IADC ISP PROGRAM

2014

Summary of Occupational Incidents
(Africa Land Totals)

Issued 15 June 2015
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IADC 2014 AFRICA LAND PARTICIPANT DETAIL BY CATEGORY .......... ERROR! BOOKMARK NOT DEFINED.
IADC 2014 Africa Land Totals (Table 1)

Total Man-hours 42,085,855
Total Medical Treatment Incidents 38
Total Restricted Work Incidents 113
Total Lost Time Incidents 66
Total Fatalities 1
Total Recordables 218

MTO Incidence Rate 0.18
RWC Incidence Rate 0.54
LTI Incidence Rate 0.32
LTI Frequency Rate 1.59
DART Incidence Rate 0.86
DART Frequency Rate 4.28
Recordable Incidence Rate 1.04
Recordable Frequency Rate 5.18

Companies Reporting: Land – 14

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

Africa Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2014 Africa Land Charts
Africa Land Total Lost Time Incidents by Month (Chart 1)
Based on 66 Incidents
Africa Land Total Recordable Incidents by Month (Chart 2)
Based on 218 Incidents

- December: 10.55%
- November: 5.96%
- October: 9.63%
- September: 8.26%
- August: 8.26%
- July: 6.88%
- June: 10.55%
- May: 11.01%
- April: 8.26%
- March: 6.88%
- February: 8.26%
- January: 5.50%
Africa Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 66 Incidents

- Roustabout (Lease Hand): 21.21%
- Floorman: 30.30%
- Derrickman: 16.67%
- Driller (Asst. Dr.): 10.61%
- Toolpusher / Tourpusher: 4.55%
- Electrician: 1.52%
- Crane / Forklift Operator: 1.52%
- Mechanic: 6.06%
- Welder: 4.55%
- Other: 1.52%
- Truck Driver / Pusher: 1.52%
- Mechanic: 6.06%
- Electrician: 1.52%
- Toolpusher / Tourpusher: 4.55%
- Driller (Asst. Dr.): 10.61%
- Derrickman: 16.67%
- Roustabout (Lease Hand): 21.21%
- Floorman: 30.30%
Africa Land Total Recordable Incidents by Occupation (Chart 4)
Based on 218 Incidents

- Floorman: 32.11%
- Driller (Asst. Dr.): 10.55%
- Floorman: 15.14%
- Derrickman: 15.14%
- Toolpusher / Tourpusher: 4.13%
- Electrician: 3.21%
- Motorman: 0.46%
- Mechanic: 5.96%
- Crane / Forklift Operator: 0.92%
- Truck Driver / Pusher: 0.92%
- Catering / Camp Personnel: 0.46%
- Other: 1.38%
- Roustabout (Lease Hand): 21.10%
- Welder: 2.75%
- Maintenance Sup.: 0.92%

Based on 218 Incidents
Africa Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 66 Incidents

- Eyes (eyelid) 1.52%
- Head 7.58%
- Back 9.09%
- Trunk/Torso (chest, abdomen, groin) 4.55%
- Arm(s) 4.55%
- Hand(s) / Wrist(s) 12.12%
- Finger(s) 28.79%
- Leg(s) 4.55%
- Feet/Ankles 12.12%
- Shoulder(s) 6.06%
- Neck 1.52%
- Other 4.55%
- Knee(s) 3.03%

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Africa Land Total Recordable Incidents by Body Part (Chart 6)
Based on 218 Incidents

- Finger(s) 25.69%
- Hand(s) / Wrist(s) 8.26%
- Arm(s) 3.21%
- Back 11.47%
- Trunk/Torso (chest, abdomen, groin) 4.13%
- Feet/Ankles 13.76%
- Leg(s) 7.34%
- Shoulder(s) 5.50%
- Elbow(s) 0.92%
- Knee(s) 3.21%
- Digestive/Internal 0.46%
- Other 2.75%
- Eyes (eyelid) 3.21%
- Head 9.17%
- Toes 0.46%
- Neck 0.46%
Africa Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 66 Incidents

