IADC ISP PROGRAM
2016
Summary of Occupational Incidents
(Africa Land Totals)

Issued 1 July 2017
Table of Contents

(Table of Contents is Hyperlinked, Just click on Topic & go)

IADC 2016 AFRICA LAND TOTALS (TABLE 1) ................................................................. 1
   Africa Land Total Incidence Rates vs Man-hours (Figure 1) ........................................ 1
IADC 2016 AFRICA LAND CHARTS .................................................................................... 2
   Africa Land Total Lost Time Incidents by Month (Chart 1) ........................................... 2
   Africa Land Total Recordable Incidents by Month (Chart 2) ......................................... 3
   Africa Land Total Lost Time Incidents by Occupation (Chart 3) .................................... 4
   Africa Land Total Recordable Incidents by Occupation (Chart 4) ................................. 5
   Africa Land Total Lost Time Incidents by Body Part (Chart 5) ....................................... 6
   Africa Land Total Recordable Incidents by Body Part (Chart 6) ...................................... 7
   Africa Land Total Lost Time Incidents by Incident Type (Chart 7) ............................... 8
   Africa Land Total Recordable Incidents by Incident Type (Chart 8) .............................. 9
   Africa Land Total Lost Time Incidents by Equipment (Chart 9) ..................................... 10
   Africa Land Total Recordable Incidents by Equipment (Chart 10) ............................... 11
   Africa Land Total Lost Time Incidents by Operation (Chart 11) ..................................... 12
   Africa Land Total Recordable Incidents by Operation (Chart 12) ................................. 13
   Africa Land Total Lost Time Incidents by Location (Chart 13) ....................................... 14
   Africa Land Total Recordable Incidents by Location (Chart 14) ..................................... 15
   Africa Land Total Lost Time Incidents by Time in Service (Chart 15) ......................... 16
   Africa Land Total Recordable Incidents by Time in Service (Chart 16) ....................... 17
   Africa Land Total Lost Time Incidents by Time of Day (Chart 17) ............................... 18
   Africa Land Total Recordable Incidents by Time of Day (Chart 18) ............................. 19
   Africa Land Total Lost Time Incidents by Age (Chart 19) ............................................ 20
   Africa Land Total Recordable Incidents by Age (Chart 20) .......................................... 21
IADC 2016 Africa Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Category</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>17,869,835</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>17</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>8</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>10</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>35</td>
</tr>
</tbody>
</table>

MTO Incidence Rate 0.19
RWC Incidence Rate 0.09
LTI Incidence Rate 0.11
LTI Frequency Rate 0.56
DART Incidence Rate 0.20
DART Frequency Rate 1.01
Recordable Incidence Rate 0.39
Recordable Frequency Rate 1.96

Companies Reporting: Land – 11
Medical Treatment Incidence Rate = MTOs X 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

Africa Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2016 Africa Land Charts
Africa Land Total Lost Time Incidents by Month (Chart 1)
Based on 10 Incidents

- December: 10.00%
- January: 20.00%
- October: 20.00%
- March: 20.00%
- May: 10.00%
- July: 10.00%
- August: 10.00%
Africa Land Total Recordable Incidents by Month (Chart 2)
Based on 35 Incidents

- October: 17.14%
- November: 5.71%
- December: 2.86%
- January: 11.43%
- February: 11.43%
- March: 8.57%
- April: 5.71%
- May: 11.43%
- June: 8.57%
- July: 5.71%
- August: 8.57%
- September: 2.86%
Africa Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 10 Incidents

- Roustabout (Lease Hand): 10.00%
- Floorman: 40.00%
- Derrickman: 10.00%
- Electrician: 10.00%
- Mechanic: 20.00%
- Welder: 10.00%

The chart shows the distribution of lost time incidents by occupation, with Floorman having the highest rate at 40.00%.
Africa Land Total Recordable Incidents by Occupation (Chart 4)
Based on 35 Incidents

- Catering / Camp Personnel: 2.86%
- Welder: 14.29%
- Rig Helper: 2.86%
- Roustabout (Lease Hand): 17.14%
- Mechanic: 20.00%
- Floorman: 22.86%
- Electrician: 2.86%
- Driller (Asst. Dr.): 8.57%
- Derrickman: 8.57%
- Catering / Camp Personnel: 2.86%
Africa Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 10 Incidents

- Head: 10.00%
- Trunk/Torso (chest, abdomen, groin): 10.00%
- Hand(s) / Wrist(s): 20.00%
- Finger(s): 30.00%
- Feet/Ankles: 20.00%
- Shoulder(s): 10.00%
Africa Land Total Recordable Incidents by Body Part (Chart 6)
Based on 35 Incidents

- Finger(s): 25.71%
- Leg(s): 14.29%
- Feet/Ankles: 11.43%
- Shoulder(s): 2.86%
- Back: 2.86%
- Lungs/Respiratory: 2.86%
- Eyes (eyelid): 2.86%
- Head: 11.43%
- Trunk/Torso (chest, abdomen, groin): 5.71%
- Hand(s) / Wrist(s): 8.57%
- Arm(s): 2.86%
- Knee(s): 8.57%
- Trunk/Torso (chest, abdomen, groin): 5.71%
Africa Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 10 Incidents

