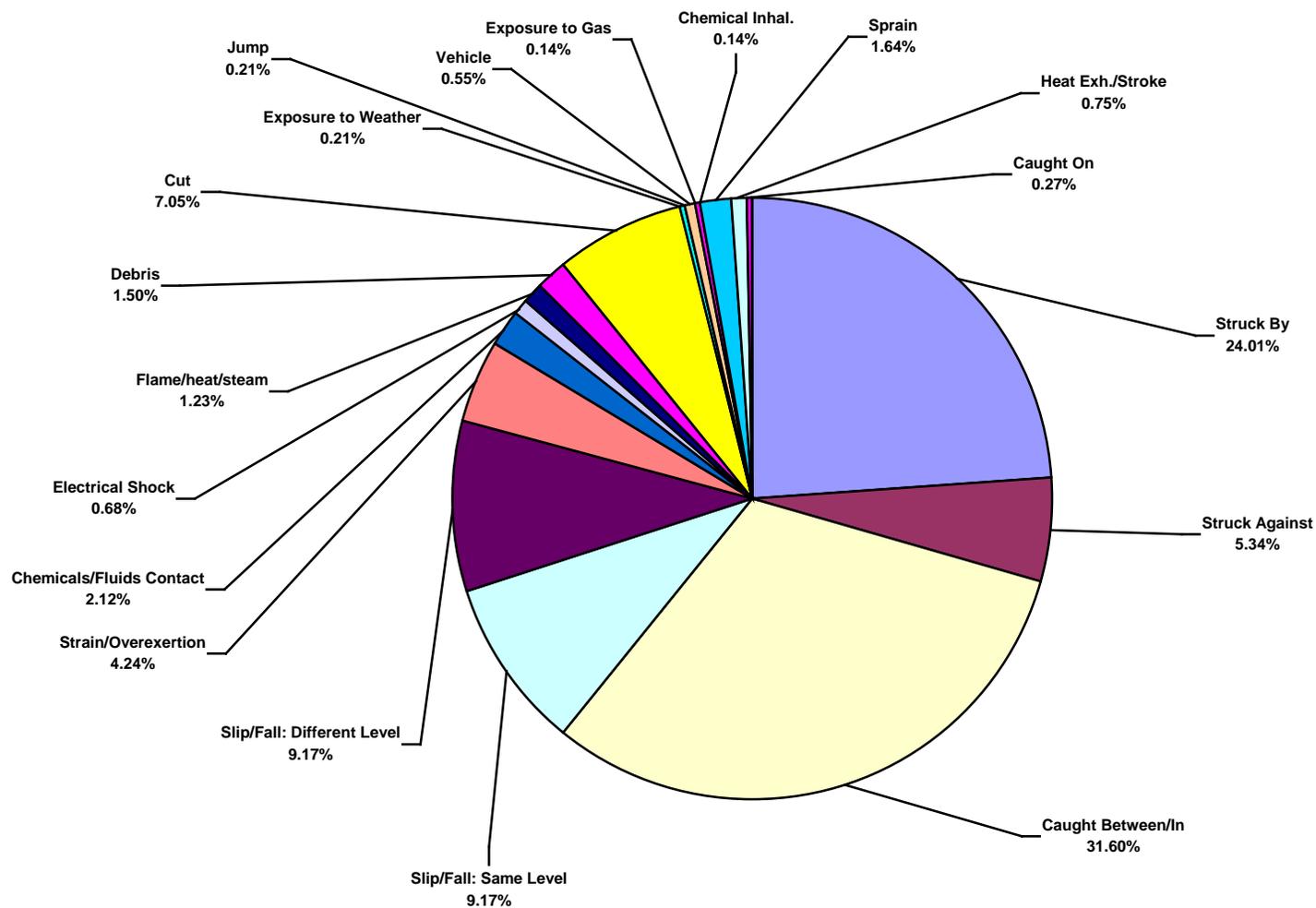
Total Industry Recordable Incidents by Body Part (Chart 6)
Based on 1460 Incidents



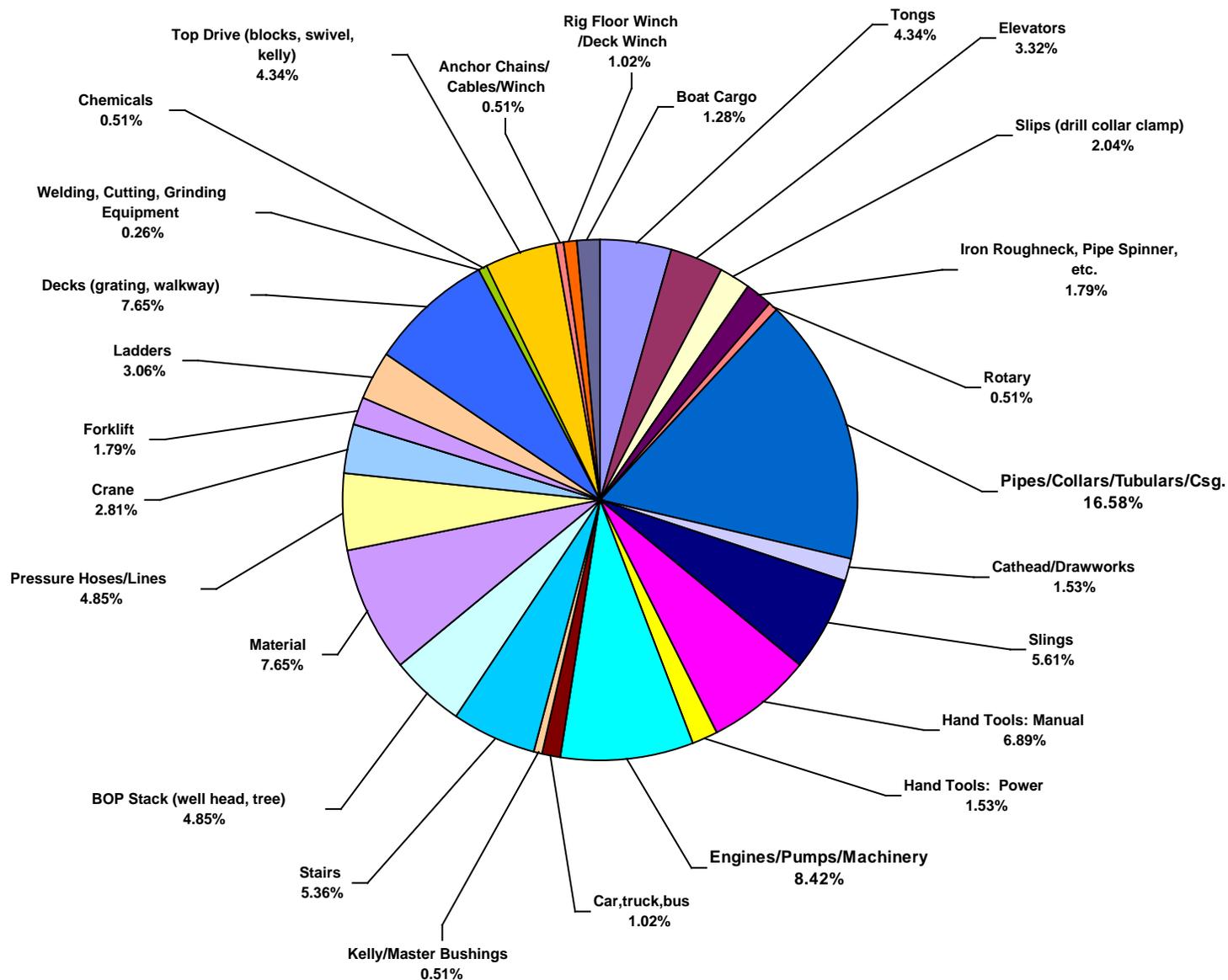
Total Industry Lost Time Incidents by Incident Type (Chart 7)
Based on 415 Incidents



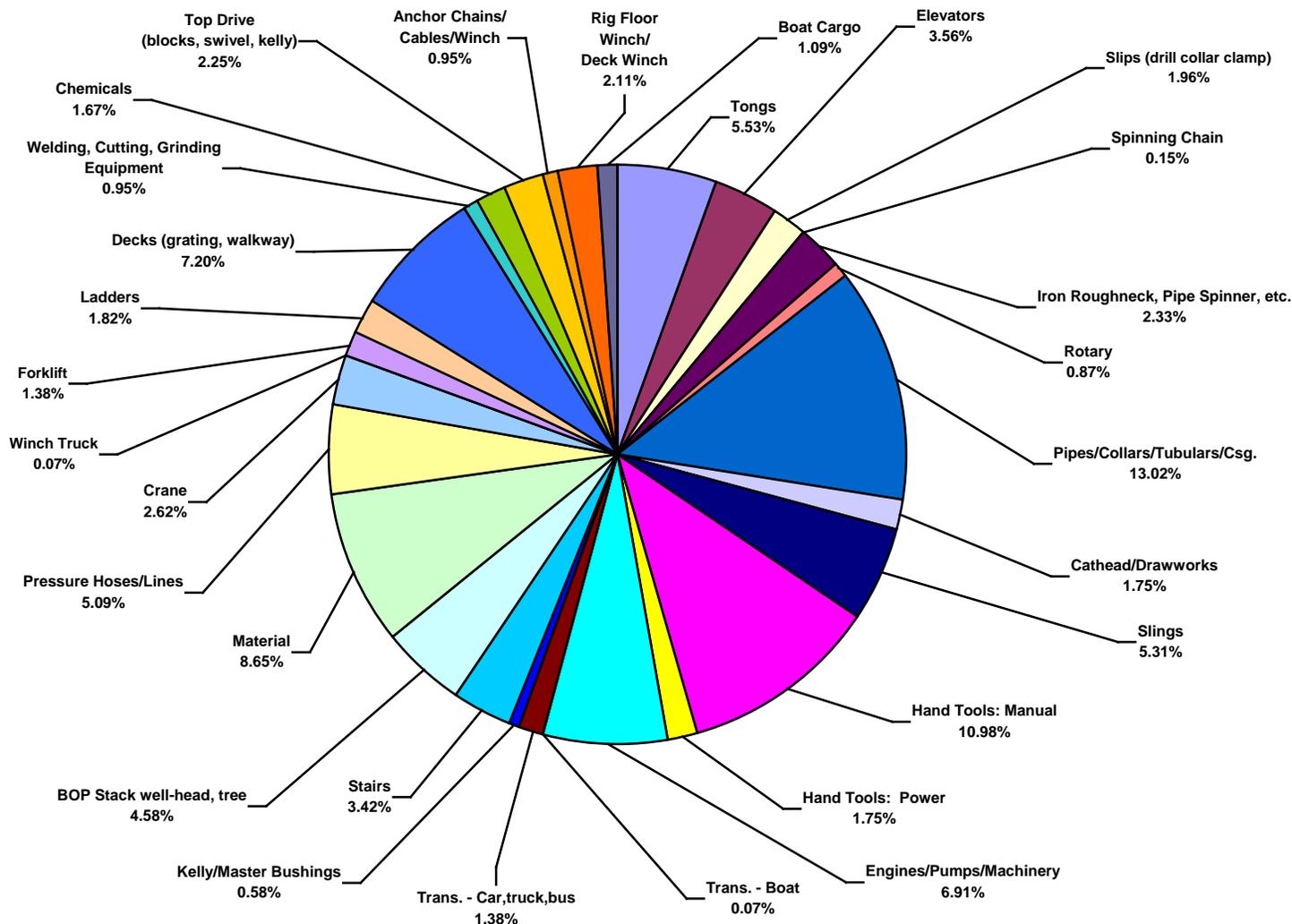
Total Industry Recordable Incidents by Incident Type (Chart 8)
Based on 1462 Incidents



