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## IADC 2015 US Land Totals (Table 1)

<table>
<thead>
<tr>
<th></th>
<th>Total</th>
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<tbody>
<tr>
<td>Total Man-hours</td>
<td>58,055,785</td>
</tr>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>146</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>118</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>90</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>0</td>
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<tr>
<td>Total Recordables</td>
<td>354</td>
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**Incidence and Frequency Rates**

<table>
<thead>
<tr>
<th>Incident Type</th>
<th>Incidence Rate</th>
<th>Frequency Rate</th>
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<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.50</td>
<td></td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.41</td>
<td></td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.31</td>
<td></td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.55</td>
<td></td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.72</td>
<td></td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>3.58</td>
<td></td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>1.22</td>
<td></td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>6.10</td>
<td></td>
</tr>
</tbody>
</table>

**Companies Reporting:**

- **Land – 32**

Medical Treatment Incidence Rate = MTOs X 200,000
Restricted Work Incidence Rate = RWCs X 200,000
Lost Time Frequency Rate = LTIs + FTLs X 1,000,000
DART Frequency Rate = LTIs + RWC X 1,000,000
Recordable Incidence Rate = RCRD X 200,000
Recordable Frequency Rate = RCRD X 1,000,000

## US Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2015 US Land Charts

US Land Total Lost Time Incidents by Month (Chart 1)

Based on 83 Incidents

- January: 13.25%
- February: 8.43%
- March: 6.02%
- April: 4.82%
- May: 8.43%
- June: 9.64%
- July: 15.66%
- August: 10.84%
- September: 6.02%
- October: 4.82%
- November: 3.61%
- December: 8.43%
US Land Total Recordable Incidents by Month (Chart 2)
Based on 335 incidents

January 15.52%
February 12.24%
March 10.75%
April 8.36%
May 8.06%
June 5.67%
July 7.76%
August 9.85%
September 5.67%
October 5.37%
November 5.07%
December 5.67%
US Land Total Lost Time Incidents by Occupation (Chart 3)
Based on 83 Incidents

- Floorman: 44.58%
- Derrickman: 20.48%
- Toolpusher (Asst. TP, Tourpusher): 4.82%
- Driller (Asst. Dr.): 6.02%
- Motorman: 10.84%
- Electrician: 1.20%
- Mechanic: 1.20%
- Welder: 1.20%
- Truck Helper: 2.41%
- Truck Driver / Pusher: 7.23%
US Land Total Recordable Incidents by Occupation (Chart 4)
Based on 335 Incidents

- Truck Driver / Pusher: 2.39%
- Mechanic: 1.19%
- Crane / Forklift Operator: 0.60%
- Superintendent/other Supervisors: 1.49%
- Rig Helper: 1.19%
- Roustabout (Lease Hand): 0.90%
- Motorman: 12.54%
- Electrician: 0.30%
- Toolpusher (Asst.TP, Tourpusher): 1.49%
- Driller (Asst. Dr.): 6.87%
- Floorman: 49.85%
- Derrickman: 19.40%
- Truck Helper: 0.90%
- Maintenance Super: 0.30%
- Welder: 0.60%
- Roustabout (Lease Hand): 0.90%
US Land Total Lost Time Incidents by Body Part (Chart 5)
Based on 82 Incidents

- Elbow(s) 2.44%
- Knee(s) 4.88%
- Shoulder(s) 4.88%
- Toes 2.44%
- Feet/Ankles 15.85%
- Leg(s) 9.76%
- Finger(s) 14.63%
- Hand(s) / Wrist(s) 7.32%
- Arm(s) 7.32%
- Trunk/Torso (chest, abdomen, groin) 7.32%
- Back 8.54%
- Head 9.76%
- Eyes (eyelid) 4.88%
US Land Total Recordable Incidents by Body Part (Chart 6)
Based on 331 Incidents

