

NAR Data Breakdowns First Six Months of 2009

October 14, 2009

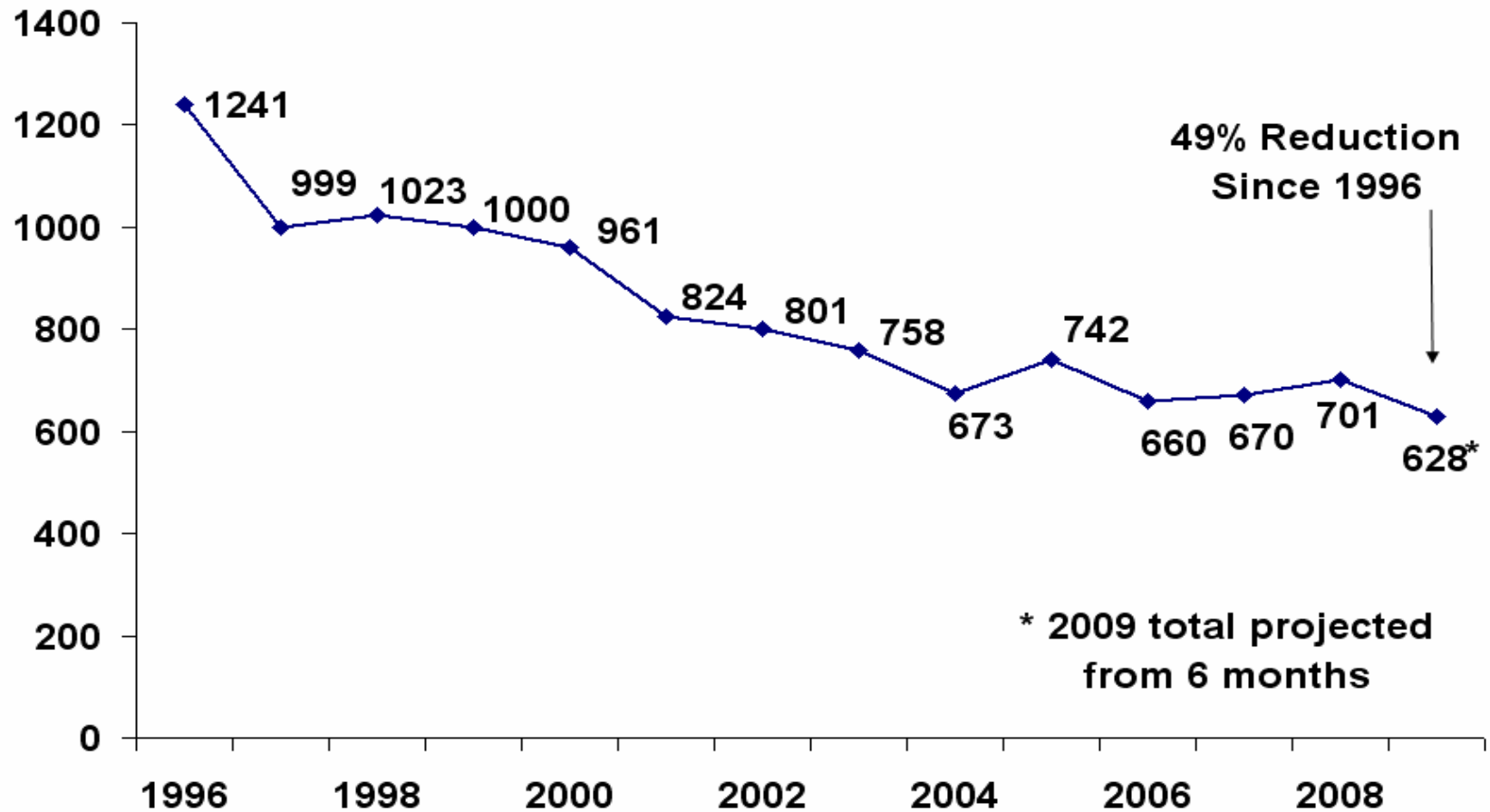
Source of data: AAR/BOE Database
& Annual Hazmat Reports