- Struck By: 25.76%
- Caught Between/In: 22.73%
- Struck Against: 3.03%
- Sprain: 1.52%
- Other: 7.58%
- Cut: 1.52%
- Contact With Chemicals/Fluids: 1.52%
- Slip/Fall: Different Level: 16.67%
- Slip/Fall: Same Level: 7.58%
- Strain/Overexertion: 9.09%
- Vehicle: 3.03%
- Slip/Fall: Different Level: 16.67%
- Slip/Fall: Same Level: 7.58%
- Strain/Overexertion: 9.09%
- Vehicle: 3.03%
- Cut: 1.52%
- Contact With Chemicals/Fluids: 1.52%
- Sprain: 1.52%
- Other: 7.58%

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Africa Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 218 Incidents

- Struck By: 34.86%
- Struck Against: 4.59%
- Caught Between/In: 21.10%
- Slip/Fall: Different Level: 11.93%
- Slip/Fall: Same Level: 6.88%
- Strain/Overexertion: 5.50%
- Chemical Inhalation: 0.46%
- Flame/heat/steam (contact/exposed): 0.92%
- Contact With Chemicals/Fluids: 1.38%
- Cut: 1.83%
- Vehicle: 1.83%
- Sprain: 1.38%
- Other: 6.88%
- Debris: 0.46%
- Cut: 1.83%
- Vehicle: 1.83%
- Sprain: 1.38%
- Other: 6.88%
- Debris: 0.46%
Africa Land Total Lost Time Incidents by Equipment (Chart 9)

Based on 66 Incidents

- Anchor Chains/Cables/Winches: 1.52%
- Tongs: 6.06%
- Other: 18.18%
- Elevators: 3.03%
- Slips (drill collar clamp): 1.52%
- Iron Roughneck, Pipe Spinner, etc.: 4.55%
- Rotary: 3.03%
- Pipes/Collars/Tubulars/Csg: 18.18%
- Slings (rope, cable, chain, web): 4.55%
- Hand Tools: Manual: 10.61%
- Engines/Pumps/Machinery: 6.06%
- Well Control (BOP) Stack (well head, tree): 3.03%
- Car, truck, bus: 3.03%
- Stairs: 7.58%
- Decks (grating, walkway): 4.55%
- Forklift: 1.52%
- Chemicals (sack, drum, pail, bulk hopper): 1.52%
- Top Drive (blocks, swivel, kelly): 1.52%
- Tongs: 6.06%
- Elevators: 3.03%
- Iron Roughneck, Pipe Spinner, etc.: 4.55%
- Rotary: 3.03%
- Pipes/Collars/Tubulars/Csg: 18.18%
- Slings (rope, cable, chain, web): 4.55%
- Hand Tools: Manual: 10.61%
- Engines/Pumps/Machinery: 6.06%
- Well Control (BOP) Stack (well head, tree): 3.03%
- Car, truck, bus: 3.03%
- Stairs: 7.58%
- Decks (grating, walkway): 4.55%
- Forklift: 1.52%
- Chemicals (sack, drum, pail, bulk hopper): 1.52%
- Top Drive (blocks, swivel, kelly): 1.52%
- Tongs: 6.06%
- Elevators: 3.03%
- Iron Roughneck, Pipe Spinner, etc.: 4.55%
- Rotary: 3.03%
- Pipes/Collars/Tubulars/Csg: 18.18%
- Slings (rope, cable, chain, web): 4.55%
- Hand Tools: Manual: 10.61%
- Engines/Pumps/Machinery: 6.06%
- Well Control (BOP) Stack (well head, tree): 3.03%
- Car, truck, bus: 3.03%
- Stairs: 7.58%
- Decks (grating, walkway): 4.55%
- Forklift: 1.52%
- Chemicals (sack, drum, pail, bulk hopper): 1.52%
- Top Drive (blocks, swivel, kelly): 1.52%
- Tongs: 6.06%
- Elevators: 3.03%
- Iron Roughneck, Pipe Spinner, etc.: 4.55%
- Rotary: 3.03%
- Pipes/Collars/Tubulars/Csg: 18.18%
- Slings (rope, cable, chain, web): 4.55%
- Hand Tools: Manual: 10.61%
- Engines/Pumps/Machinery: 6.06%
- Well Control (BOP) Stack (well head, tree): 3.03%
- Car, truck, bus: 3.03%
- Stairs: 7.58%
- Decks (grating, walkway): 4.55%
- Forklift: 1.52%
- Chemicals (sack, drum, pail, bulk hopper): 1.52%
- Top Drive (blocks, swivel, kelly): 1.52%
- Tongs: 6.06%
- Elevators: 3.03%
- Iron Roughneck, Pipe Spinner, etc.: 4.55%
- Rotary: 3.03%
- Pipes/Collars/Tubulars/Csg: 18.18%
- Slings (rope, cable, chain, web): 4.55%
- Hand Tools: Manual: 10.61%
- Engines/Pumps/Machinery: 6.06%
- Well Contro
Africa Land Total Recordable Incidents by Equipment (Chart 10)
Based on 218 Incidents

