IADC

IADC
ISP PROGRAM

2014

Summary of Occupational Incidents
(European Land Totals)

Issued 15 June 2015
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### IADC 2014 European Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Man-hours</td>
<td>49,839,013</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>13</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>16</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>58</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>1</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>88</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Incidence Rate Type</th>
<th>Value</th>
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</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.05</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.06</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.24</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.18</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.30</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>1.50</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.35</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>1.77</td>
</tr>
</tbody>
</table>

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
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Incidence Rate = LTIs + RWC X 200,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Incidence Rate = RCRD X 200,000
Recordable Frequency Rate = RCRD X 1,000,000

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

![Graph showing incidence rates and man-hours for European land operations over years.]
European Land Total Lost Time Incidents by Month (Chart 1)

Based on 58 Incidents

- January 18.97%
- February 12.07%
- March 8.62%
- April 3.45%
- May 3.45%
- June 5.17%
- July 6.90%
- August 18.97%
- September 3.45%
- October 3.45%
- November 8.62%
- December 5.17%
European Land Total Recordable Incidents by Month (Chart 2)
Based on 88 Incidents

- January: 18.18%
- February: 7.95%
- March: 9.09%
- April: 5.68%
- May: 4.55%
- June: 5.68%
- July: 7.95%
- August: 14.77%
- September: 9.09%
- October: 4.55%
- November: 7.95%
- December: 4.55%
European Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 58 Incidents

- Driller (Asst. Dr.): 29.31%
- Roustabout (Lease Hand): 8.62%
- Floorman: 12.07%
- Derrickman: 8.62%
- Electrician (Electronic Technician): 3.45%
- Motorman: 3.45%
- Mechanic (Repair Technician): 1.72%
- Superintendent/other Supervisors: 1.72%
- Truck Driver (Truck Pusher): 1.72%
- Rig Helper: 1.72%
- Welder: 5.17%
- Other: 22.41%
European Land Total Recordable Incidents by Occupation (Chart 4)
Based on 88 Incidents

- Electrician (Electronic Technician): 4.55%
- Mechanic (Repair Technician): 3.41%
- Truck Driver (Truck Pusher): 1.14%
- Roustabout (Lease Hand): 11.36%
- Welder: 3.41%
- Rig Helper: 1.14%
- Superintendent/other Supervisors: 1.14%
- Mechanic (Repair Technician): 3.41%
- Toolpusher (Asst.TP, Tourpusher): 1.14%
- Driller (Asst. Dr.): 27.27%
- Floorman: 18.18%
- Motorman: 2.27%
- Electrician (Electronic Technician): 4.55%
- Derrickman: 9.09%
- Other: 15.91%
European Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 58 Incidents

- Finger(s): 20.69%
- Hand(s) / Wrist(s): 6.90%
- Arm(s): 1.72%
- Trunk/Torso (chest, abdomen, groin): 10.34%
- Head: 10.34%
- Back: 1.72%
- Eyes (eyelid): 1.72%
- Digestive/Internal: 1.72%
- Shoulder(s): 5.17%
- Knee(s): 5.17%
- Neck: 3.45%
- Toes: 1.72%
- Feet/Ankles: 10.34%
- Leg(s): 18.97%

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European Land Total Recordable Incidents by Body Part (Chart 6)

Based on 88 Incidents

- **Finger(s)**: 20.45%
- **Hand(s) / Wrist(s)**: 10.23%
- **Leg(s)**: 15.91%
- **Trunk/Torso (chest, abdomen, groin)**: 6.82%
- **Head**: 9.09%
- **Back**: 3.41%
- **Shoulder(s)**: 5.68%
- **Neck**: 2.27%
- **Toes**: 1.14%
- **Knee(s)**: 4.55%
- **Digestive/Internal**: 1.14%
- **Other**: 1.14%
- **Eyes (eyelid)**: 2.27%
- **Feet/Ankles**: 14.77%
- **Arm(s)**: 1.14%
- **Trunk/Torso (chest, abdomen, groin)**: 6.82%
European Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 58 Incidents

Caught Between/In: 18.97%
Struck By: 20.69%
Slip/Fall: Same Level: 12.07%
Slip/Fall: Different Level: 12.07%
Struck Against: 1.72%
Sprain: 1.72%
Exposure to Weather: 1.72%
Debris: 1.72%
Cut: 1.72%
Strain/Overexertion: 3.45%
Flame/heat/steam (contact/exposed): 5.17%
Vehicle: 8.62%
Other: 10.34%
European Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 88 Incidents

Caught Between/In: 20.45%
Struck By: 21.59%
Struck Against: 3.41%
Vehicle: 5.68%
Sprain: 5.68%
Other: 6.82%
Exposure to Weather: 1.14%
Cut: 3.41%
Debris: 1.14%
Flame/heat/steam (contact/exposed): 3.41%
Electrical Shock: 1.14%
Strain/Overexertion: 3.41%
Slip/Fall: Different Level: 12.50%
Slip/Fall: Same Level: 10.23%
European Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 58 Incidents