Todd Treichel
ttreichel@aar.org
<http://www.nar.aar.com>



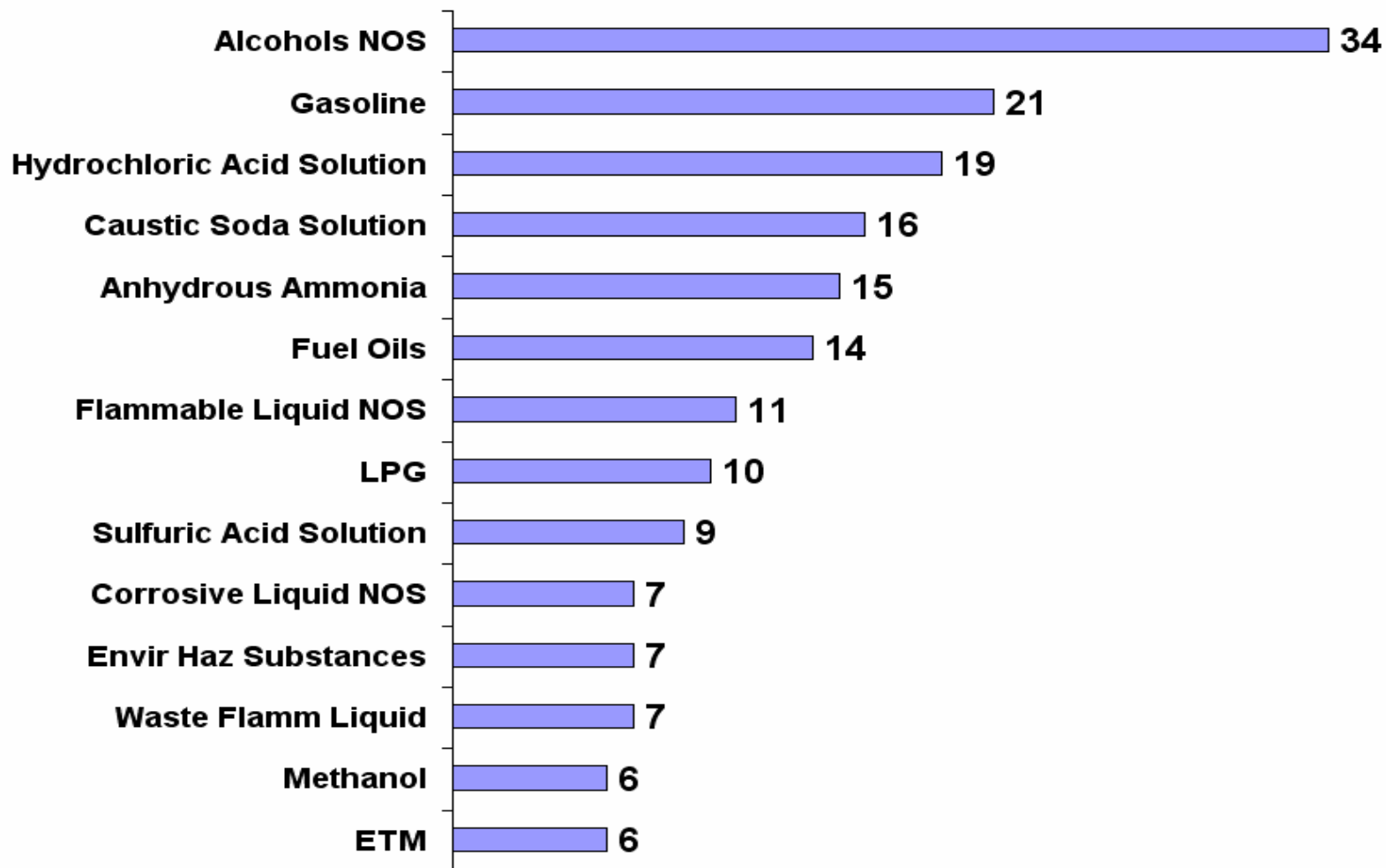