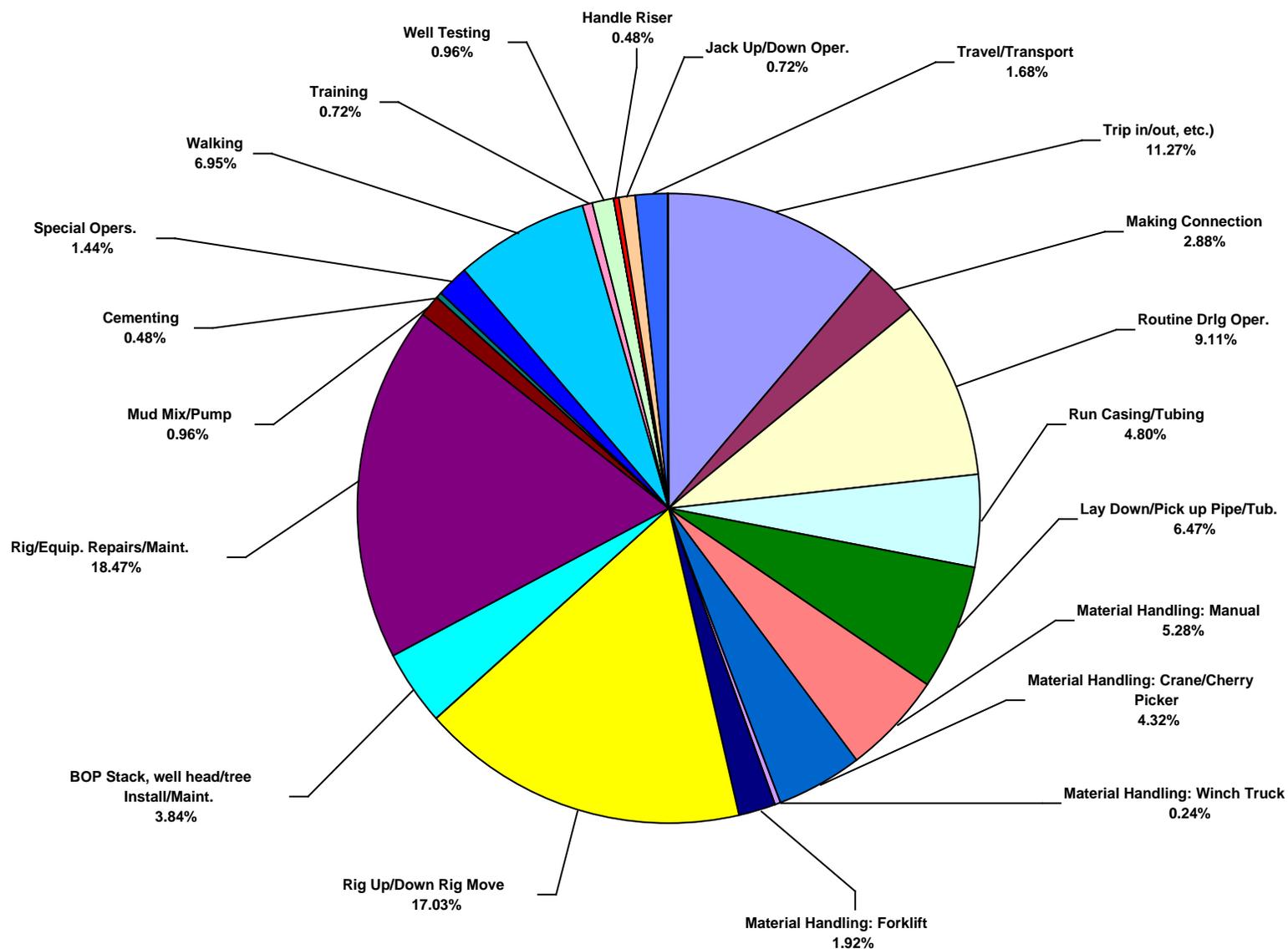
Total Industry Lost Time Incidents by Equipment (Chart 9)
Based on 392 Incidents



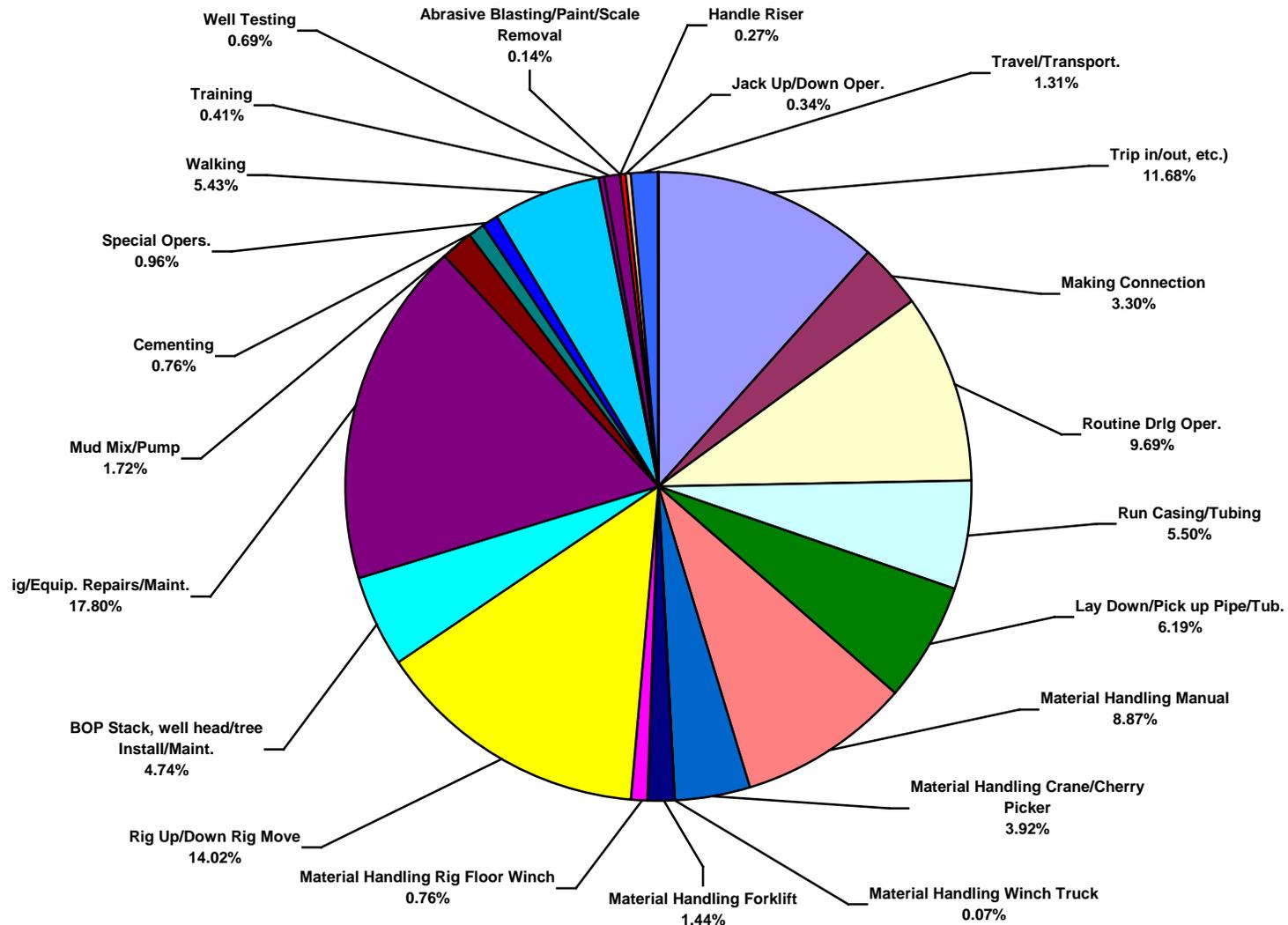
Total Industry Recordable Incidents by Equipment (Chart 10)
Based on 1375 Incidents