- Finger(s): 29.00%
- Elbow(s): 1.81%
- Knee(s): 4.23%
- Shoulder(s): 4.23%
- Nec(s): 0.30%
- Toes: 1.21%
- Feet/Ankles: 6.95%
- Leg(s): 5.74%
- Lungs/Respiratory: 0.30%
- Digestive/Internal: 1.51%
- Eyes (eyelid): 3.02%
- Head: 15.71%
- Back: 6.04%
- Trunk/Torso (chest, abdomen, groin): 3.63%
- Arm(s): 5.44%
- Hand(s) / Wrist(s): 10.88%
- Back: 6.04%
US Land Total Lost Time Incidents by Incident Type (Chart 7)
Based on 83 Incidents

- Caught Between/In: 22.89%
- Struck By: 19.28%
- Slip/Fall: Different Level: 16.87%
- Struck Against: 4.82%
- Slip/Fall: Same Level: 10.84%
- Caught On: 1.20%
- Electrical Shock: 1.20%
- Sprain: 1.20%
- Debris: 3.61%
- Strain/Overexertion: 12.05%
- Exposure to Weather: 2.41%
- Cut: 2.41%
- Contact With Chemicals/Fluids: 1.20%
- Strain/Overexertion: 12.05%
- Slip/Fall: Same Level: 10.84%
- Caught Between/In: 22.89%
- Struck Against: 4.82%
- Slip/Fall: Different Level: 16.87%
- Caught On: 1.20%
- Electrical Shock: 1.20%
- Sprain: 1.20%
- Debris: 3.61%
- Strain/Overexertion: 12.05%
- Exposure to Weather: 2.41%
- Cut: 2.41%
- Contact With Chemicals/Fluids: 1.20%
US Land Total Recordable Incidents by Incident Type (Chart 8)
Based on 334 Incidents

- Caught Between/In: 32.63%
- Struck By: 25.45%
- Heat Exhaustion/Heat Stroke: 1.52%
- Sprain: 0.90%
- Caught On: 0.30%
- Cut: 3.59%
- Flame/heat/steam (contact/exposed): 0.60%
- Electrical Shock: 0.30%
- Exposed to Weather: 0.60%
- Chemical Inhalation: 0.60%
- Strain/Overexertion: 7.78%
- Contact With Chemicals/Fluids: 1.80%
- Slip/Fall: Different Level: 8.98%
- Slip/Fall: Same Level: 8.38%
- Struck Against: 4.49%
- Debris: 2.10%
- Struck By: 25.45%
US Land Total Lost Time Incidents by Equipment (Chart 9)
Based on 79 Incidents

- Boat Cargo (skids, tubulars, containers, etc.): 1.27%
- Decks (grating, walkway): 11.39%
- Ladders: 3.80%
- Forklift: 2.53%
- Pressure Hoses/Lines: 3.80%
- Material: 7.59%
- BOP Stack (well head, tree): 3.80%
- Stairs: 6.33%
- Car, truck, bus: 1.27%
- Tongs: 5.06%
- Elevators: 2.53%
- Slips (drill collar clamp): 1.27%
- Iron Roughneck, Pipe Spinner, etc: 2.53%
- Pipes / Collars / Tubulars / Csg.: 16.46%
- Cathead/Drawworks: 1.27%
- Slings (rope, cable, chain, web): 3.80%
- Hand Tools: Manual: 13.92%
- Hand Tools: Power: 1.27%
- Engines/Pumps/Machinery: 6.33%

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Chart 10: US Land Total Recordable Incidents by Equipment

Based on 310 Incidents

- Anchor Chains/Cables/Winches: 1.61%
- Boat Cargo (skids, tubulars, containers, etc.): 0.32%
- Rig Floor Winch/Deck Winch (air/hydraulic): 0.65%
- Top Drive (blocks, swivel, kelly): 1.61%
- Chemicals (sack, drum, pail, bulk hopper): 2.58%
- Decks (grating, walkway): 9.03%
- Ladders: 1.29%
- Forklift: 2.26%
- Crane: 0.65%
- Pressure Hoses/Lines: 5.81%
- Material: 5.48%
- Well Control (BOP) Stack (well head, tree): 5.48%
- Stairs: 4.19%
- Kelly Bushings (master bushings): 0.32%
- Car, truck, bus: 0.65%
- Cathead/Drawworks: 1.61%
- Iron Roughneck, Pipe Spinner, etc.: 4.19%
- Rotary: 0.97%
- Pipes / Collars / Tubulars / Csg.: 14.52%
- Slings (rope, cable, chain, web): 4.52%
- Elevators: 4.19%
- Slips (drill collar clamp): 1.34%
- Engines/Pumps/Machinery: 7.74%
- Hand Tools: Power: 2.26%
- Hand Tools: Manual: 11.61%
US Land Total Lost Time Incidents by Operation (Chart 11)
Based on 83 Incidents