NARs by Year

US & Canada

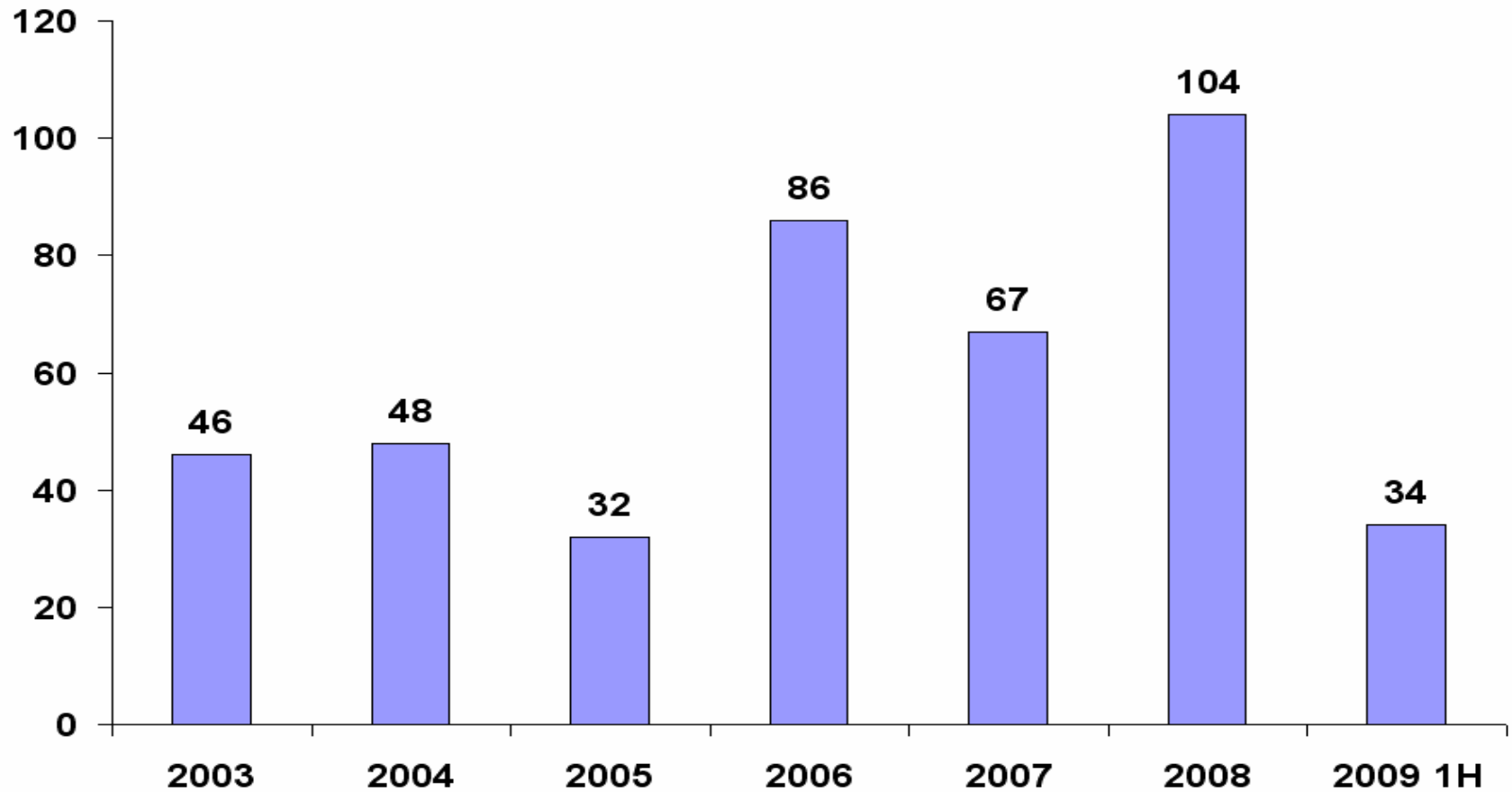


Top Commodities for NARs

