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## IADC 2018 Canada Land Totals (Table 1)

<table>
<thead>
<tr>
<th>Total Manhours</th>
<th>4,380,582</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Medical Treatment Incidents</td>
<td>3</td>
</tr>
<tr>
<td>Total Restricted Work Incidents</td>
<td>11</td>
</tr>
<tr>
<td>Total Lost Time Incidents</td>
<td>5</td>
</tr>
<tr>
<td>Total Fatalities</td>
<td>1</td>
</tr>
<tr>
<td>Total Recordables</td>
<td>20</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Category</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>MTO Incidence Rate</td>
<td>0.14</td>
</tr>
<tr>
<td>RWC Incidence Rate</td>
<td>0.50</td>
</tr>
<tr>
<td>LTI Incidence Rate</td>
<td>0.27</td>
</tr>
<tr>
<td>LTI Frequency Rate</td>
<td>1.37</td>
</tr>
<tr>
<td>DART Incidence Rate</td>
<td>0.78</td>
</tr>
<tr>
<td>DART Frequency Rate</td>
<td>3.88</td>
</tr>
<tr>
<td>Recordable Incidence Rate</td>
<td>0.91</td>
</tr>
<tr>
<td>Recordable Frequency Rate</td>
<td>4.57</td>
</tr>
</tbody>
</table>

### Companies Reporting: Land – 3

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

### Canada Land Total Incidence Rates vs Man-hours (Figure 1)
IADC 2018 Canada Land Charts

Note: There were only five Lost Time Incident recorded for 2018, therefore there will not be any charts.

Canada Land Total Recordable Incidents by Month (Chart 1)

Based on 20 Incidents
Canada Land Total Recordable Incidents by Occupation (Chart 2)
Based on 20 Incidents

Floorman: 60.00%
Derrickman: 10.00%
Driller (Asst. Dr.): 15.00%
Motorman: 5.00%
Crane Operator (Forklift Operator): 10.00%
Canada Land Total Recordable Incidents by Body Part (Chart 3)
Based on 20 Incidents

- Head: 10.00%
- Shoulder(s): 10.00%
- Back: 5.00%
- Arm(s): 5.00%
- Hand(s) / Wrist(s): 5.00%
- Finger(s): 30.00%
- Leg(s): 5.00%
- Feet/Ankles: 25.00%
- Trunk/Torso (chest, abdomen, groin): 5.00%
- Arm(s): 5.00%
- Hand(s) / Wrist(s): 5.00%
- Finger(s): 30.00%
- Head: 10.00%
- Shoulder(s): 10.00%
- Back: 5.00%
- Arm(s): 5.00%
- Hand(s) / Wrist(s): 5.00%
- Finger(s): 30.00%
- Leg(s): 5.00%
- Feet/Ankles: 25.00%
- Trunk/Torso (chest, abdomen, groin): 5.00%
Canada Land Total Recordable Incidents by Incident Type (Chart 4)
Based on 20 Incidents

- **Struck Against** 5.00%
- **Slip/Fall: Same Level** 15.00%
- **Slip/Fall: Different Level** 20.00%
- **Sprain** 10.00%
- **Cut** 10.00%
- **Sprain** 10.00%
- **Struck By** 10.00%
- **Caught Between/In** 25.00%
- **Contact With Chemicals/Fluids** 5.00%
- **Struck By** 10.00%
Canada Land Total Recordable Incidents by Equipment (Chart 5)
Based on 20 Incidents

- Ladders: 10.00%
- Material: 20.00%
- Stairs: 20.00%
- Engines/Pumps/Machinery: 5.00%
- Hand Tools: Manual: 20.00%
- Slings (rope, cable, chain, web): 5.00%
- Iron Roughneck, Pipe Spinner, etc.: 5.00%
- Elevators: 5.00%
- Decks (grating, walkway): 10.00%

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Canada Land Total Recordable Incidents by Operation (Chart 6)
Based on 20 Incidents

Well Testing: 5.00%
Cementing: 5.00%
Rigging Up/Down (rig move preparation, rig move): 15.00%
Routine Drilling Operations: 35.00%
Rig/Equipment Repairs or Maintenance: 15.00%
Material Handling: Manual: 5.00%
Running Casing/Tubing (rig up/down csg. tools): 20.00%
Canada Land Total Recordable Incidents by Location (Chart 7)
Based on 20 Incidents

- Cellar/Sub/Moonpool: 15.00%
- Stairs/Ladders: 5.00%
- Shale Shaker: 5.00%
- Catwalk/V-door: 5.00%
- Mud Pump Room: 5.00%
- Rig Pad/Rig Decks (rig/well site/location, yard): 10.00%
- Mud Mixing Tank/Area: 10.00%
- Rig Floor (rotary, pipe set back area): 40.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 5.00%
- Rig Pad/Rig Decks (rig/well site/location, yard): 10.00%
- Rig Floor (rotary, pipe set back area): 40.00%
- Mud Mixing Tank/Area: 10.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 5.00%
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- Mud Mixing Tank/Area: 10.00%
- Derrick/Mast (crown, monkey/stabbing board, a-frame): 5.00%
- Rig Pad/Rig Decks (rig/well site/location, yard): 10.00%
- Rig Floor (rotary, pipe set back area): 40.00%
Canada Land Total Recordable Incidents by Time in Service (Chart 8)
Based on 20 Incidents

- 10+ yrs.: 30.00%
- >5 yrs. < 10 yrs.: 15.00%
- >1 yr. < 5 yrs.: 30.00%
- >6 mos. < 1 yr.: 10.00%
- 0 mo. < 3 mos.: 15.00%
Canada Land Total Recordable Incidents by Time of Day (Chart 9)
Based on 20 Incidents

18:00 5.00%
16:00 5.00%
14:00 5.00%
13:00 5.00%
6:00 5.00%
5:00 5.00%
1:00 10.00%
20:00 5.00%
23:00 5.00%
17:00 20.00%
15:00 5.00%
11:00 5.00%
9:00 15.00%
8:00 5.00%

Canada Land Total Recordable Incidents by Age (Chart 10)
Based on 4 Incidents

- 36 - 45: 25.00%
- 26 - 35: 50.00%
- 18 - 25: 25.00%