

# 2013



## Summary of Occupational Incidents (Asia Pacific Land Totals)

Issued 20 May 2014



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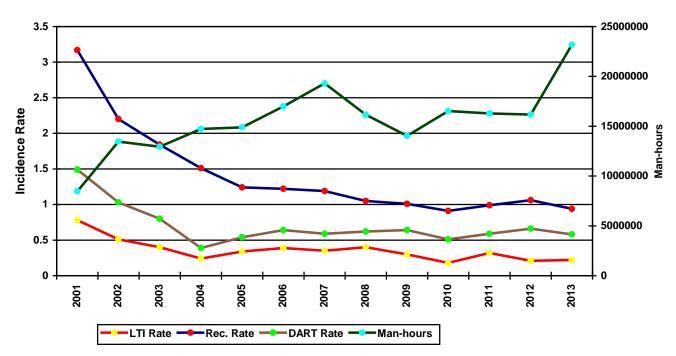
### IADC 2013 Asia Pacific Land Totals (Table 1)

	<u>Total</u>
Total Man-hours Total Medical Treatment Incidents	23,172,538 42
Total Restricted Work Incidents	42
Total Lost Time Incidents	22
Total Fatalities	3
Total Recordables	109
MTO Incidence Rate	0.36
RWC Incidence Rate	0.36
LTI Incidence Rate	0.22
LTI Frequency Rate	1.08
DART Incidence Rate	0.58
DART Frequency Rate	2.89
Recordable Incidence Rate	0.94
Recordable Frequency Rate	4.70

#### Companies Reporting: Land – 16

Medical Treatment Incidence Rate = MTOSX 200,000 Restricted Work Incidence Rate = RWCs X 200,000 Lost Time Incidence Rate = LTIs + FTLs X 200,000 DART Incidence Rate = LTIs + RWC X 200,000 Recordable Incidence Rate = RCRD X 200,000

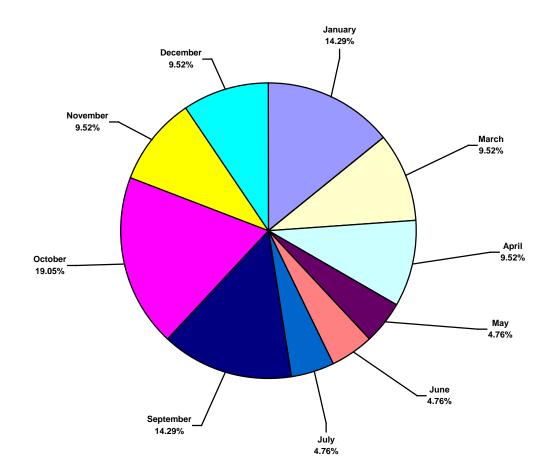
Lost Time Frequency Rate = LTIs +FTLs X 1,000,000 DART Frequency Rate = LTIs + RWC X 1,000,000 Recordable Frequency Rate = RCRD X 1,000,000



#### Asia Pacific Land Total Incidence Rates vs Man-hours (Figure 1)



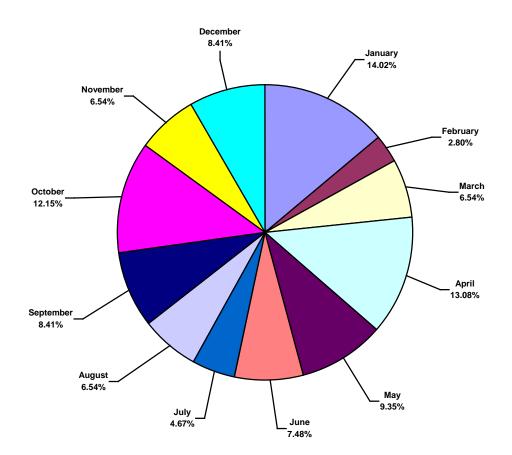
#### IADC 2013 Asia Pacific Land Charts Asia Pacific Land Total Lost Time Incidents by Month (Chart 1) Based on 21 Incidents