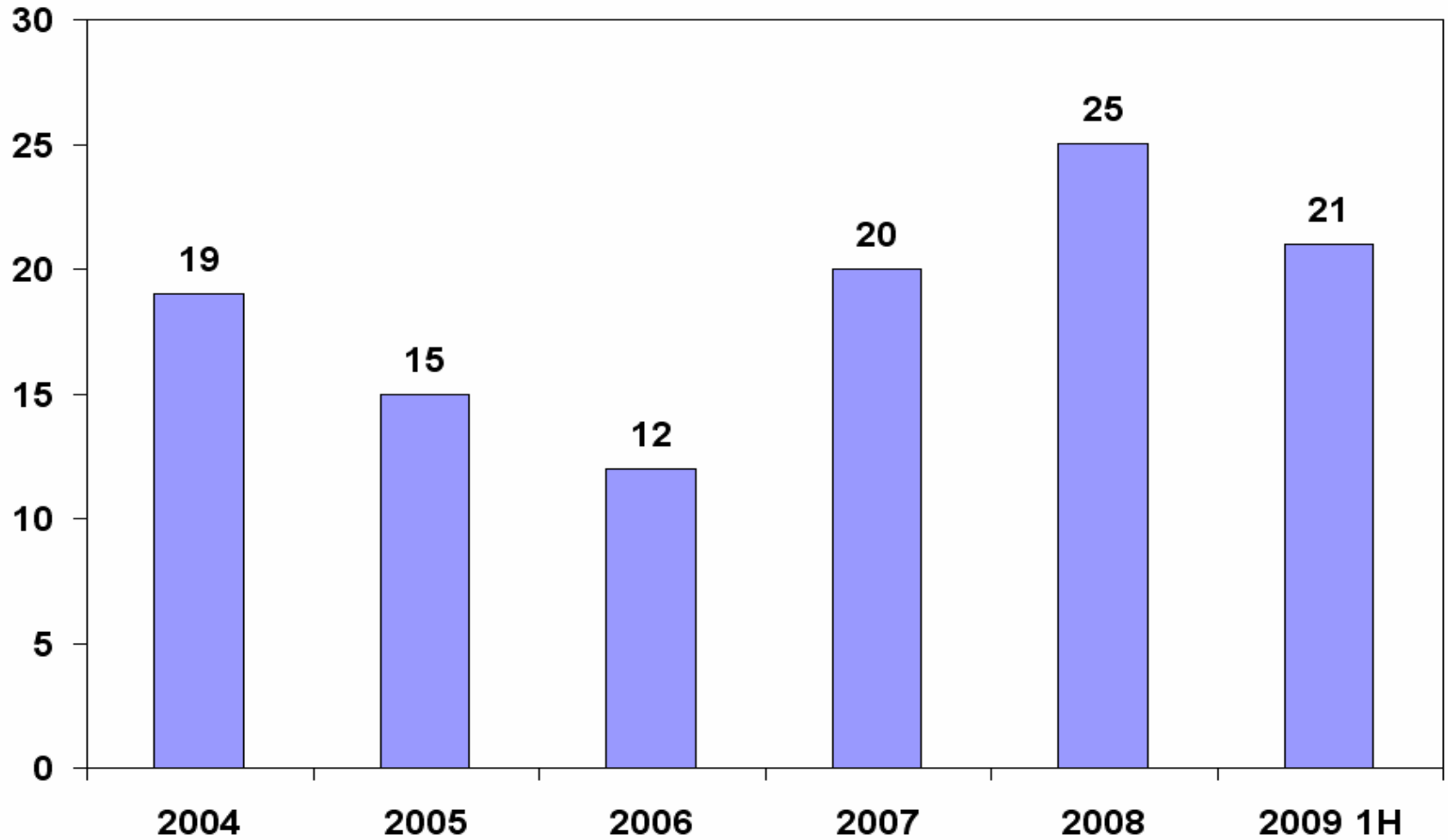
First 6 Months 2009



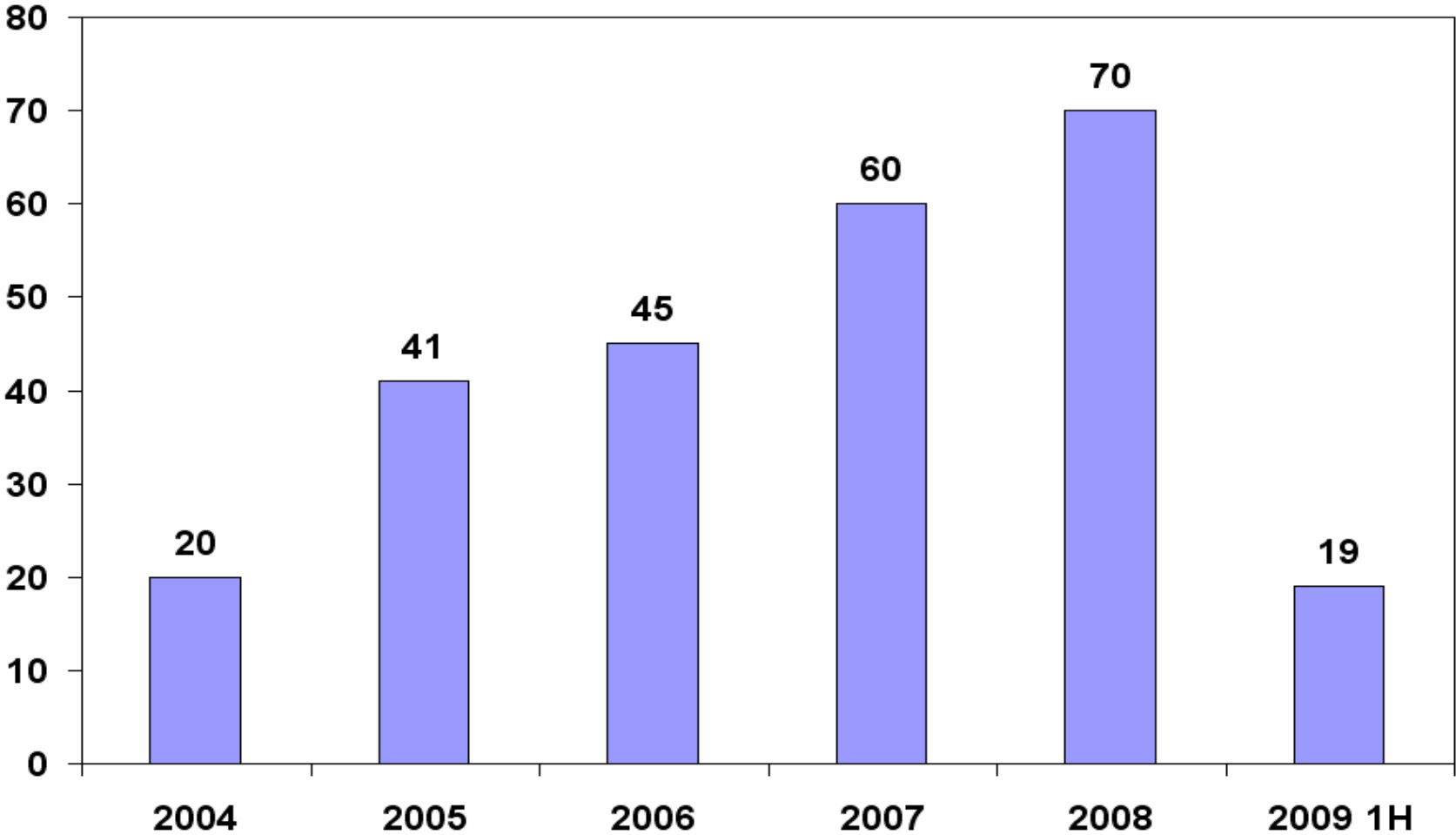