- Struck By: 50.00%
- Caught Between/In: 30.00%
- Slip/Fall: Same Level: 10.00%
- Cut: 10.00%
- Other: 10.00%
Africa Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 35 Incidents

- Struck By: 34.29%
- Contact With Chemicals/Fluids: 2.86%
- Slip/Fall: Different Level: 11.43%
- Slip/Fall: Same Level: 2.86%
- Cut: 11.43%
- Flame/heat/steam (contact/exposed): 2.86%
- Caught Between/In: 25.71%
- Struck Against: 2.86%
- Chemical Inhalation: 2.86%
- Sprain: 2.86%
- Chemical Inhalation: 2.86%
Africa Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 10 Incidents

- Slips (drill collar clamp) 10.00%
- Top Drive (blocks, swivel, kelly) 10.00%
- Rotary 10.00%
- Pipes/Collars/Tubulars/Csg. 20.00%
- Slings (rope, cable, chain, web) 10.00%
- Engines/Pumps/Machinery 10.00%
- Pressure Hoses/Lines 10.00%
- Crane 10.00%
- Forklift 10.00%
- Pipes/Collars/Tubulars/Csg. 20.00%

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Africa Land Total Recordable Incidents by Equipment (Chart 10)
Based on 35 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 2.86%
- Anchor Chains/Cables/Winches 2.86%
- Top Drive (blocks, swivel, kelly) 2.86%
- Welding, Cutting, Grinding Equipment 2.86%
- Decks (grating, walkway) 2.86%
- Ladders 5.71%
- Welding, Cutting, Grinding Equipment 2.86%
- Engines/Pumps/Machinery 8.57%
- Pressure Hoses/Lines 5.71%
- Well Control (BOP) Stack (well head, tree) 2.86%
- Material 8.57%
- Hand Tools: Power 5.71%
- Hand Tools: Manual 5.71%
- Slings (rope, cable, chain, web) 2.86%
- Slips (drill collar clamp) 2.86%
- Elevators 2.86%
- Crane 2.86%
- Forklift 5.71%
- Pipes/Collars/Tubulars/Csg. 8.57%
- Rotary 5.71%
Africa Land Total Lost Time Incidents by Operation (Chart 11)
Based on 10 Incidents

- Rig/Equipment Repairs or Maintenance: 10.00%
- Rigging Up/Down (rig move preparation, rig move): 20.00%
- Material Handling: Forklift: 20.00%
- Material Handling: Manual: 10.00%
- Laying Down/Picking up Pipe/Tubulars: 10.00%
- Running Casing/Tubing (rig up/down csg. tools): 10.00%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 20.00%
Africa Land Total Recordable Incidents by Operation (Chart 12)
Based on 35 Incidents

- Rigging Up/Down (rig move preparation, rig move) 20.00%
- Material Handling Forklift 8.57%
- Routine Drilling Ops 5.71%
- Running Casing/Tubing (rig up/down csg. tools) 5.71%
- Laying Down/Picking up Pipe/Tubulars 2.86%
- Special Operations (wireline, perforating, etc.) 2.86%
- Walking 2.86%
- Tripping in/out 17.14%
- Material Handling Manual 8.57%
- Rig/Equipment Repairs or Maintenance 22.86%
- Cementing 2.86%
- Tripping in/out 17.14%
Africa Land Total Lost Time Incidents by Location (Chart 13)
Based on 10 Incidents
Africa Land Total Recordable Incidents by Location (Chart 14)
Based on 35 Incidents
Africa Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 10 Incidents

- >5 yrs. < 10 yrs.: 40.00%
- >1 yr. < 5 yrs.: 30.00%
- 10+ yrs.: 30.00%
Africa Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 35 Incidents

- >5 yrs. < 10 yrs. 34.29%
- >1 yr. < 5 yrs. 31.43%
- >6 mos. < 1 yr. 5.71%
- >3 mos. < 6 mos. 2.86%
- 10+ yrs. 25.71%
Africa Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 10 Incidents
Africa Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 35 Incidents

- 23:00: 8.57%
- 22:00: 8.57%
- 21:00: 8.57%
- 20:00: 2.86%
- 19:00: 11.43%
- 18:00: 2.86%
- 17:00: 2.86%
- 16:00: 5.71%
- 15:00: 8.57%
- 14:00: 2.86%
- 13:00: 5.71%
- 12:00: 8.57%
- 11:00: 2.86%
- 10:00: 5.71%
- 9:00: 5.71%
- 8:00: 5.71%
- 7:00: 2.86%
- 6:00: 2.86%
- 5:00: 2.86%
- 4:00: 2.86%
- 3:00: 2.86%
- 2:00: 2.86%
- 1:00: 5.71%
- 0:00: 2.86%
- 14:00: 2.86%
- 13:00: 5.71%
Africa Land Total Lost Time Incidents by Age (Chart 19)
Based on 10 Incidents

- 26 - 35: 50.00%
- 36 - 45: 30.00%
- 56 - 65: 10.00%
- 18 - 25: 10.00%
Africa Land Total Recordable Incidents by Age (Chart 20)
Based on 35 Incidents

- 26 - 35: 51.43%
- 36 - 45: 22.86%
- 46 - 55: 8.57%
- 56 - 65: 8.57%
- 18 - 25: 8.57%