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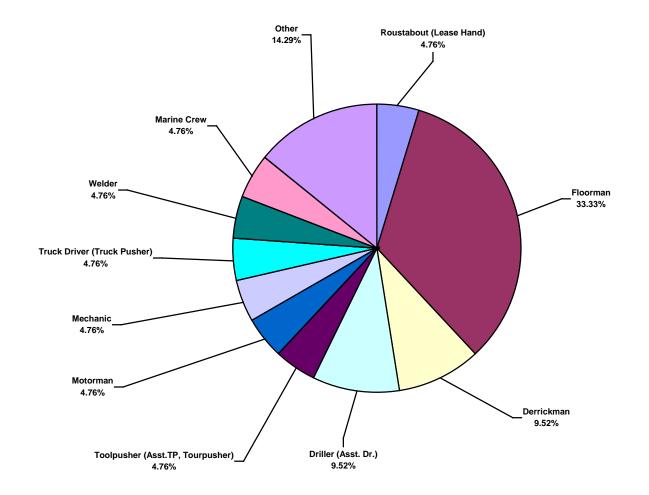


#### Asia Pacific Land Total Recordable Incidents by Month (Chart 2) Based on 107 Incidents



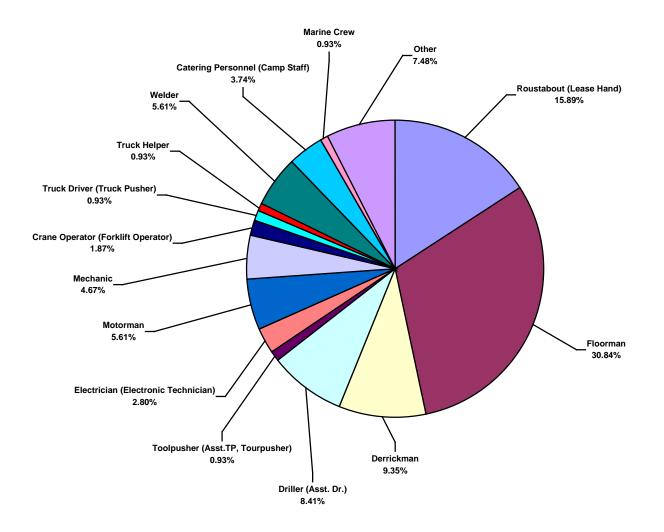


#### Asia Pacific Land Total Lost Time Incidents by Occupation (Chart 3) Based on 21 Incidents



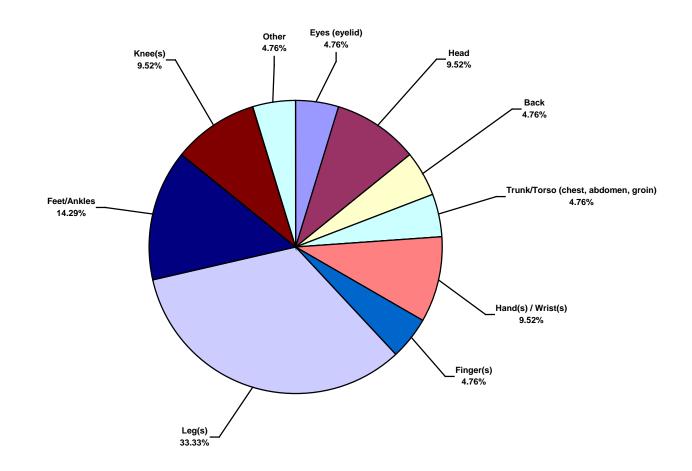


#### Asia Pacific Land Total Recordable Incidents by Occupation (Chart 4) Based on 107 Incidents



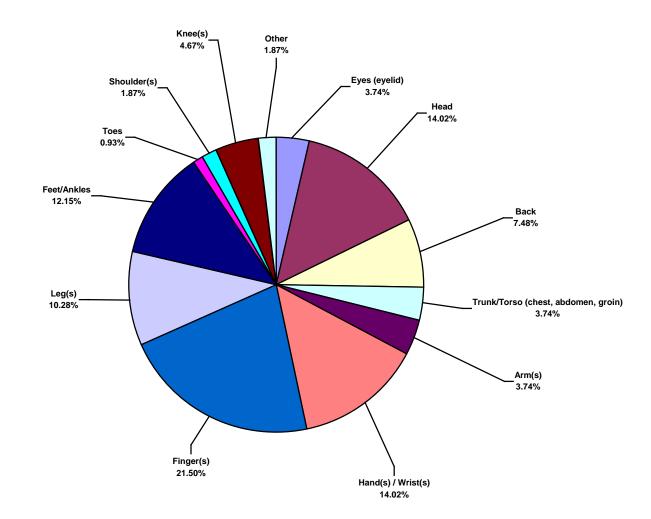


#### Asia Pacific Land Total Lost Time Incidents by Body Part (Chart 5) Based on 21 Incidents



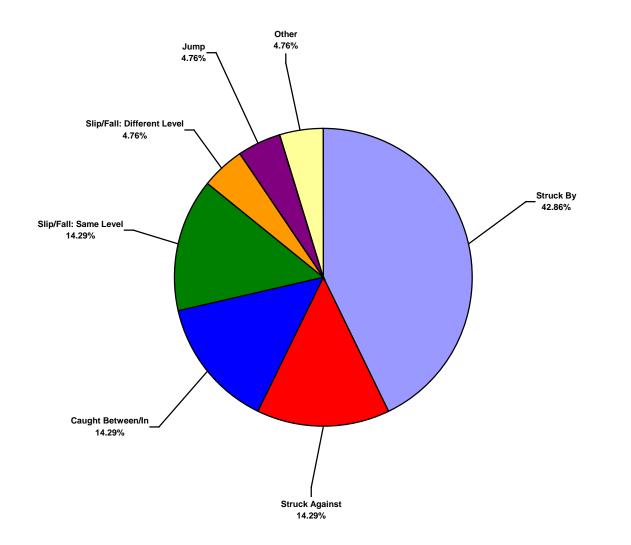


#### Asia Pacific Land Total Recordable Incidents by Body Part (Chart 6) Based on 107 Incidents



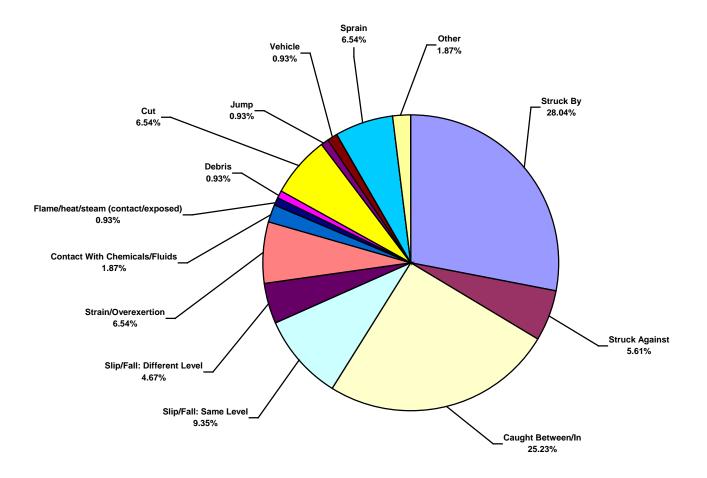