Alcohols NOS Trend



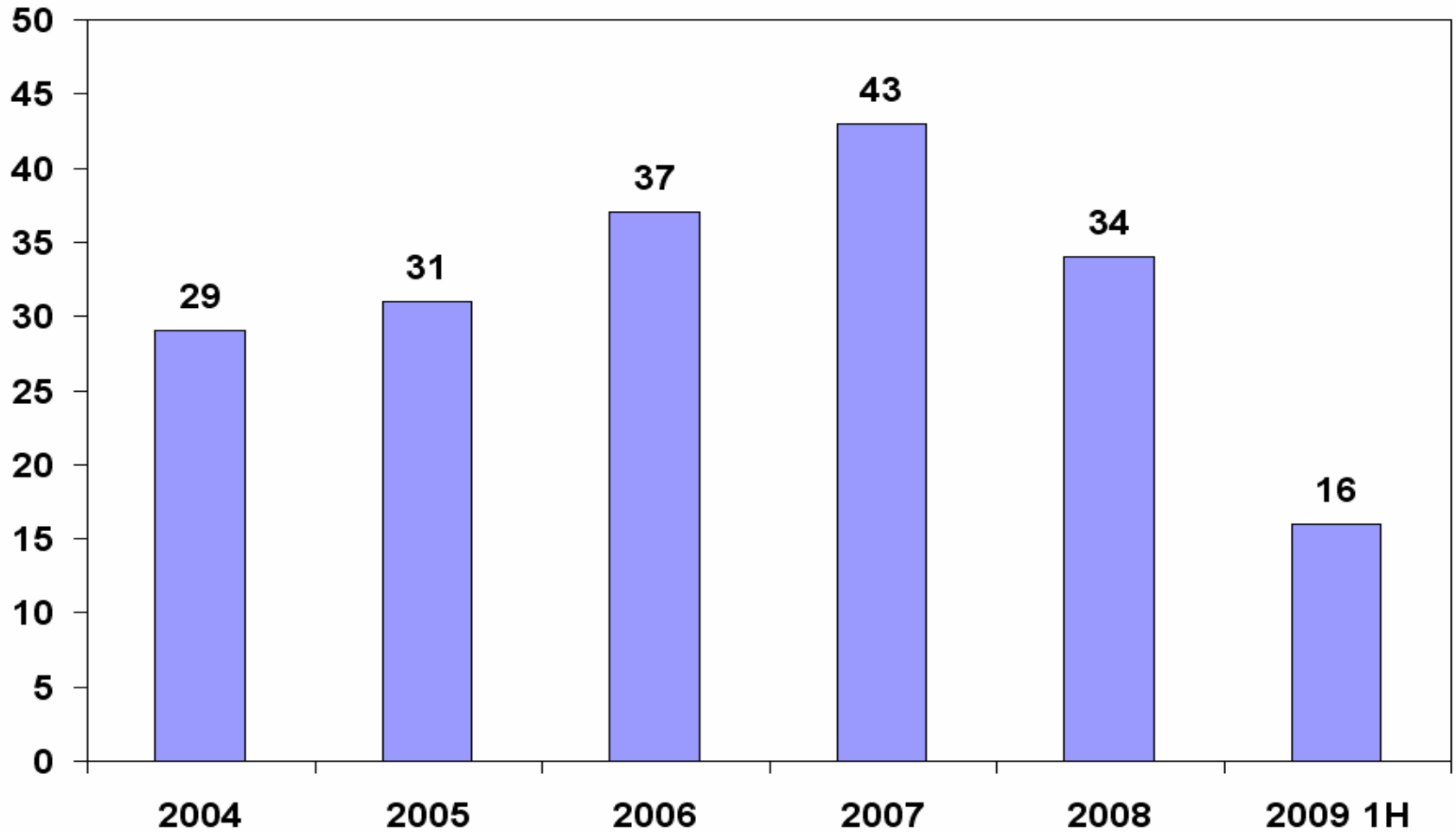
Gasoline Trend



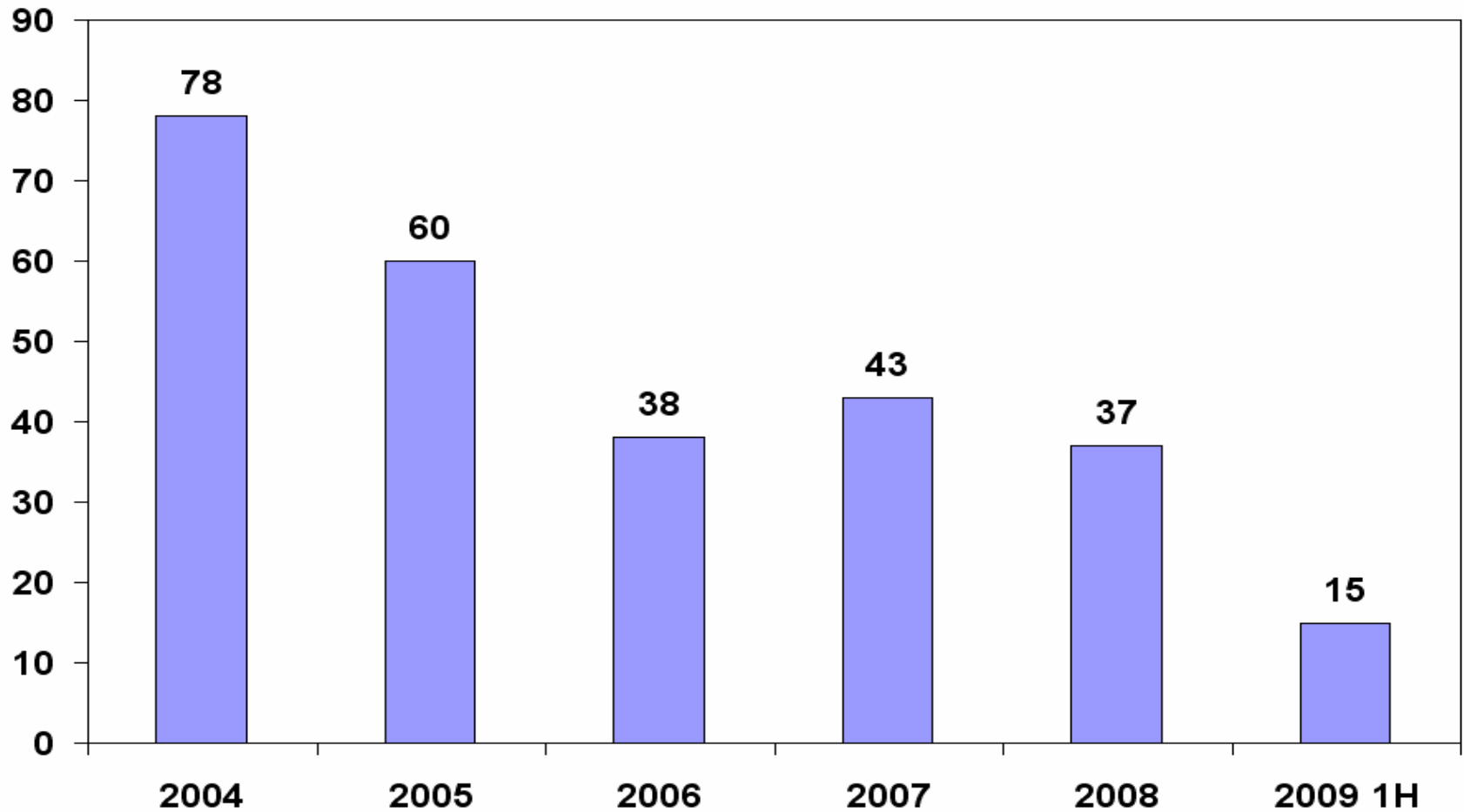