- Anchor Chains/Cables/Winches: 0.46%
- Other: 26.61%
- Decks (grating, walkway): 1.38%
- Welding, Cutting, Grinding Equipment: 1.83%
- Chemicals (sack, drum, pail, bulk hopper): 0.92%
- Top Drive (blocks, swivel, kelly): 0.92%
- Pressure Hoses/Lines: 2.29%
- Elevators: 1.83%
- Stairs: 4.59%
- Well Control (BOP) Stack (well head, tree): 2.29%
- Tongs: 9.17%
- Cathead/Drawworks: 0.46%
- Iron Roughneck, Pipe Spinner, etc.: 2.75%
- Slings (rope, cable, chain, web): 5.50%
- Engines/Pumps/Machinery: 6.88%
- Hand Tools: Manual: 5.96%
- Car, truck, bus: 3.21%
- Kelly Bushings (master bushings): 0.46%
- Slips (drill collar clamp): 1.83%
- Material: 0.92%
- Elevators: 1.83%

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Africa Land Total Lost Time Incidents by Operation (Chart 11)
Based on 66 Incidents

- **Travel/Transport**: 3.03%
- **Other**: 12.12%
- **Tripping in/out (makeup/brakeout BHA, test tools, etc.)**: 18.18%
- **Walking**: 6.06%
- **Mud Mixing/Pumping**: 1.52%
- **Cementing**: 1.52%
- **Well Testing**: 3.03%
- **Well Control (BOP) Stack (well head/tree) Install/Maintenance**: 3.03%
- **Routine Drilling Operations**: 3.03%
- **Making Connection**: 7.58%
- **Rig/Equipment Repairs or Maintenance**: 4.55%
- **Rigging Up/Down (rig move preparation, rig move)**: 13.64%
- **Material Handling: Forklift**: 4.55%
- **Material Handling: Crane/Cherry Picker**: 3.03%
- **Material Handling: Manual**: 7.58%
- **Laying Down/Picking up Pipe/Tubulars**: 4.55%
- **Running Casing/Tubing (rig up/down csg. tools)**: 3.03%

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Africa Land Total Recordable Incidents by Operation (Chart 12)
Based on 218 Incidents

- Tripping in/out: 15.14%
- Making Connection: 7.34%
- Routine Drilling Ops: 4.13%
- Running Casing/Tubing (rig up/down csg. tools): 4.13%
- Laying Down/Picking up Pipe/Tubulars: 4.59%
- Material Handling Manual: 5.50%
- Material Handling Crane/Cherry Picker: 1.83%
- Rigging Up/Down (rig move preparation, rig move): 13.76%
- Material Handling Forklift: 4.59%
- Rigging Up/Down (rig move): 3.67%
- Material Handling Manual: 5.50%
- Rig/Equipment Repairs or Maintenance: 10.55%
- Mud Mixing/Pumping: 1.83%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 3.67%
- Making Connection: 7.34%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 3.67%
- Walking: 3.67%
- Cementing: 0.46%
- Mud Mixing/Pumping: 1.83%
- Well Testing: 1.38%
- Other: 15.60%
- Travel/Transportation: 1.83%
Africa Land Total Lost Time Incidents by Location (Chart 13)
Based on 66 Incidents