#### Asia Pacific Land Total Lost Time Incidents by Incident Type (Chart 7) Based on 21 Incidents



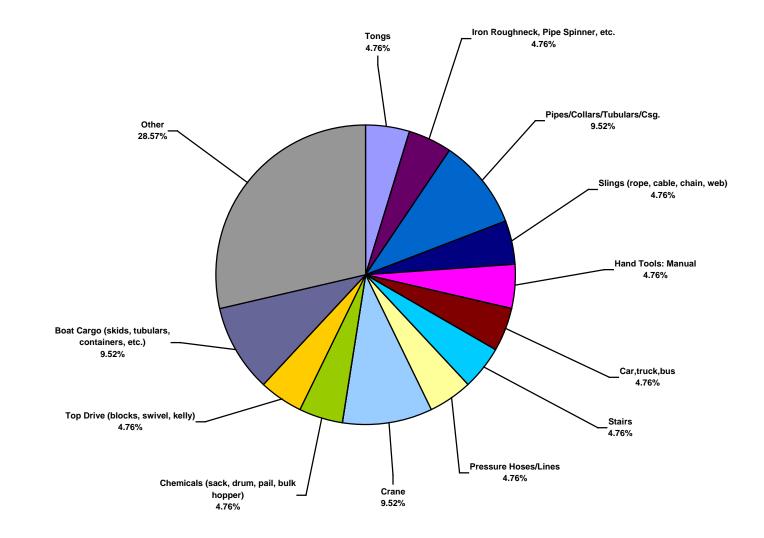


#### Asia Pacific Land Total Recordable Incidents by Incident Type (Chart 8) Based on 107 Incidents



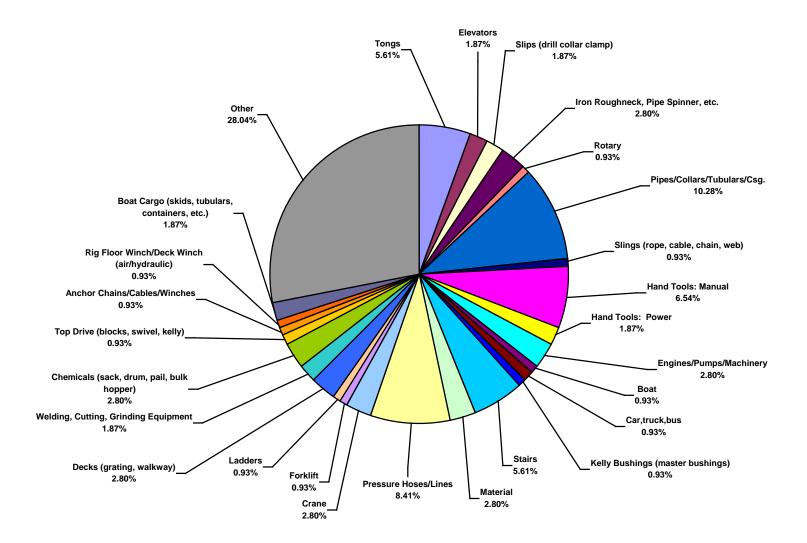


#### Asia Pacific Land Total Lost Time Incidents by Equipment (Chart 9) Based on 21 Incidents





#### Asia Pacific Land Total Recordable Incidents by Equipment (Chart 10) Based on 107 Incidents





#### Other **Routine Drilling Operations** 9.52% 14.29% Training 4.76% Running Casing/Tubing (rig up/down csg. tools) 4.76% Walking 9.52% Material Handling: Manual 9.52% Mud Mixing/Pumping 4.76% Material Handling: Crane/Cherry Picker **Rig/Equipment Repairs or** 9.52% Maintenance 14.29% Well Control (BOP) Stack (well Rigging Up/Down (rig move preparation, rig move) head/tree) Install/Maintenance-4.76% 14.29%

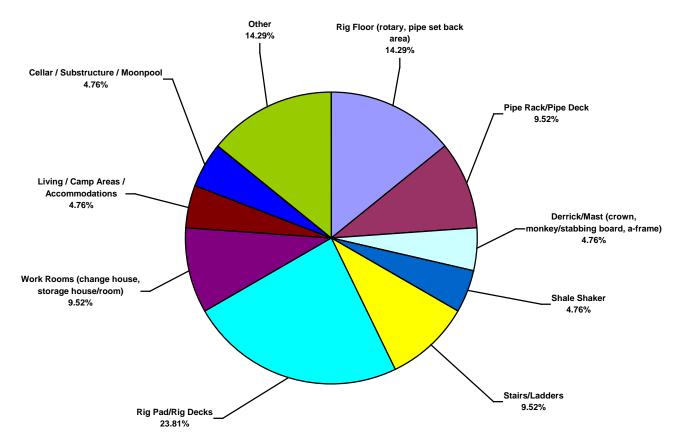
#### Asia Pacific Land Total Lost Time Incidents by Operation (Chart 11) Based on 21 Incidents



#### Tripping in/out (makeup/brakeout BHA, test tools, etc.) 5.61% Other Making Connection 11.21% 6.54% Travel/Transportation 0.93% Walking Training **Routine Drilling Operations** 0.93% 6.54% 14.02% Cementing 0.93% Mud Mixing/Pumping Running Casing/Tubing (rig up/down 6.54% csg. tools) 2.80% Laying Down/Picking up Pipe/Tubulars **Rig/Equipment Repairs or** Maintenance 1.87% 11.21% Material Handling: Manual 10.28% Well Control (BOP) Stack (well Material Handling Crane/Cherry head/tree) Install/Maintenance Picker 2.80% 2.80% Rigging Up/Down (rig move preparation, rig move) Material Handling Rig Floor Winch Material Handling Forklift 12.15% 0.93% 1.87%