Hydrochloric Acid Solution Trend



Sodium Hydroxide Solution Trend

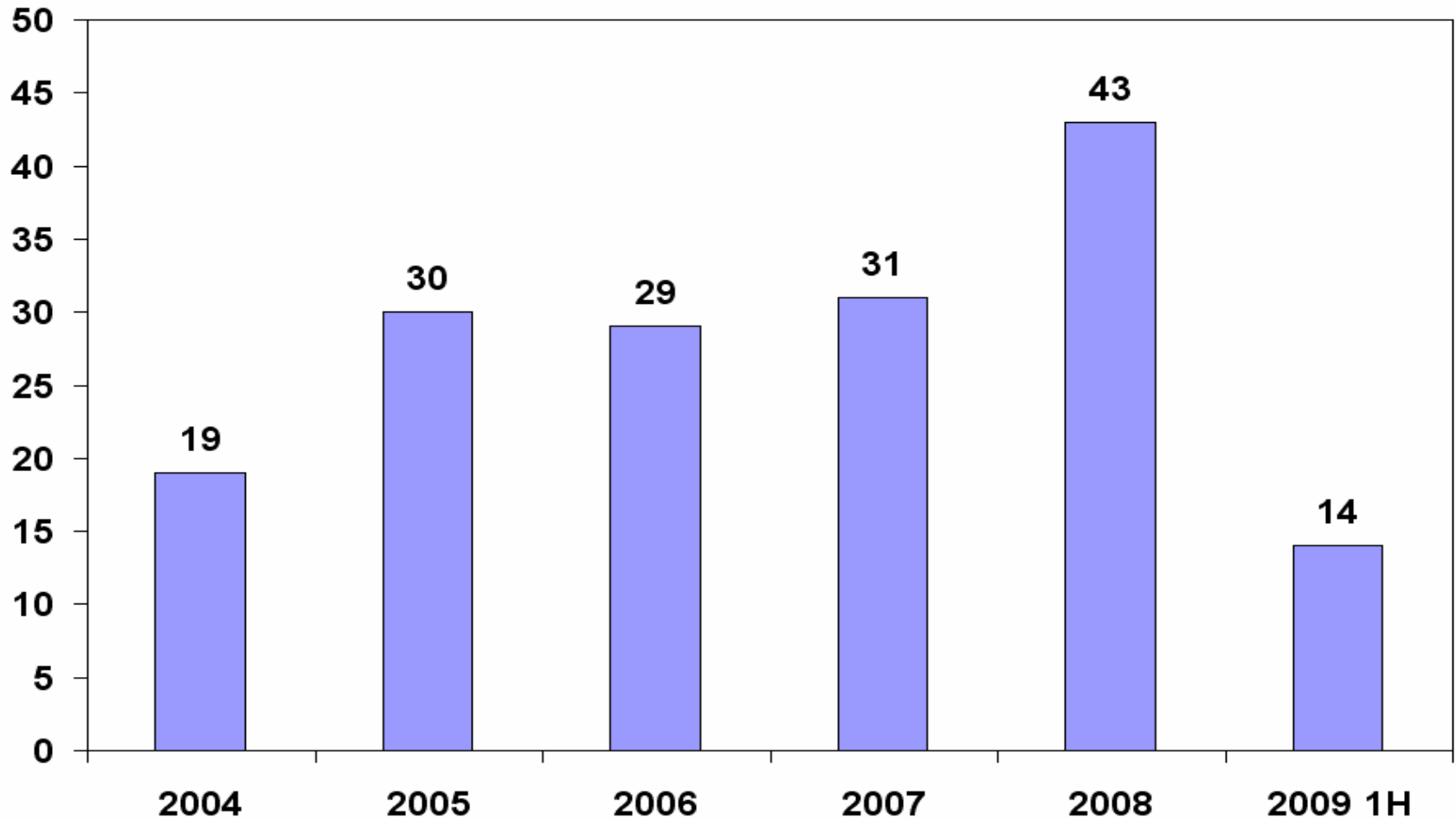