- Rig Floor (rotary, pipe set back area): 30.30%
- Cellar/Substructure/Moonpool: 9.09%
- Rig Pad/Rig Decks (rig/well site/location, yard): 18.18%
- Living/Camp Areas/Accommodations: 6.06%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 10.61%
- Pipe Rack/Pipe Deck: 6.06%
- Stairs/Ladders: 4.55%
- Engine Room/Generator Room: 3.03%
- Mud Pits/Tanks: 3.03%
- Shale Shaker: 3.03%
- Mud Mixing Tank/Area: 1.52%
- Well Control (BOP) Stack (well head/tree) Area: 3.03%
Africa Land Total Recordable Incidents by Location (Chart 14)
Based on 218 Incidents

- Rig Floor (rotary, pipe set back area): 33.94%
- Catwalk/V-door: 1.03%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 5.96%
- Well Control (BOP) Stack (well head/tree) Area: 2.75%
- Mud Mixing Tank/Area: 2.75%
- Truck, Boat, Car, Bus, Vehicle: 3.21%
- Cellar/Substructure/Moonpool: 6.42%
- Living/Camp Areas/Accommodations: 5.05%
- Rig Pad/Rig Decks (rig/well site/location, yard): 10.55%
- Stairs/Ladders: 2.29%
- SCR/Electrical Room: 0.92%
- Mud Pits/Tanks: 3.21%
- Shale Shaker: 0.46%
- Engine Room/Generator Room: 3.21%
- Mud Pump Room: 4.59%
- Fuel/Water Storage Tanks: 0.46%
- Forklift: 0.92%
- Other: 7.80%
Africa Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 66 Incidents

- 0 mo. < 3 mos.: 1.52%
- >3 mos. < 6 mos.: 6.06%
- >6 mos. < 1 yr.: 12.12%
- >1 yr. < 5 yrs.: 16.67%
- >5 yrs. < 10 yrs.: 46.97%
- 10+ yrs.: 16.67%
Africa Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 216 incidents

- >10 yrs.: 15.28%
- >5 yrs. < 10 yrs.: 44.91%
- >1 yr. < 5 yrs.: 18.98%
- >6 mos. < 1 yr.: 8.33%
- >3 mos. < 6 mos.: 7.87%
- >0 mos. < 3 mos.: 4.63%
Africa Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 66 Incidents
Africa Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 217 Incidents

14:00 13:00 22:00 24:00:00 1:00 2:00 3:00 4:00 5:00 6:00 7:00 8:00 9:00 10:00 11:00 12:00 13:00 14:00 15:00 16:00 17:00 18:00 19:00 20:00 21:00 22:00 23:00

- 14:00: 3.69%
- 13:00: 4.15%
- 22:00: 4.61%
- 24:00:00: 1.38%
- 1:00: 5.99%
- 2:00: 2.30%
- 3:00: 3.23%
- 4:00: 2.30%
- 5:00: 2.76%
- 6:00: 2.76%
- 7:00: 6.91%
- 8:00: 4.15%
- 9:00: 6.91%
- 10:00: 4.15%
- 11:00: 6.91%
- 12:00: 4.15%
- 13:00: 2.76%
- 14:00: 4.15%
- 15:00: 5.99%
- 16:00: 5.99%
- 17:00: 7.83%
- 18:00: 5.53%
- 19:00: 4.15%
- 20:00: 2.76%
- 21:00: 5.53%
- 22:00: 4.61%
- 23:00: 5.07%
Africa Land Total Lost Time Incidents by Age (Chart 19)
Based on 60 Incidents

- 26 - 35: 43.33%
- 36 - 45: 36.67%
- 46 - 55: 11.67%
- 56 - 65: 1.67%
- 18 - 25: 6.67%
Africa Land Total Recordable Incidents by Age (Chart 20)
Based on 202 Incidents

- 18 - 25: 7.92%
- 26 - 35: 53.47%
- 36 - 45: 29.70%
- 46 - 55: 6.44%
- 56 - 65: 2.48%