#### Asia Pacific Land Total Recordable Incidents by Operation (Chart 12) Based on 107 Incidents

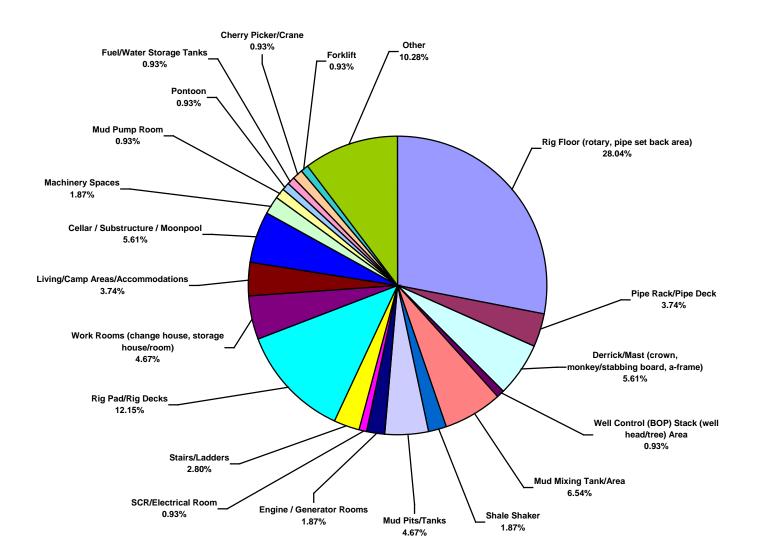




#### Asia Pacific Land Total Lost Time Incidents by Location (Chart 13) Based on 21 Incidents

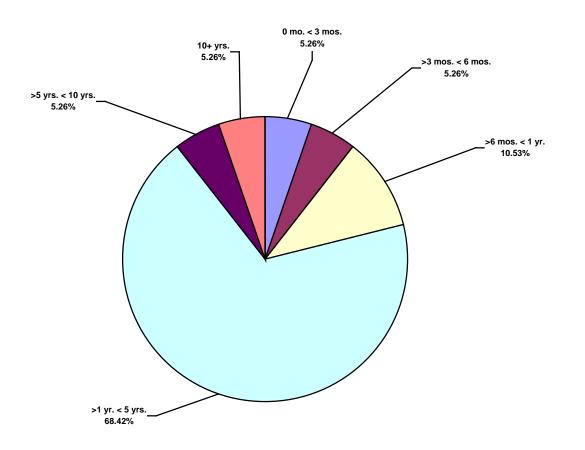


#### Asia Pacific Land Total Recordable Incidents by Location (Chart 14) Based on 107 Incidents



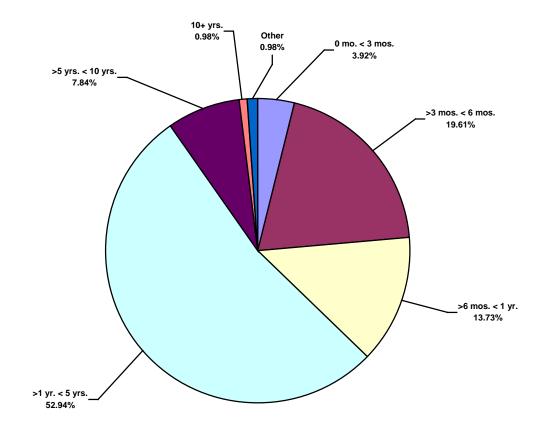


#### Asia Pacific Land Total Lost Time Incidents by Time in Service (Chart 15) Based on 19 Incidents



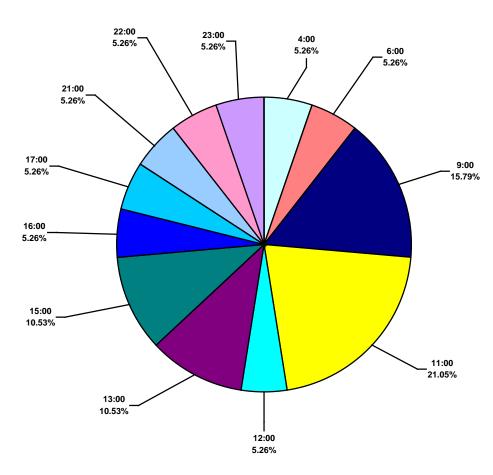


#### Asia Pacific Land Total Recordable Incidents by Time in Service (Chart 16) Based on 102 Incidents





#### Asia Pacific Land Total Lost Time Incidents by Time of Day (Chart 17) Based on 19 Incidents





#### 2:00 1.94% 1:00 4:00 0.97% 23:00 5:00 3.88% 1.94% 3.88% 22:00 2.91% 6:00 2.91% 21:00 4.85% 7:00 3.88% 20:00 5.83% 8:00 3.88% 19:00 2.91% 17:00 6.80% 9:00 8.74% 10:00 16:00 1.94% 5.83% 11:00 9.71% 15:00 8.74% 12:00 5.83% 14:00 4.85% 13:00 7.77%

#### Asia Pacific Land Total Recordable Incidents by Time of Day (Chart 18) Based on 103 Incidents