- **Walking**: 2.41%
- **Cementing**: 1.20%
- **Mud Mixing/Pumping**: 1.20%
- **Special Operations (wireline, perforating, etc.)**: 2.41%
- **Making Connection**: 2.41%
- **Material Handling: Manual**: 3.61%
- **Material Handling: Forklift**: 1.20%
- **Material Handling: Winch Truck**: 1.20%
- **Jacking Up/Down Operations**: 1.20%
- **Travel/Transportation**: 1.20%
- **Tripping in/out (makeup/brakeout, BHA, test tools, etc.)**: 10.84%
- **Making Connection**: 2.41%
- **Routine Drilling Operations**: 20.48%
- **Running Casing/Tubing (rig up/down, csg. tools)**: 2.41%
- **Laying Down/Picking up Pipe/Tubulars**: 6.02%
- **Rigging Up/Down (rig move preparation, rig move)**: 25.30%
- **Routine Drilling Operations**: 20.48%
- **Material Handling: Winch Truck**: 1.20%
- **Material Handling: Manual**: 3.61%
US Land Total Recordable Incidents by Operation (Chart 12)
Based on 332 Incidents

- Travel/Transportation: 0.30%
- Well Testing: 1.81%
- Tripping in/out (makeup/brakeout BHA, test tools, etc.): 13.60%
- Making Connection: 3.32%
- Routine Drilling Operations: 15.71%
- Running Casing/Tubing (rig up/dcsg. tools): 6.65%
- Laying Down/Picking up Pipe/Tubulars: 5.74%
- Material Handling: Manual: 3.63%
- Material Handling: Crane/Cherry Picker: 0.60%
- Material Handling: Winch Truck: 0.30%
- Material Handling: Forklift: 0.91%
- Material Handling: Rig Floor Winch: 0.30%
- Rigging Up/Down (rig move preparation, rig move): 24.47%
- Rig/Equipment Repairs or Maintenance: 13.29%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 3.32%
- Special Operations (wireline, perforating, etc.): 1.81%
- Cementing: 0.60%
- Mud Mixing/Pumping: 2.11%
- Rig/Equipment Repairs or Maintenance: 13.29%
- Routine Drilling Operations: 15.71%
- Running Casing/Tubing (rig up/dcsg. tools): 6.65%
- Laying Down/Picking up Pipe/Tubulars: 5.74%
- Material Handling: Manual: 3.63%
- Material Handling: Crane/Cherry Picker: 0.60%
- Material Handling: Winch Truck: 0.30%
- Material Handling: Forklift: 0.91%
- Material Handling: Rig Floor Winch: 0.30%
- Rigging Up/Down (rig move preparation, rig move): 24.47%
- Rig/Equipment Repairs or Maintenance: 13.29%
- Well Control (BOP) Stack (well head/tree) Install/Maintenance: 3.32%
- Special Operations (wireline, perforating, etc.): 1.81%
- Cementing: 0.60%
- Mud Mixing/Pumping: 2.11%
US Land Total Lost Time Incidents by Location (Chart 13)
Based on 83 Incidents

- Rig Floor: 25.30%
- Rig Pad/Rig Decks: 16.87%
- Cellar/Substructure/Moonpool: 8.43%
- Stairs/Ladders: 2.41%
- Work Rooms: 3.61%
- Fuel/Water Storage Tanks: 2.41%
- BOP Stack (well head/tree) Area: 2.41%
- Mud Pump Room: 4.82%
- Mud Mixing Tank/Area: 1.20%
- Mud Pits/Tanks: 9.64%
- Truck, Car, Bus: 3.61%
- Catwalk/V-door: 2.41%
- Derrick/Mast: 12.05%
- Pipe Rack/ Pipe Deck: 4.82%