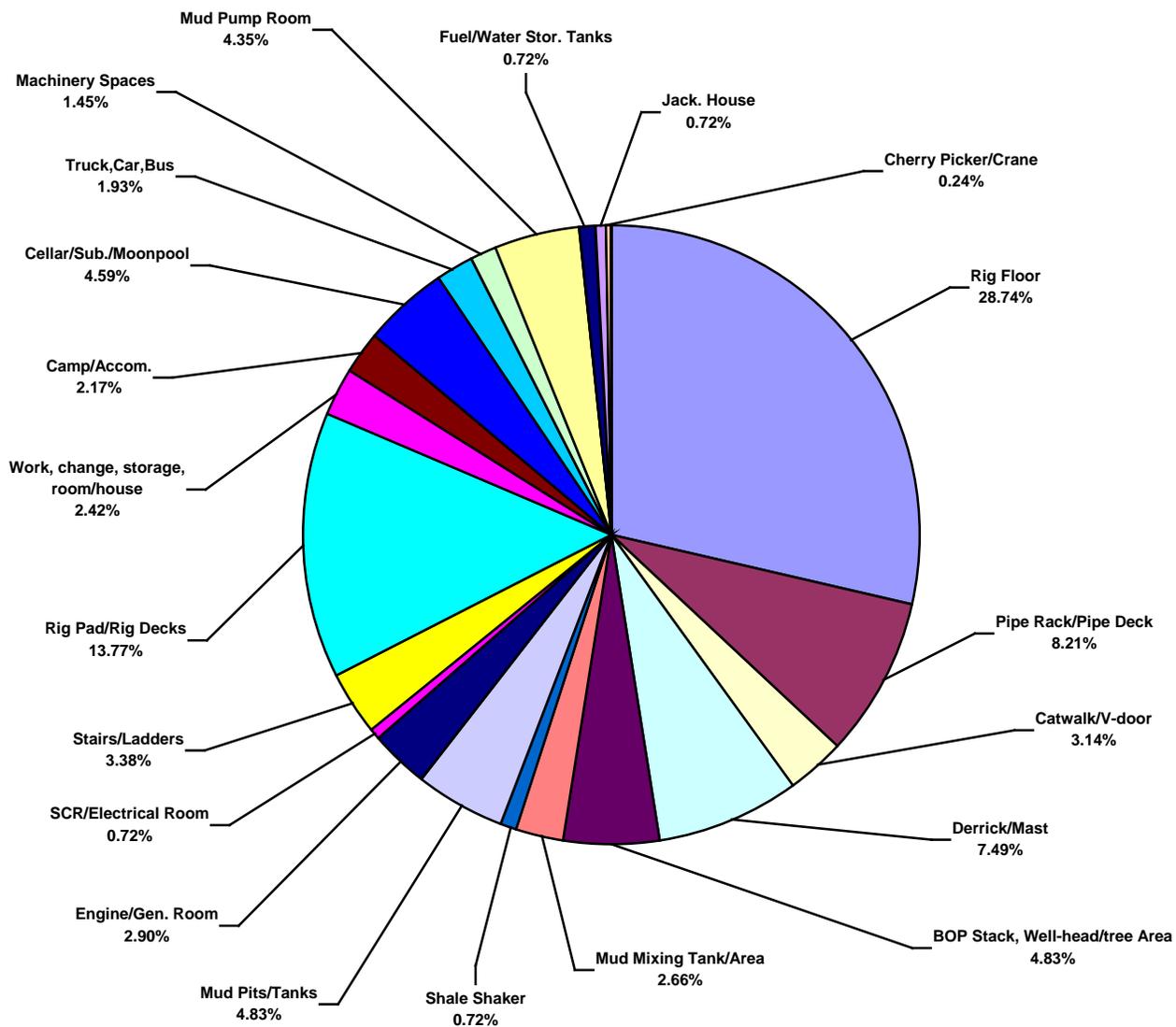
Total Industry Lost Time Incidents by Operation (Chart 11)
Based on 417 Incidents



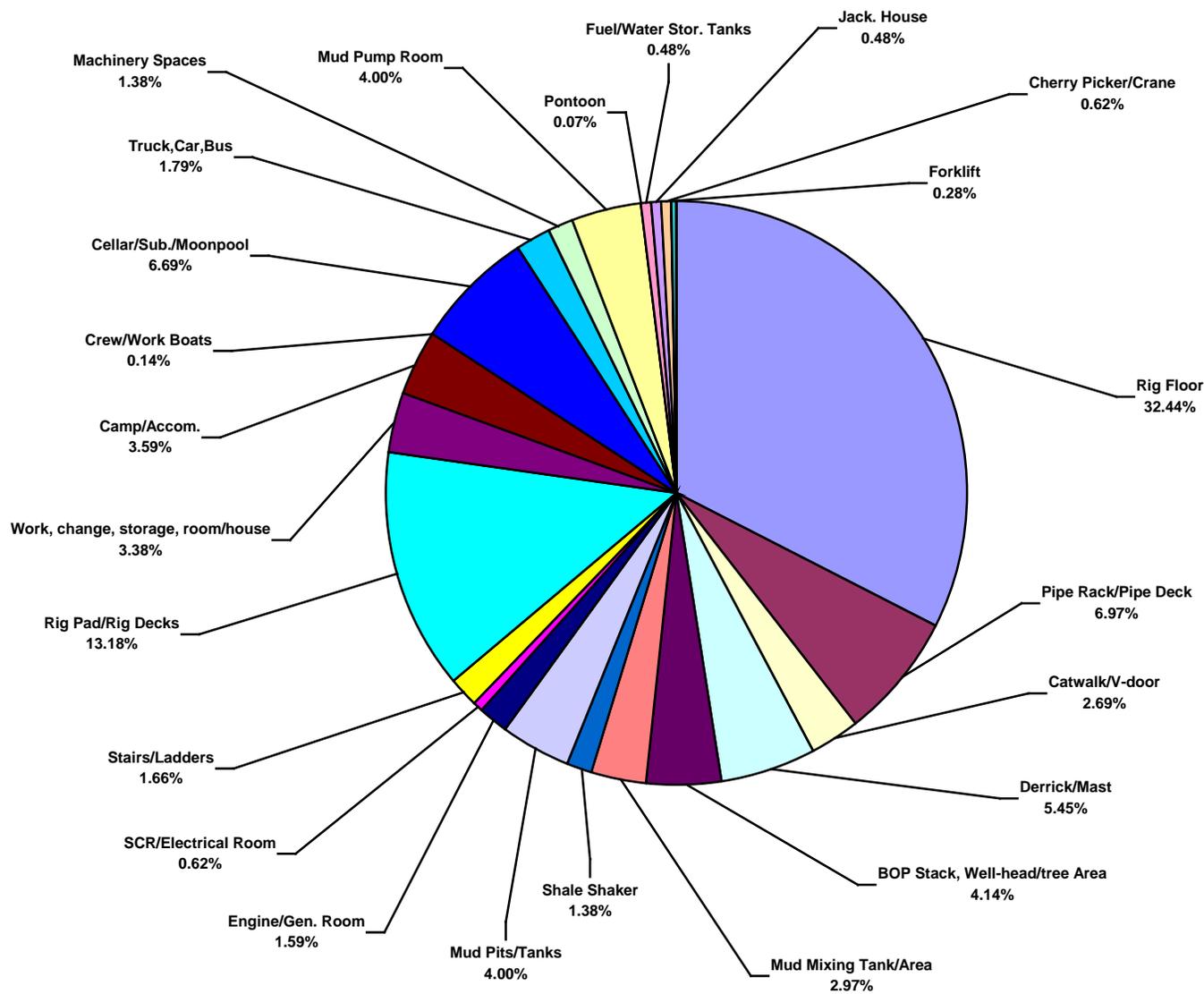
Total Industry Recordable Incidents by Operation (Chart 12)
Based on 1455 Incidents



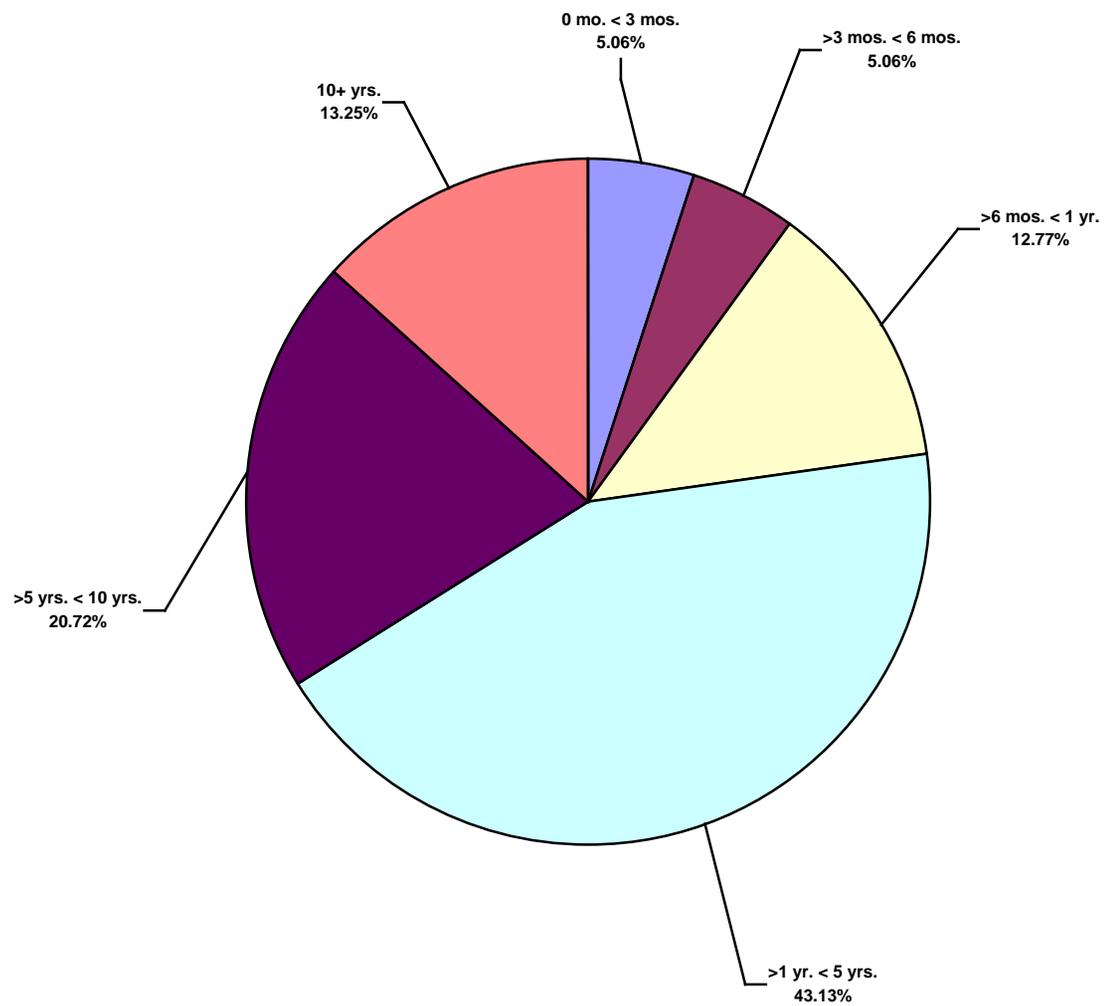
Total Industry Lost Time Incidents by Location (Chart 13)
Based on 415 Incidents