Anhydrous Ammonia Trend

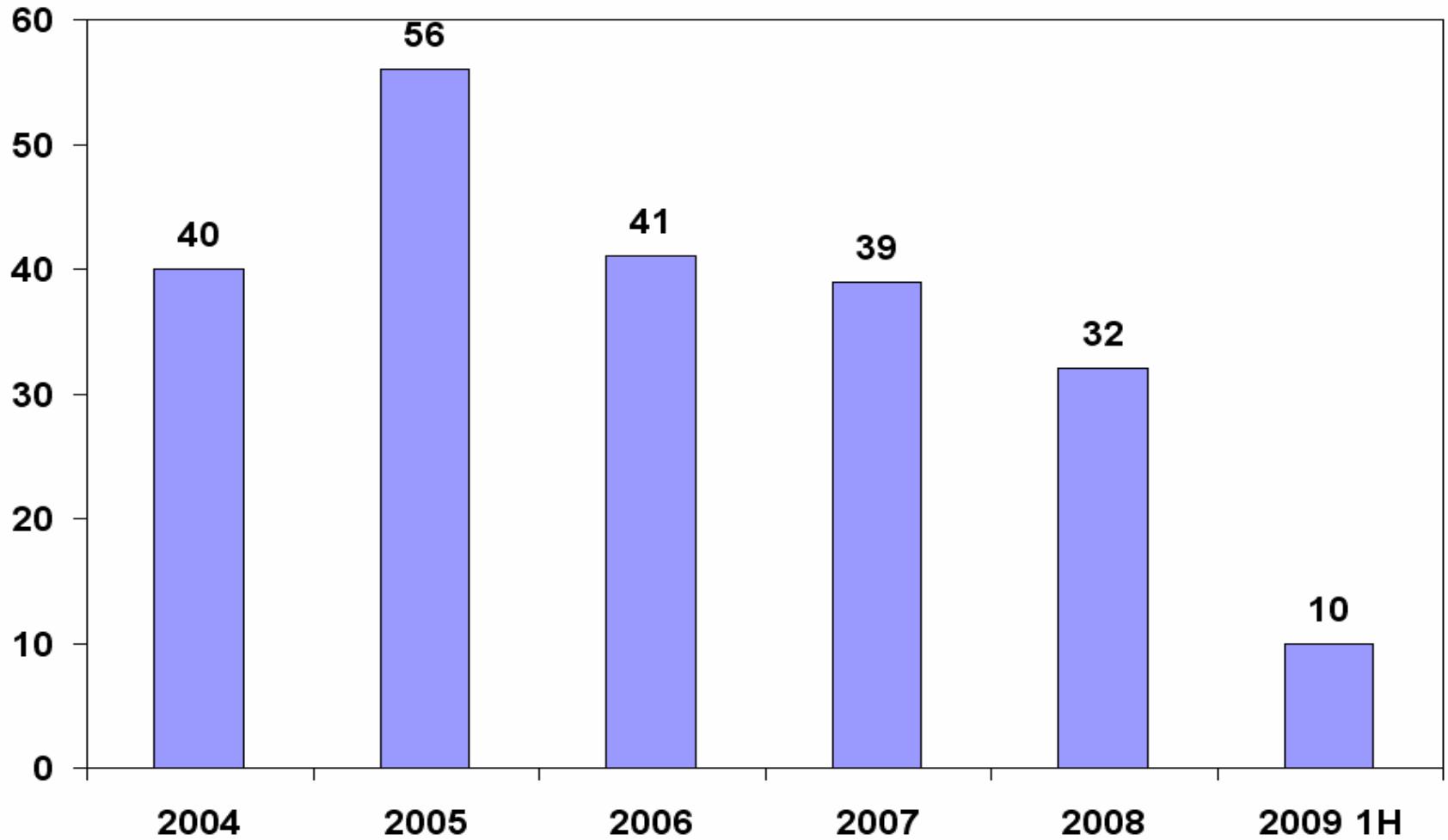


Fuel Oils Trend