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US Land Total Recordable Incidents by Location (Chart 14)
Based on 331 Incidents

- Rig Floor: 36.86%
- Mud Mixing Tank/Area: 3.02%
- Mud Pump Room: 3.93%
- Forklift: 0.30%
- Fuel/Water Storage Tanks: 0.60%
- Catwalk/V-door: 3.02%
- Derrick/Mast: 7.55%
- BOP Stack (well head/tree) Area: 1.21%
- Work, change, storage, rooms: 2.11%
- Stairs/Ladders: 1.81%
- SCR/Electrical Room: 0.30%
- Cellar/Subs./Moonpool: 9.97%
- Rig Pad/Rig Decks: 13.90%
- Crew/Work Boats: 0.30%
- Truck, Car, Bus: 1.51%
- Mud Pits/Tanks: 8.46%
- Shale Shaker: 0.30%
US Land Total Lost Time Incidents by Time in Service (Chart 15)
Based on 83 Incidents

- >1 yr. < 5 yrs. 59.04%
- >5 yrs. < 10 yrs. 9.64%
- >6 mos. < 1 yr. 14.46%
- >3 mos. < 6 mos. 3.61%
- 0 mo. < 3 mos. 6.02%
- 10+ yrs. 7.23%
US Land Total Recordable Incidents by Time in Service (Chart 16)
Based on 335 incidents

- >1 yr. < 5 yrs. 57.61%
- >5 yrs. < 10 yrs. 14.93%
- >10 yrs. 4.48%
- >6 mos. < 1 yr. 13.73%
- >3 mos. < 6 mos. 5.67%
- 0 mo. < 3 mos. 3.58%
- >3 mos. < 1 yr. 14.93%
US Land Total Lost Time Incidents by Time of Day (Chart 17)

Based on 83 Incidents

- 18:00: 6.02%
- 17:00: 7.23%
- 16:00: 8.43%
- 15:00: 4.82%
- 14:00: 9.64%
- 13:00: 3.61%
- 12:00: 2.41%
- 11:00: 9.64%
- 10:00: 3.61%
- 9:00: 6.02%
- 8:00: 6.02%
- 7:00: 2.41%
- 6:00: 2.41%
- 5:00: 4.82%
- 4:00: 4.82%
- 3:00: 2.41%
- 2:00: 2.41%
- 1:00: 1.20%
- 21:00: 3.61%
- 20:00: 3.61%
- 19:00: 1.20%
- 18:00: 3.61%
- 17:00: 7.23%
- 16:00: 8.43%
- 15:00: 4.82%
US Land Total Recordable Incidents by Time of Day (Chart 18)
Based on 335 Incidents

- 12:00: 5.67%
- 1:00: 3.28%
- 2:00: 2.09%
- 3:00: 3.28%
- 4:00: 2.99%
- 5:00: 5.07%
- 6:00: 2.99%
- 7:00: 1.79%
- 8:00: 5.67%
- 9:00: 6.87%
- 10:00: 5.97%
- 11:00: 4.18%
- 12:00: 5.67%
- 13:00: 6.87%
- 14:00: 8.36%
- 15:00: 3.58%
- 16:00: 5.97%
- 17:00: 5.67%
- 18:00: 2.69%
- 19:00: 4.48%
- 20:00: 4.18%
- 21:00: 3.28%
- 22:00: 2.69%
- 23:00: 0.90%
- 24:00: 1.49%
- 1:00: 3.28%
- 2:00: 2.09%
US Land Total Lost Time Incidents by Age (Chart 19)
Based on 81 Incidents

- 18 - 25: 9.88%
- 26 - 35: 41.98%
- 36 - 45: 27.16%
- 46 - 55: 13.58%
- 56 - 65: 7.41%

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US Land Total Recordable Incidents by Age (Chart 20)
Based on 314 Incidents

- 18 - 25: 13.06%
- 26 - 35: 44.59%
- 36 - 45: 23.89%
- 46 - 55: 12.10%
- 56 - 65: 6.37%
- 66 - 75: 3.37%
- 76 - 85: 0.99%
- 86 - 95: 0.07%