ANALYZING WORKPLACE INJURIES IN THE Manufacturing Industry

To eliminate workplace injuries and fatalities, we must understand when, why and how they happen. Having these specific analytics on hand will allow businesses in hazardous industries to target problem areas and initiate solutions that will lower the number of workplace accidents.

The Manufacturing sector is comprised of establishments engaged in the mechanical, physical or chemical transformation of materials, substances or components into new products.

The highest number of injury incidents in the Manufacturing industry occurred:
- at Noon
- on Tuesday
- in March
- on Multiple Body Parts
- on Males
- within 50-59 Age Group
- in St. Louis County

Ranked #1 in Workplace Fatalities
21 out of 142 Fatalities are in Manufacturing 14.79%

Top Industries in Number of Injury Incidents

- Health Care and Social Assistance: 18,576
- Manufacturing: 12,547
- Retail Trade: 10,927
- Public Administration: 10,016
- Transp. and Warehousing: 6,358
- Acc. Food Services: 4,979

Top Industries in Lost Time Injury Incidents

- Health Care and Social Assistance: 1,727
- Public Administration: 1,530
- Manufacturing: 1,258
- Transportation & Warehousing: 1,128
- Retail Trade: 879
- Construction: 528
Injury Incidents by Time of Day
Most Manufacturing incidents occurred during the Noon hour.

Injury Incidents by Day of the Week
Most Manufacturing incidents occurred on a Tuesday.

<table>
<thead>
<tr>
<th>S</th>
<th>M</th>
<th>T</th>
<th>W</th>
<th>T</th>
<th>F</th>
<th>S</th>
</tr>
</thead>
<tbody>
<tr>
<td>418</td>
<td>2,432</td>
<td>2,475</td>
<td>2,402</td>
<td>2,325</td>
<td>1,867</td>
<td>628</td>
</tr>
</tbody>
</table>

Top 10 Injury Incidents by Body Part
Multiple body parts were the most injured body part in Manufacturing.

- Multiple Body Parts: 2,021
- Finger(s)/Thumb(s): 1,758
- Wrist(s)/Hand(s): 1,691
- Upper Arm(s)/Shoulder(s): 1,068
- Back: 1,038
- Knee(s)/Lower Leg(s): 872
- Elbow(s)/Lower Arm(s): 768
- Ankle(s)/Foot/Feet: 711
- Eye(s): 544
- Abdomen/Groin/Buttocks: 230

Injury Incidents by Gender
In Manufacturing, males had over two times more incidents than females.

<table>
<thead>
<tr>
<th></th>
<th>Female</th>
<th>Male</th>
</tr>
</thead>
<tbody>
<tr>
<td>Incidents</td>
<td>3,645</td>
<td>8,786</td>
</tr>
</tbody>
</table>

Injury Incidents by Month
The highest number of Manufacturing incidents occurred in March.

<table>
<thead>
<tr>
<th>Jan</th>
<th>Feb</th>
<th>Mar</th>
</tr>
</thead>
<tbody>
<tr>
<td>923</td>
<td>1,000</td>
<td>1,377</td>
</tr>
<tr>
<td>Apr</td>
<td>May</td>
<td>Jun</td>
</tr>
<tr>
<td>1,055</td>
<td>1,050</td>
<td>1,003</td>
</tr>
<tr>
<td>Jul</td>
<td>Aug</td>
<td>Sep</td>
</tr>
<tr>
<td>1,027</td>
<td>1,113</td>
<td>1,033</td>
</tr>
<tr>
<td>Oct</td>
<td>Nov</td>
<td>Dec</td>
</tr>
<tr>
<td>1,099</td>
<td>957</td>
<td>910</td>
</tr>
</tbody>
</table>
Incidents by Age Group

The 50-59 age group had the highest number of injury incidents in Manufacturing.

<table>
<thead>
<tr>
<th>Age Group</th>
<th>Manufacturing</th>
<th>All Industries Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-15</td>
<td>0</td>
<td>61</td>
</tr>
<tr>
<td>16-19</td>
<td>308</td>
<td>4,054</td>
</tr>
<tr>
<td>20-29</td>
<td>2,571</td>
<td>22,187</td>
</tr>
<tr>
<td>30-39</td>
<td>2,705</td>
<td>19,626</td>
</tr>
<tr>
<td>40-49</td>
<td>2,600</td>
<td>17,336</td>
</tr>
<tr>
<td>50-59</td>
<td>2,897</td>
<td>18,058</td>
</tr>
<tr>
<td>60-69</td>
<td>1,367</td>
<td>9,093</td>
</tr>
<tr>
<td>70-79</td>
<td>92</td>
<td>1,258</td>
</tr>
<tr>
<td>80-89</td>
<td>6</td>
<td>125</td>
</tr>
<tr>
<td>Unknown</td>
<td>1</td>
<td>10</td>
</tr>
</tbody>
</table>

Incidents by County

St. Louis County had the most Manufacturing incidents.

Top 5 Counties with the Most Incidents

- St. Louis County: 1,720
- Jackson: 1,211
- Clay: 892
- St. Charles: 922
- Greene: 853

Injury Incidents by Cause

Most manufacturing incidents occur due to lifting

- Lifting: 1,157
- Strain or Injury by, NOC: 945
- Repetitive Motion: 905
- Pushing or Pulling: 708
- On Same Level: 602

Injury Incidents by Nature

The highest number of manufacturing injury incidents are strain and tears

- Strain or Tear: 3,329
- Contusion: 1,773
- Laceration: 1,685
- Sprain or Tear: 1,167
- All Other Specific Injuries, NOC: 886

Visit safeatwork.mo.gov to learn more ways to keep your workplace safe.