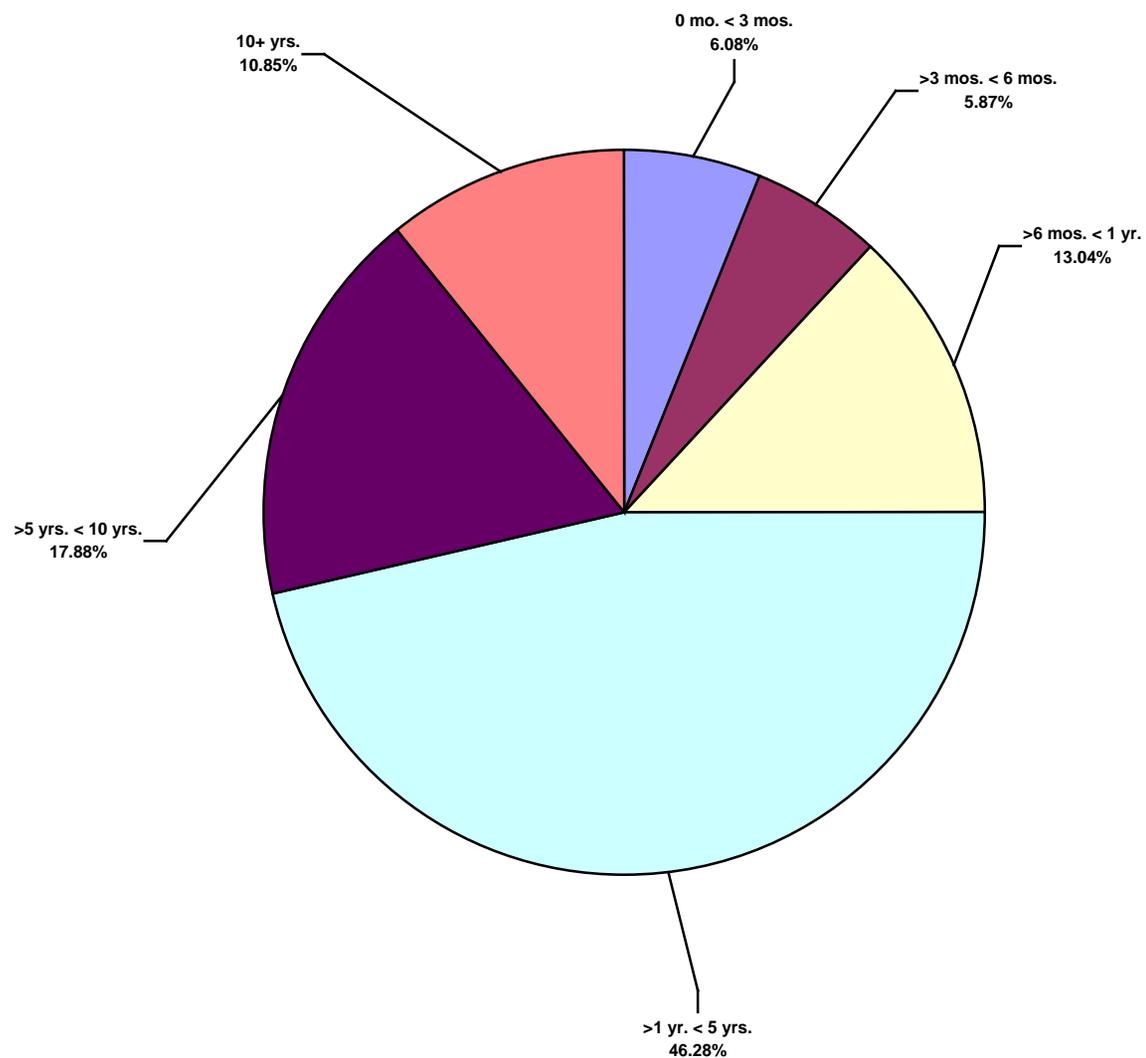
Total Industry Recordable Incidents by Location (Chart 14)
 Based on 1451 Incidents



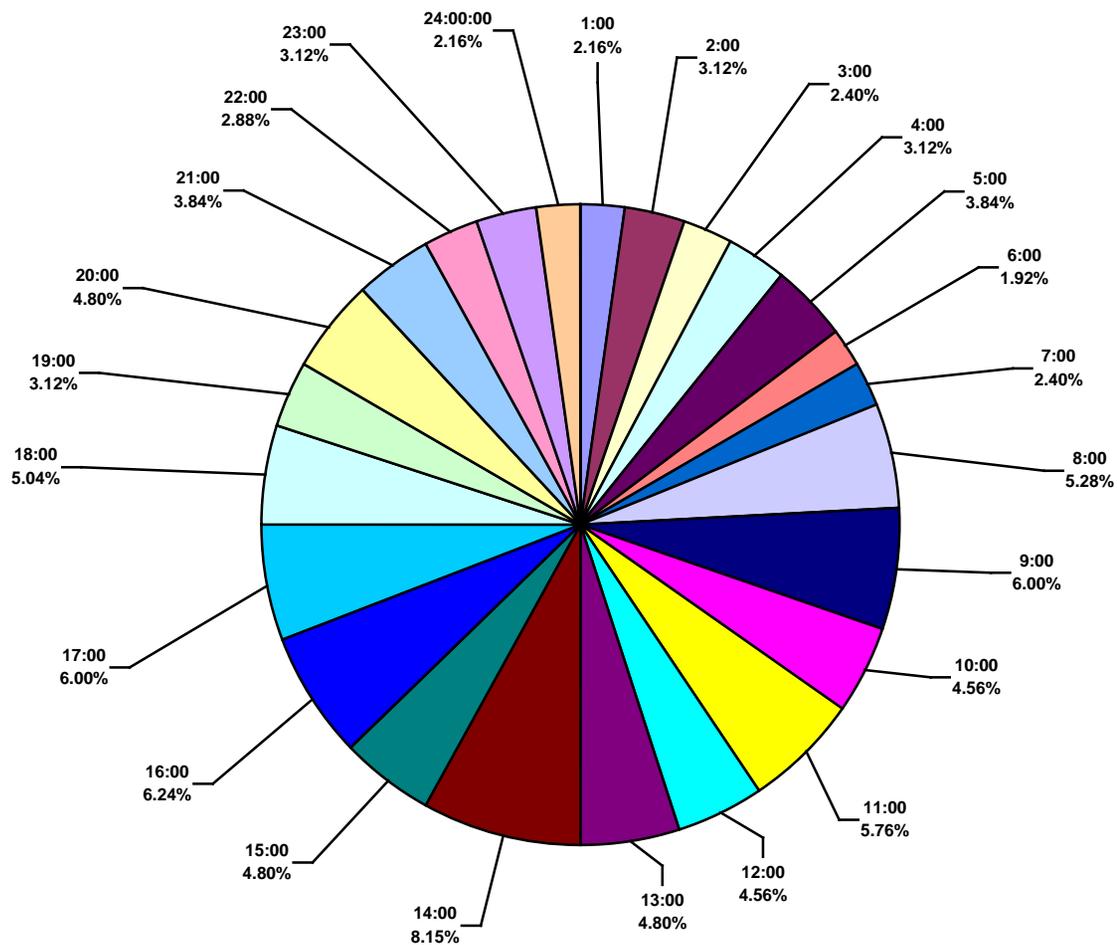
Total Industry Lost Time Incidents by Time in Service (Chart 15)
Based on 415 Incidents