- Rig Floor Winch/Deck Winch (air/hydraulic) 1.72%
- Decks (grating, walkway) 5.17%
- Ladders 8.62%
- Crane 1.72%
- Pressure Hoses/Lines 6.90%
- Material 1.72%
- Well Control (BOP) Stack (well head, tree) 1.72%
- Cathead/Drawworks 1.72%
- Pipes/Collars/Tubulars/Csg. 10.34%
- Slings (rope, cable, chain, web) 1.72%
- Hand Tools: Manual 5.17%
- Hand Tools: Power 3.45%
- Engines/Pumps/Machinery 3.45%
- Car, truck, bus 8.62%
- Stairs 3.45%
- Other 25.86%
- Tongs 3.45%
- Elevators 3.45%
- Iron Roughneck, Pipe Spinner, etc. 1.72%
- Material 1.72%
European Land Total Recordable Incidents by Equipment (Chart 10)
Based on 88 Incidents

- **Other**: 26.14%
- **Anchor Chains/Cables/Winches**: 1.14%
- **Rig Floor Winch/Deck Winch (air/hydraulic)**: 1.14%
- **Top Drive (blocks, swivel, kelly)**: 1.14%
- **Decks (grating, walkway)**: 3.41%
- **Ladders**: 5.68%
- **Crane**: 3.41%
- **Pressure Hoses/Lines**: 5.68%
- **Material**: 2.27%
- **Well Control (BOP) Stack (well head, tree)**: 3.41%
- **Engines/Pumps/Machinery**: 3.41%
- **Car, truck, bus**: 5.68%
- **Stairs**: 5.68%
- **Hand Tools: Manual**: 4.55%
- **Hand Tools: Power**: 3.41%
- **Engines/Pumps/Machinery**: 3.41%
- **Iron Roughneck, Pipe Spinner, etc.**: 1.14%
- **Pipes/Collars/Tubulars/Csg.**: 10.23%
- **Cathead/Drawworks**: 1.14%
- **Slings (rope, cable, chain, web)**: 2.27%
- **Car, truck, bus**: 5.68%
- **Stairs**: 5.68%
- **Well Control (BOP) Stack (well head, tree)**: 3.41%
- **Elevators**: 2.27%
- **Other**: 26.14%
European Land Total Lost Time Incidents by Operation (Chart 11)
Based on 58 Incidents

- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 13.79%
- Rigging Up/Down (rig move preparation, rig move) 17.24%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance 6.90%
- Rig/Equipment Repairs or Maintenance 8.62%
- Mud Mixing/Pumping 1.72%
- Special Operations (wireline, perforating, etc.) 5.17%
- Routine Drilling Operations 5.17%
- Running Casing/Tubing (rig up/down csg. tools) 3.45%
- Laying Down/Picking up Pipe/Tubulars 3.45%
- Material Handling: Manual 3.45%
- Material Handling: Crane/Cherry Picker 1.72%
- Material Handling: Forklift 1.72%
- Making Connection 1.72%
- Rig/Equipment Repairs or Maintenance 8.62%
- Travel/Transportation 8.62%
- Other 3.45%
- Walking 12.07%
- Cementing 1.72%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.) 13.79%
- Making Connection 1.72%
- Routine Drilling Operations 5.17%
- Running Casing/Tubing (rig up/down csg. tools) 3.45%
- Laying Down/Picking up Pipe/Tubulars 3.45%
- Material Handling: Manual 3.45%
- Material Handling: Crane/Cherry Picker 1.72%
- Material Handling: Forklift 1.72%
- Making Connection 1.72%
- Routine Drilling Operations 5.17%
- Running Casing/Tubing (rig up/down csg. tools) 3.45%
- Laying Down/Picking up Pipe/Tubulars 3.45%
- Material Handling: Manual 3.45%
- Material Handling: Crane/Cherry Picker 1.72%
- Material Handling: Forklift 1.72%
- Making Connection 1.72%
- Routine Drilling Operations 5.17%
- Running Casing/Tubing (rig up/down csg. tools) 3.45%
- Laying Down/Picking up Pipe/Tubulars 3.45%
- Material Handling: Manual 3.45%
- Material Handling: Crane/Cherry Picker 1.72%
- Material Handling: Forklift 1.72%
European Land Total Lost Time Incidents by Location (Chart 13)
Based on 58 Incidents

- Rig Floor (rotary, pipe set back area): 20.69%
- Rig Pad/Rig Decks: 20.69%
- Stairs/Ladders: 6.90%
- Living / Camp Areas / Accommodations: 6.90%
- Mud Pits/Tanks: 5.17%
- Mud Mixing Tank/Area: 5.17%
- Cellar / Substructure / Moonpool: 3.45%
- Machinery Spaces: 3.45%
- Truck, Car, Bus: 8.62%
- Catwalk/V-door: 3.45%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 1.72%
- Well Control (BOP) Stack (well head/tree) Area: 1.72%
- Other: 8.62%
- Mud Pump Room: 3.45%