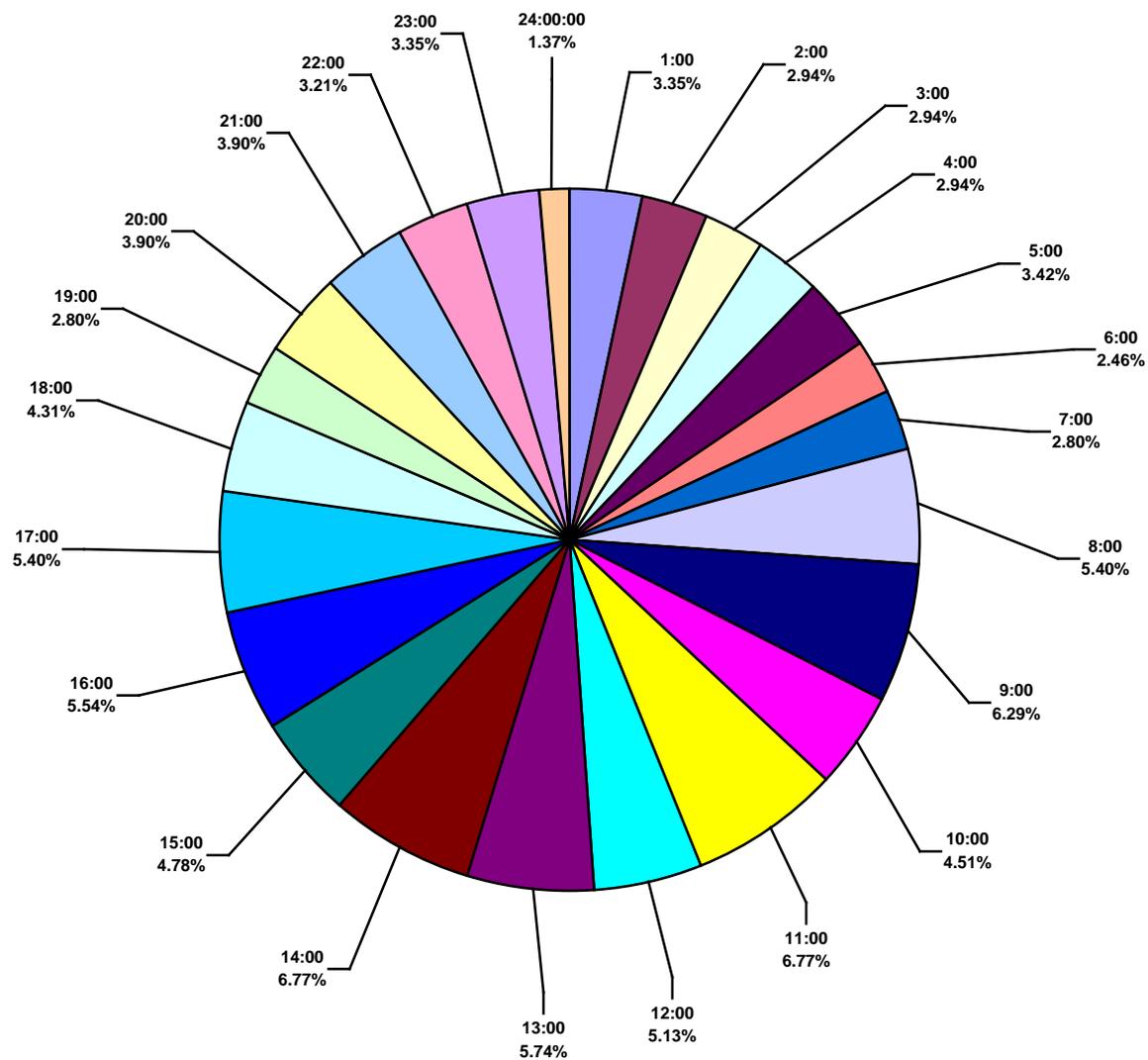
Total Industry Recordable Incidents by Time in Service (Chart 16)
Based on 1465 Incidents



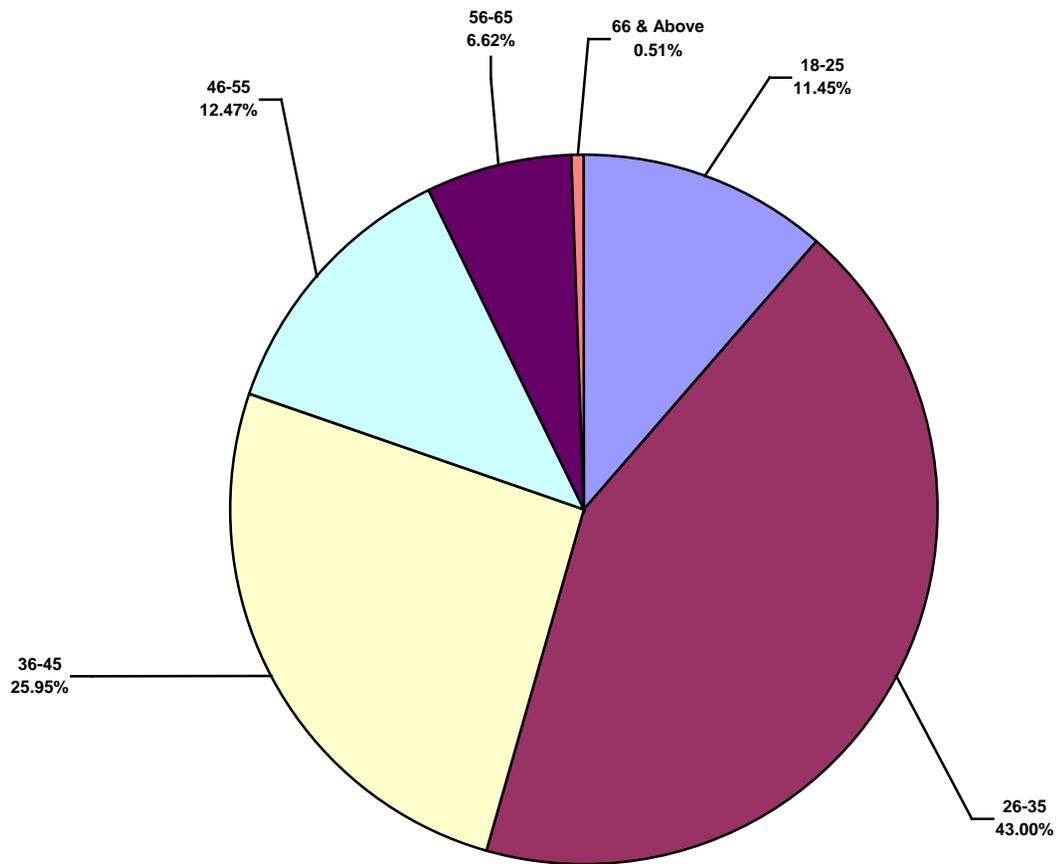
Total Industry Lost Time Incidents by Time of Day (Chart 17)
Based on 417 Incidents



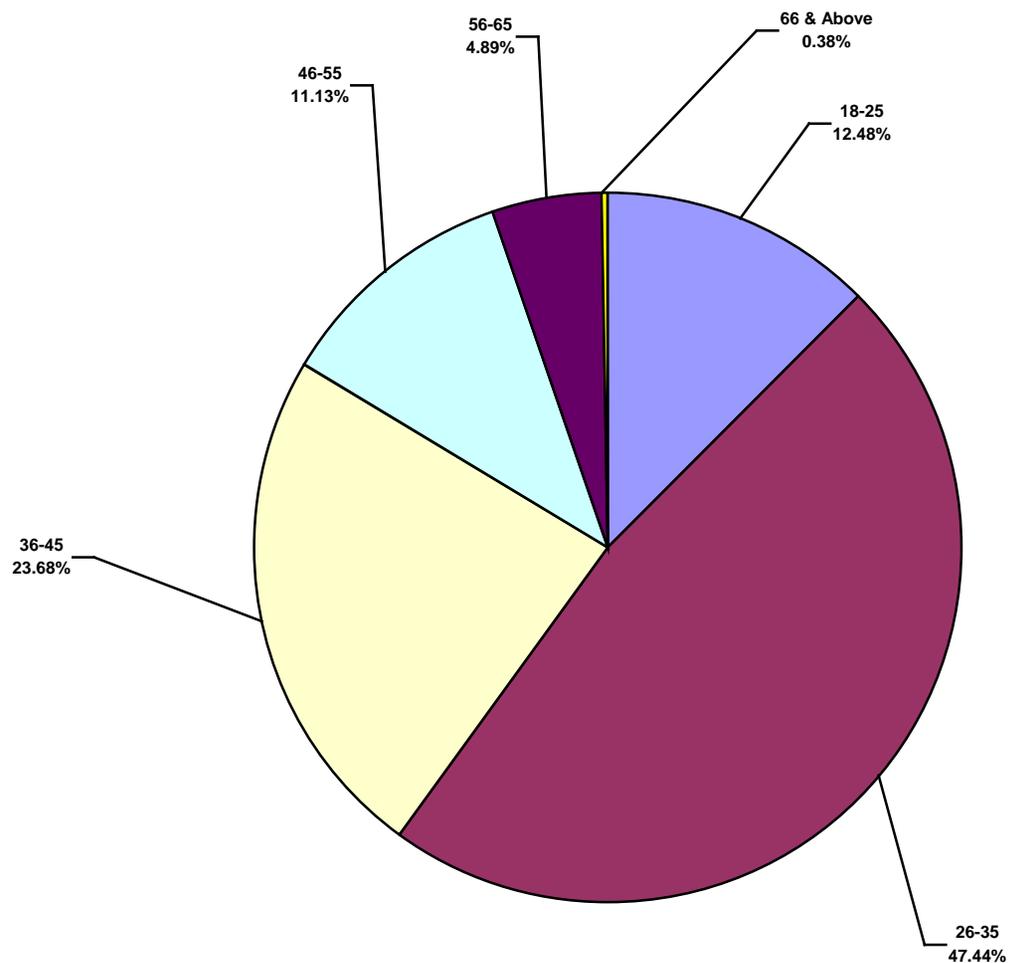
Total Industry Recordable Incidents by Time of Day (Chart 18)
Based on 1463 Incidents



Total Industry Lost Time Incidents by Age (Chart 19)
Based on 393 Incidents



Total Industry Recordable Incidents by Age (Chart 20)
Based on 1330 Incidents



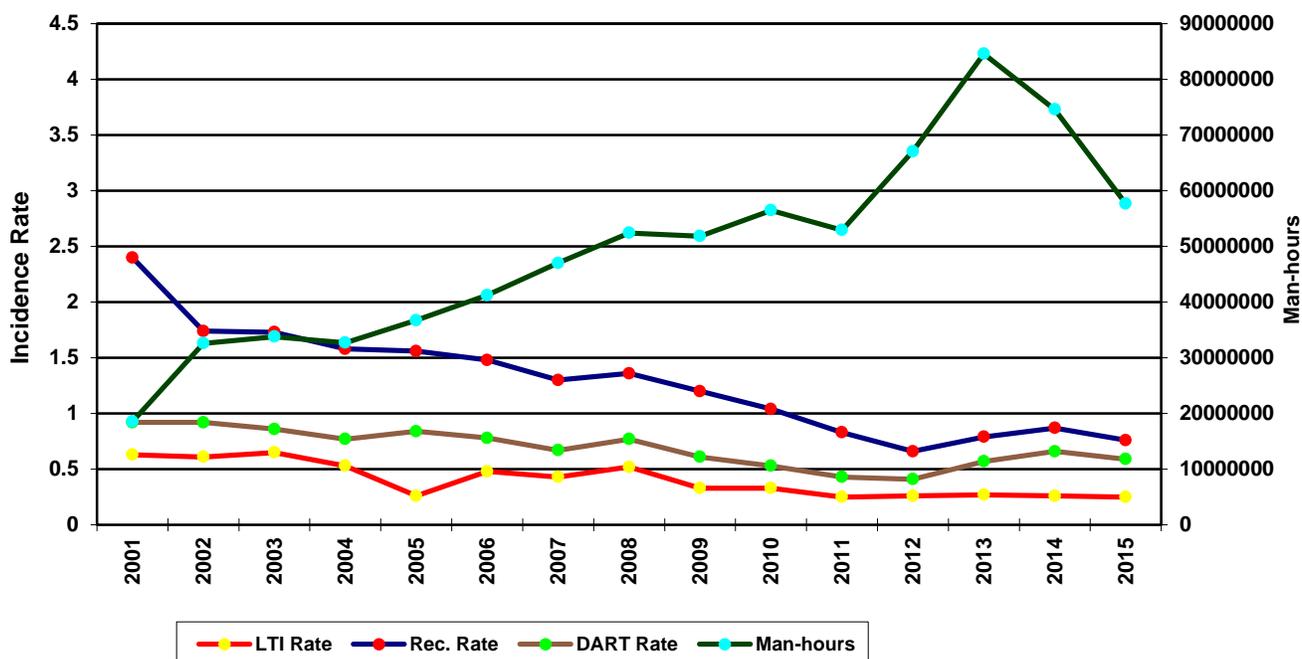
**2015 ISP Program Regional Totals
Combined Land & Water
IADC 2015 Africa Totals (Table 4)**

	LAND	WATER	COMBINED
TOTAL MANHOURS	29,734,165	27,933,397	57,667,562
TOTAL MEDICAL TREATMENT INCIDENTS	32	17	49
TOTAL RESTRICTED WORK INCIDENTS	82	18	100
TOTAL LOST TIME INCIDENTS	55	13	68
TOTAL FATALITIES	3	0	3
TOTAL RECORDABLES	172	48	220
MTO INCIDENCE RATE	0.22	0.12	0.17
RWC INCIDENCE RATE	0.55	0.13	0.35
LTI INCIDENCE RATE	0.39	0.09	0.25
LTI FREQUENCY RATE	1.95	0.47	1.23
DART INCIDENCE RATE	0.94	0.22	0.59
DART FREQUENCY RATE	4.71	1.11	2.97
RECORDABLE INCIDENCE RATE	1.16	0.34	0.76
RECORDABLE FREQUENCY RATE	5.78	1.72	3.81

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 – 12 Water – 25

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



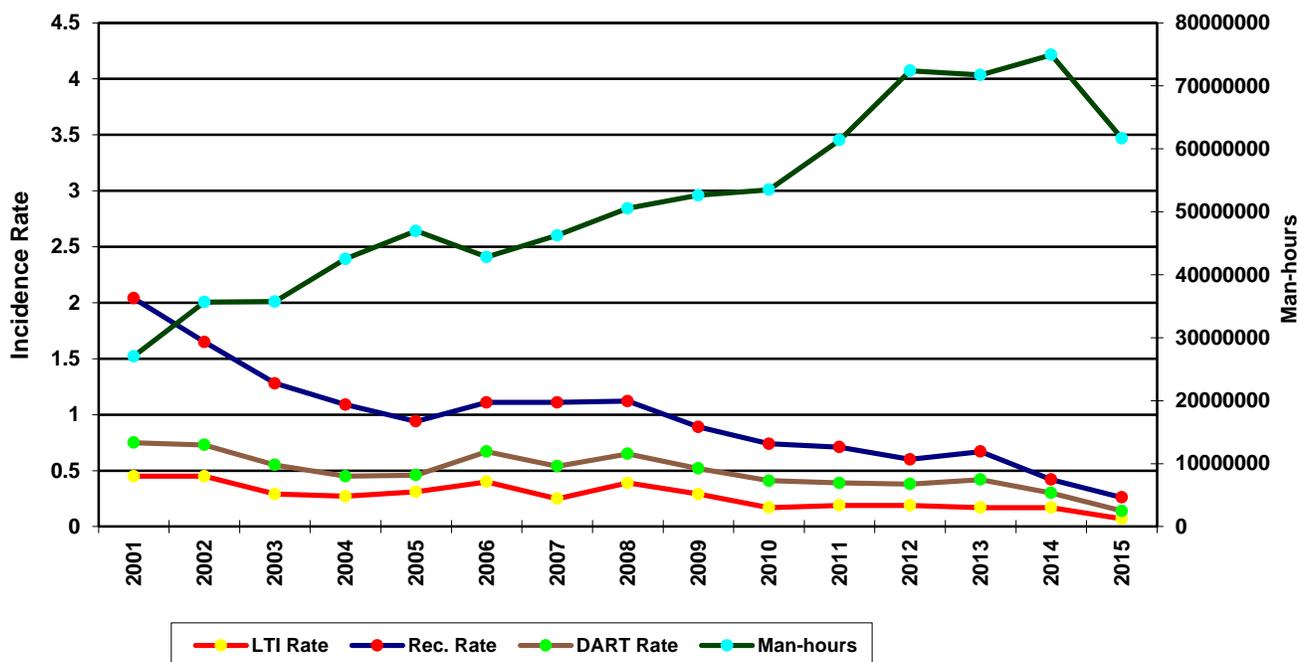
IADC 2015 Asia Pacific Totals (Table 5)

	LAND	WATER	COMBINED
TOTAL MANHOURS	17,142,377	44,518,774	61,661,151
TOTAL MEDICAL TREATMENT INCIDENTS	13	25	38
TOTAL RESTRICTED WORK INCIDENTS	7	15	22
TOTAL LOST TIME INCIDENTS	9	12	21
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	29	52	81
MTO INCIDENCE RATE	0.15	0.11	0.12
RWC INCIDENCE RATE	0.08	0.07	0.07
LTI INCIDENCE RATE	0.11	0.05	0.07
LTI FREQUENCY RATE	0.53	0.27	0.34
DART INCIDENCE RATE	0.19	0.12	0.14
DART FREQUENCY RATE	0.93	0.61	0.70
RECORDABLE INCIDENCE RATE	0.34	0.23	0.26
RECORDABLE FREQUENCY RATE	1.69	1.17	1.31

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 – 13 Water – 32

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



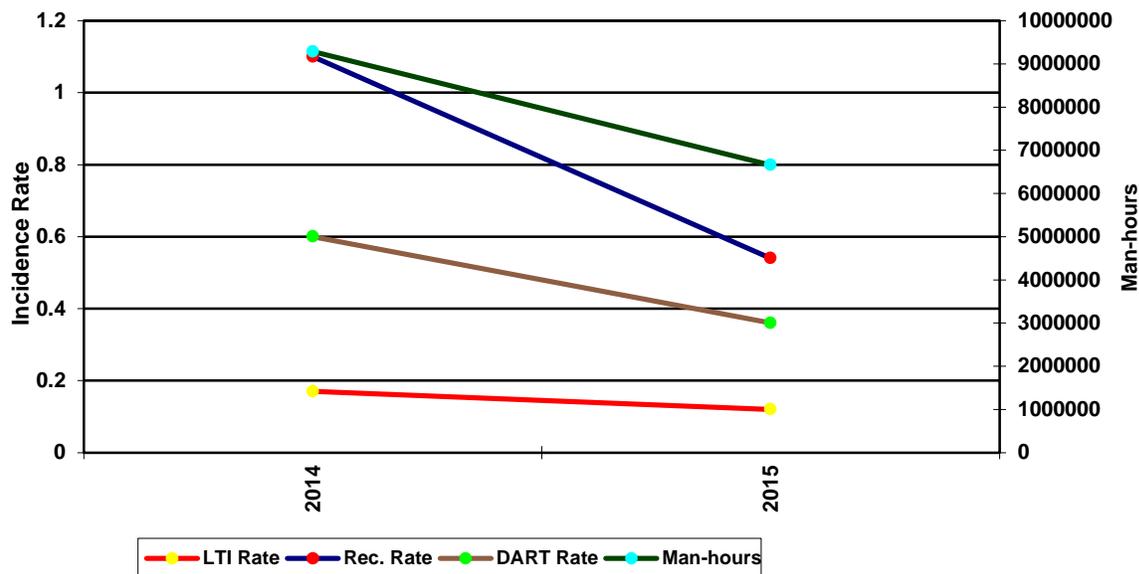
IADC 2015 Australasia Totals (Table 6)