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European Land Total Recordable Incidents by Location (Chart 14)
Based on 88 Incidents

- Rig Floor (rotary, pipe set back area): 23.86%
- Rig Pad/Rig Decks: 18.18%
- Stairs/Ladders: 12.50%
- Work Rooms (change house, storage house/room): 11.82%
- Living / Camp Areas / Accommodations: 11.36%
- Mud Mixing Tank/Area: 11.36%
- Mud Pits/Tanks: 11.36%
- Well Control (BOP) Stack (well head/tree) Area: 11.36%
- SCR/Electrical Room: 11.36%
- Cellar / Substructure / Moonpool: 11.36%
- Truck, Car, Bus: 5.68%
- Machinery Spaces: 2.27%
- Rig Flow (rotary, pipe set back area): 23.86%
- Mud Pump Room: 2.27%
- Pipe Rack/Pipe Deck: 1.14%
- Catwalk/V-door: 3.41%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 1.14%
- Mud Mixing Tank/Area: 3.41%
- Mud Pits/Tanks: 3.41%
- SCR/Electrical Room: 3.41%
- Work Rooms (change house, storage house/room): 11.36%
- Living / Camp Areas / Accommodations: 11.36%
- Cellar / Substructure / Moonpool: 11.36%
- Truck, Car, Bus: 5.68%
- Machinery Spaces: 2.27%
European Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 58 Incidents

- 0 mo. < 3 mos.: 8.62%
- >3 mos. < 6 mos.: 5.17%
- >6 mos. < 1 yr.: 8.62%
- >1 yr. < 5 yrs.: 53.45%
- >5 yrs. < 10 yrs.: 17.24%
- 10+ yrs.: 6.90%
European Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 88 Incidents

- >1 yr. < 5 yrs. 51.14%
- >6 mos. < 1 yr. 6.82%
- >3 mos. < 6 mos. 5.68%
- >1 yr. < 5 yrs. 19.32%
- >5 yrs. < 10 yrs. 19.32%
- >10 yrs. 9.09%
- 0 mo. < 3 mos. 7.95%
- >6 mos. < 1 yr. 6.82%
European Land Total Lost Time Incidents by Time of Day (Chart 17)
Based on 57 Incidents

- 10:00: 10.53%  
- 11:00: 1.75%  
- 12:00: 1.75%  
- 13:00: 5.26%  
- 14:00: 1.75%  
- 15:00: 1.75%  
- 16:00: 3.51%  
- 17:00: 5.26%  
- 18:00: 12.28%  
- 19:00: 5.26%  
- 20:00: 1.75%  
- 21:00: 3.51%  
- 22:00: 5.26%  
- 23:00: 1.75%  
- 24:00: 1.75%  
- 00:00: 1.75%  
- 01:00: 5.26%  
- 02:00: 1.75%  
- 03:00: 1.75%  
- 04:00: 3.51%  
- 05:00: 3.51%  
- 06:00: 5.26%  
- 07:00: 3.51%  
- 08:00: 5.26%  
- 09:00: 15.79%
European Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 87 Incidents

- 12:00: 6.90%
- 11:00: 6.90%
- 10:00: 6.90%
- 9:00: 11.49%
- 8:00: 4.60%
- 7:00: 4.60%
- 6:00: 4.60%
- 5:00: 2.30%
- 4:00: 2.30%
- 3:00: 1.15%
- 2:00: 4.60%
- 1:00: 5.75%
- 0:00: 2.30%
- 23:00: 3.45%
- 22:00: 5.75%
- 21:00: 2.30%
- 20:00: 1.15%
- 19:00: 3.45%
- 18:00: 8.05%
- 17:00: 3.45%
- 16:00: 4.60%
- 15:00: 3.45%
- 14:00: 6.90%
- 13:00: 3.45%
- 12:00: 6.90%
- 11:00: 6.90%
- 10:00: 6.90%
- 9:00: 11.49%
- 8:00: 4.60%
- 7:00: 4.60%
- 6:00: 4.60%
- 5:00: 2.30%
- 4:00: 2.30%
- 3:00: 1.15%
- 2:00: 4.60%
- 1:00: 5.75%
- 0:00: 2.30%
- 23:00: 3.45%
European Land Total Lost Time Incidents by Age (Chart 19)
Based on 45 Incidents

- 18 - 25: 26.67%
- 26 - 35: 17.78%
- 36 - 45: 15.56%
- 46 - 55: 28.89%
- 56 - 65: 11.11%
European Land Total Recordable Incidents by Age (Chart 20)
Based on 71 Incidents

- 18 - 25: 22.54%
- 26 - 35: 23.94%
- 36 - 45: 21.13%
- 46 - 55: 25.35%
- 56 - 65: 7.04%