	LAND	WATER	COMBINED
TOTAL MANHOURS	2,663,911	3,995,411	6,659,322
TOTAL MEDICAL TREATMENT INCIDENTS	4	2	6
TOTAL RESTRICTED WORK INCIDENTS	1	7	8
TOTAL LOST TIME INCIDENTS	2	2	4
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	7	11	18
MTO INCIDENCE RATE	0.30	0.10	0.18
RWC INCIDENCE RATE	0.08	0.35	0.24
LTI INCIDENCE RATE	0.15	0.10	0.12
LTI FREQUENCY RATE	0.75	0.50	0.60
DART INCIDENCE RATE	0.23	0.45	0.36
DART FREQUENCY RATE	1.13	2.25	1.80
RECORDABLE INCIDENCE RATE	0.53	0.55	0.54
RECORDABLE FREQUENCY RATE	2.63	2.75	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 – 7; Water – 10

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



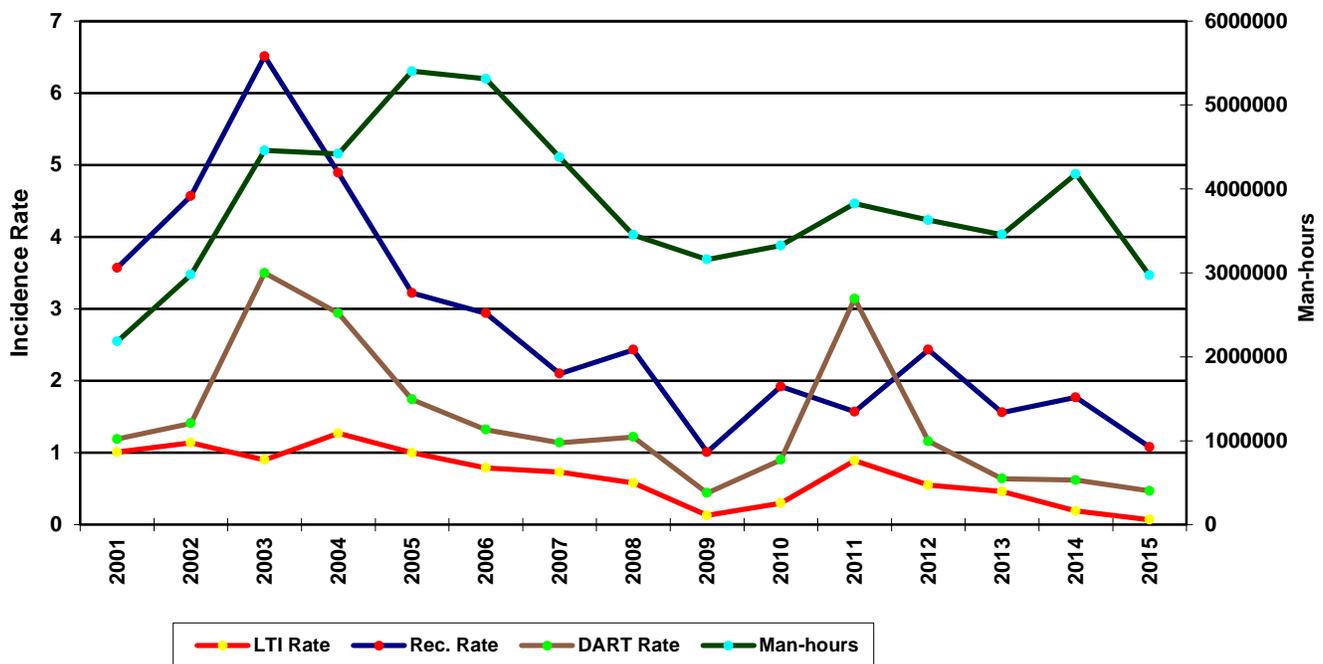
IADC 2015 Canada Totals (Table 7)

	LAND	WATER	COMBINED
TOTAL MANHOURS	1,473,827	1,496,644	2,970,471
TOTAL MEDICAL TREATMENT INCIDENTS	7	2	9
TOTAL RESTRICTED WORK INCIDENTS	2	4	6
TOTAL LOST TIME INCIDENTS	1	0	1
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	10	6	16
MTO INCIDENCE RATE	0.95	0.27	0.61
RWC INCIDENCE RATE	0.27	0.53	0.40
LTI INCIDENCE RATE	0.14	0.00	0.07
LTI FREQUENCY RATE	0.68	0.00	0.34
DART INCIDENCE RATE	0.41	0.53	0.47
DART FREQUENCY RATE	2.04	2.67	2.36
RECORDABLE INCIDENCE RATE	1.36	0.80	1.08
RECORDABLE FREQUENCY RATE	6.79	4.01	5.39

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 – 4 Water – 4

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



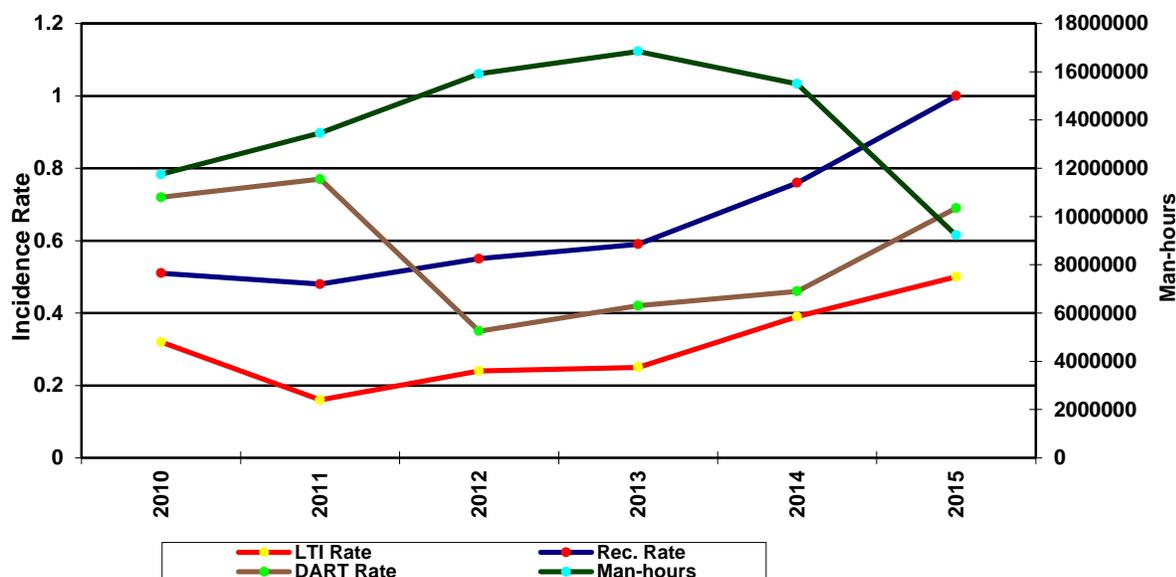
IADC 2015 Central America & Caribbean Totals (Table 8)

	LAND	WATER	COMBINED
TOTAL MANHOURS	3,659,272	5,564,937	9,224,209
TOTAL MEDICAL TREATMENT INCIDENTS	9	5	14
TOTAL RESTRICTED WORK INCIDENTS	2	7	9
TOTAL LOST TIME INCIDENTS	18	5	23
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	29	17	46
MTO INCIDENCE RATE	0.49	0.18	0.30
RWC INCIDENCE RATE	0.11	0.25	0.20
LTI INCIDENCE RATE	0.98	0.18	0.50
LTI FREQUENCY RATE	4.92	0.90	2.49
DART INCIDENCE RATE	1.09	0.43	0.69
DART FREQUENCY RATE	5.47	2.16	3.47
RECORDABLE INCIDENCE RATE	1.59	0.61	1.00
RECORDABLE FREQUENCY RATE	7.93	3.05	4.99

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 – 9

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



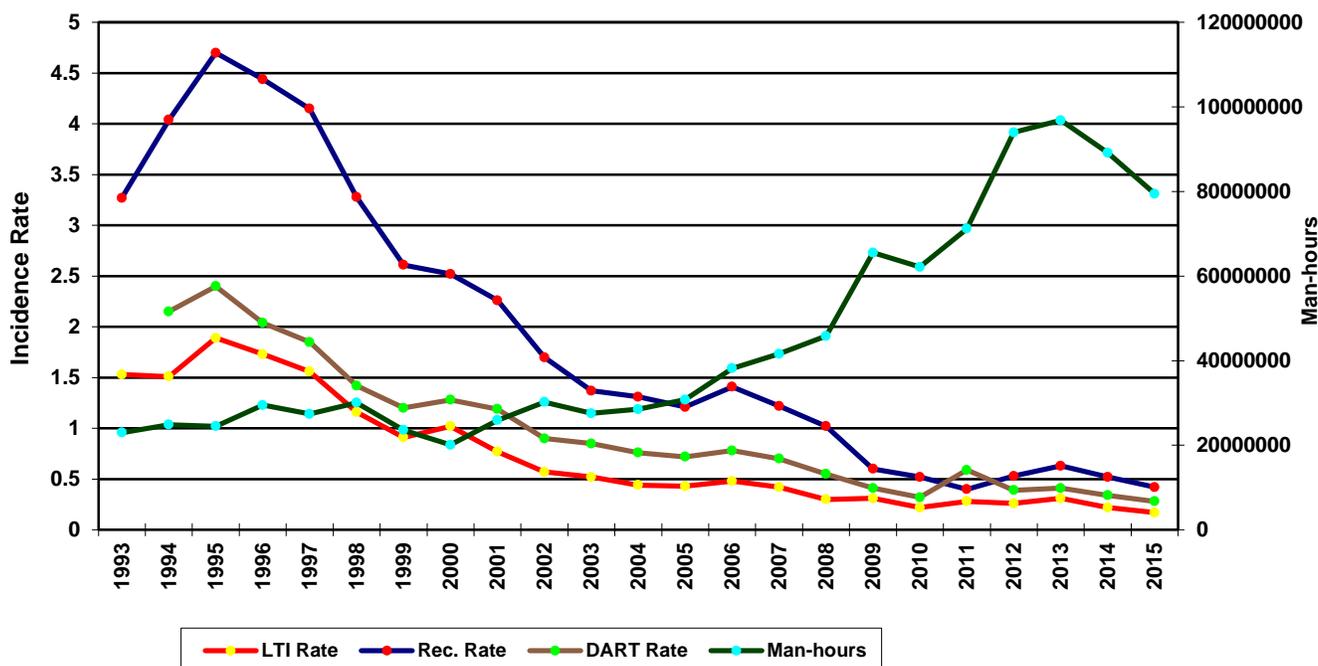
IADC 2015 European Totals (Table 9)

	LAND	WATER	COMBINED
TOTAL MANHOURS	42,911,869	36,544,080	79,455,949
TOTAL MEDICAL TREATMENT INCIDENTS	11	42	53
TOTAL RESTRICTED WORK INCIDENTS	6	40	46
TOTAL LOST TIME INCIDENTS	30	34	64
TOTAL FATALITIES	2	0	2
TOTAL RECORDABLES	49	116	165
MTO INCIDENCE RATE	0.05	0.23	0.13
RWC INCIDENCE RATE	0.03	0.22	0.12
LTI INCIDENCE RATE	0.15	0.19	0.17
LTI FREQUENCY RATE	0.75	0.93	0.83
DART INCIDENCE RATE	0.18	0.40	0.28
DART FREQUENCY RATE	0.89	0.02	1.41
RECORDABLE INCIDENCE RATE	0.23	0.63	0.42
RECORDABLE FREQUENCY RATE	1.14	3.17	2.08

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)
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 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 – 13 Water – 23

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



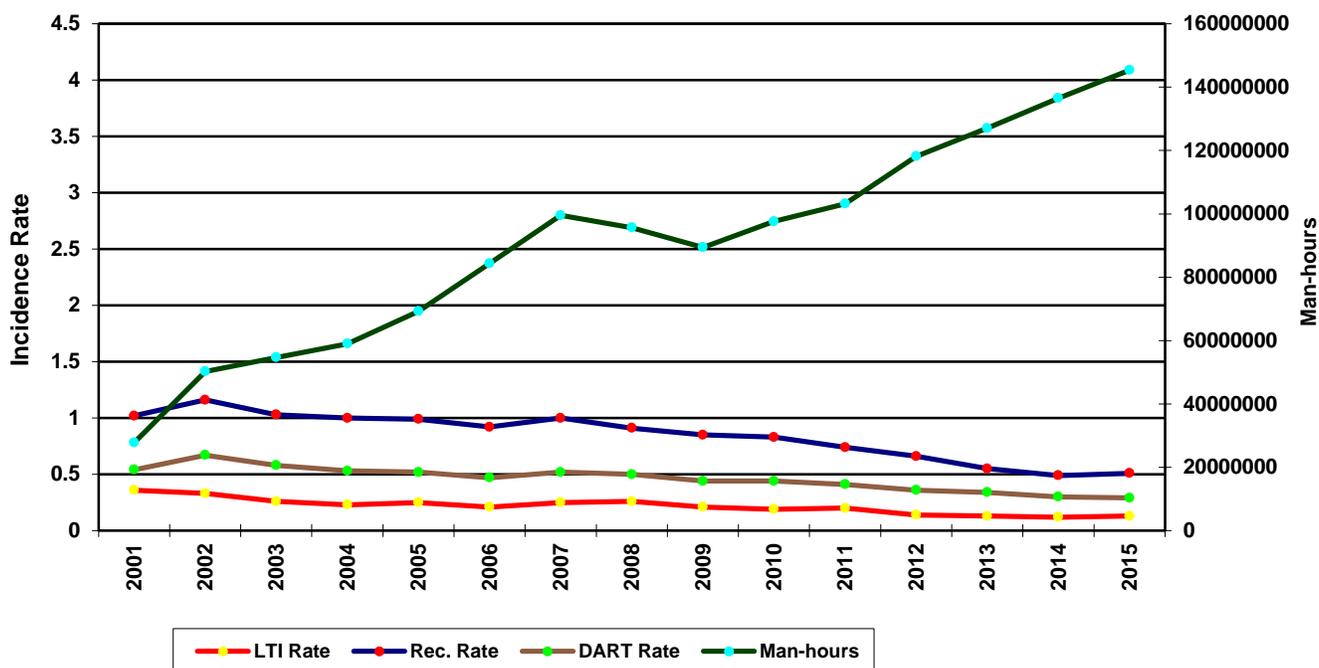
IADC 2015 Middle East Totals (Table 10)

	LAND	WATER	COMBINED
TOTAL MANHOURS	103,466,893	41,917,040	145,383,933
TOTAL MEDICAL TREATMENT INCIDENTS	144	18	162
TOTAL RESTRICTED WORK INCIDENTS	93	27	120
TOTAL LOST TIME INCIDENTS	69	20	89
TOTAL FATALITIES	2	0	2
TOTAL RECORDABLES	308	65	373
MTO INCIDENCE RATE	0.28	0.09	0.22
RWC INCIDENCE RATE	0.18	0.13	0.17
LTI INCIDENCE RATE	0.14	0.10	0.13
LTI FREQUENCY RATE	0.69	0.48	0.63
DART INCIDENCE RATE	0.32	0.22	0.29
DART FREQUENCY RATE	1.59	1.12	1.45
RECORDABLE INCIDENCE RATE	0.60	0.31	0.51
RECORDABLE FREQUENCY RATE	2.98	1.55	2.57

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 – 23 Water – 19

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



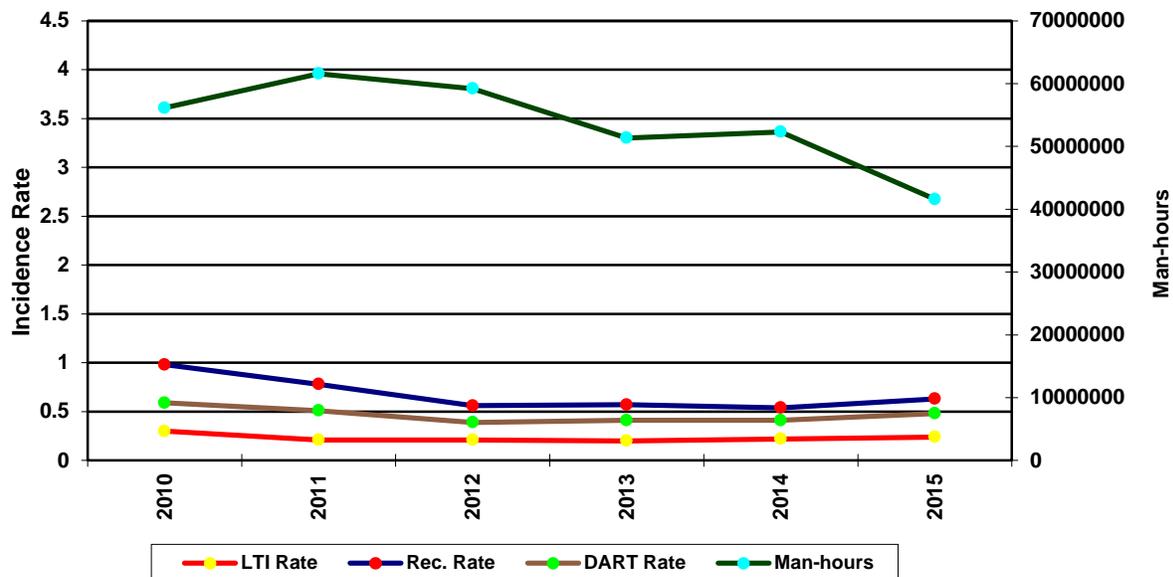
IADC 2015 South American Totals (Table 11)

	LAND	WATER	COMBINED
TOTAL MANHOURS	22,377,092	19,218,896	41,595,988
TOTAL MEDICAL TREATMENT INCIDENTS	20	12	32
TOTAL RESTRICTED WORK INCIDENTS	33	17	50
TOTAL LOST TIME INCIDENTS	28	21	49
TOTAL FATALITIES	0	0	0
TOTAL RECORDABLES	81	50	131
MTO INCIDENCE RATE	0.18	0.12	0.15
RWC INCIDENCE RATE	0.29	0.18	0.24
LTI INCIDENCE RATE	0.25	0.22	0.24
LTI FREQUENCY RATE	1.25	1.09	1.18
DART INCIDENCE RATE	0.55	0.40	0.48
DART FREQUENCY RATE	2.73	1.98	2.38
RECORDABLE INCIDENCE RATE	0.72	0.52	0.63
RECORDABLE FREQUENCY RATE	3.62	2.60	3.15

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 – 8 Water – 13

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



IADC 2015 US Totals (Table 12)

	LAND	WATER	COMBINED
TOTAL MANHOURS	58,055,785	37,890,556	95,946,341
TOTAL MEDICAL TREATMENT INCIDENTS	146	40	186
TOTAL RESTRICTED WORK INCIDENTS	118	44	162
TOTAL LOST TIME INCIDENTS	90	22	112
TOTAL FATALITIES	0	1	1
TOTAL RECORDABLES	354	107	461
MTO INCIDENCE RATE	0.50	0.21	0.39
RWC INCIDENCE RATE	0.41	0.23	0.34
LTI INCIDENCE RATE	0.31	0.12	0.24
LTI FREQUENCY RATE	1.55	0.61	1.18
DART INCIDENCE RATE	0.72	0.35	0.57
DART FREQUENCY RATE	3.58	1.77	2.87
RECORDABLE INCIDENCE RATE	1.22	0.56	0.96
RECORDABLE FREQUENCY RATE	6.10	2.82	4.80

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 – 32; Water – 16

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