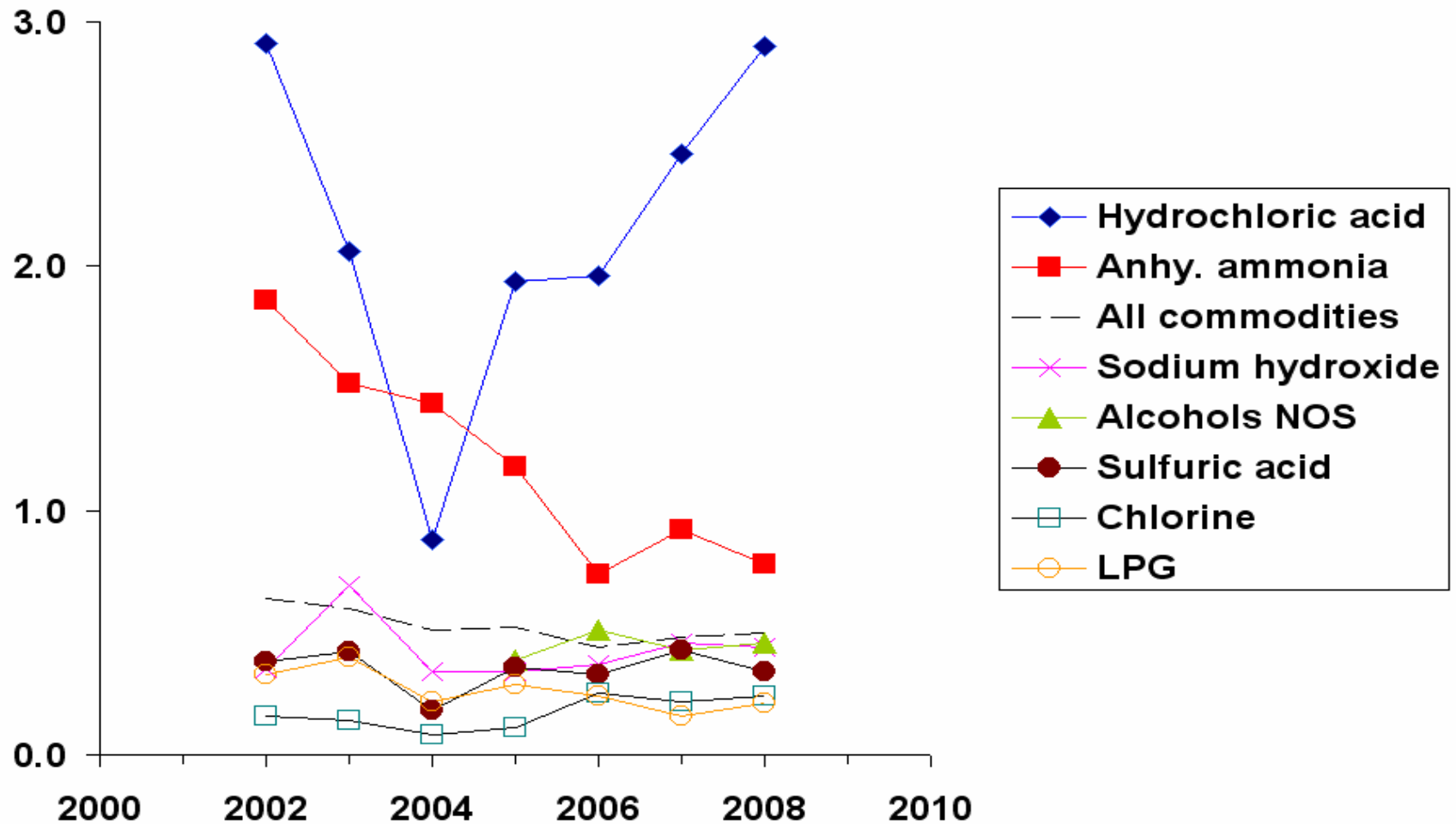
Includes Diesel Fuel, Aviation Fuel, Fuel Oil, Kerosene



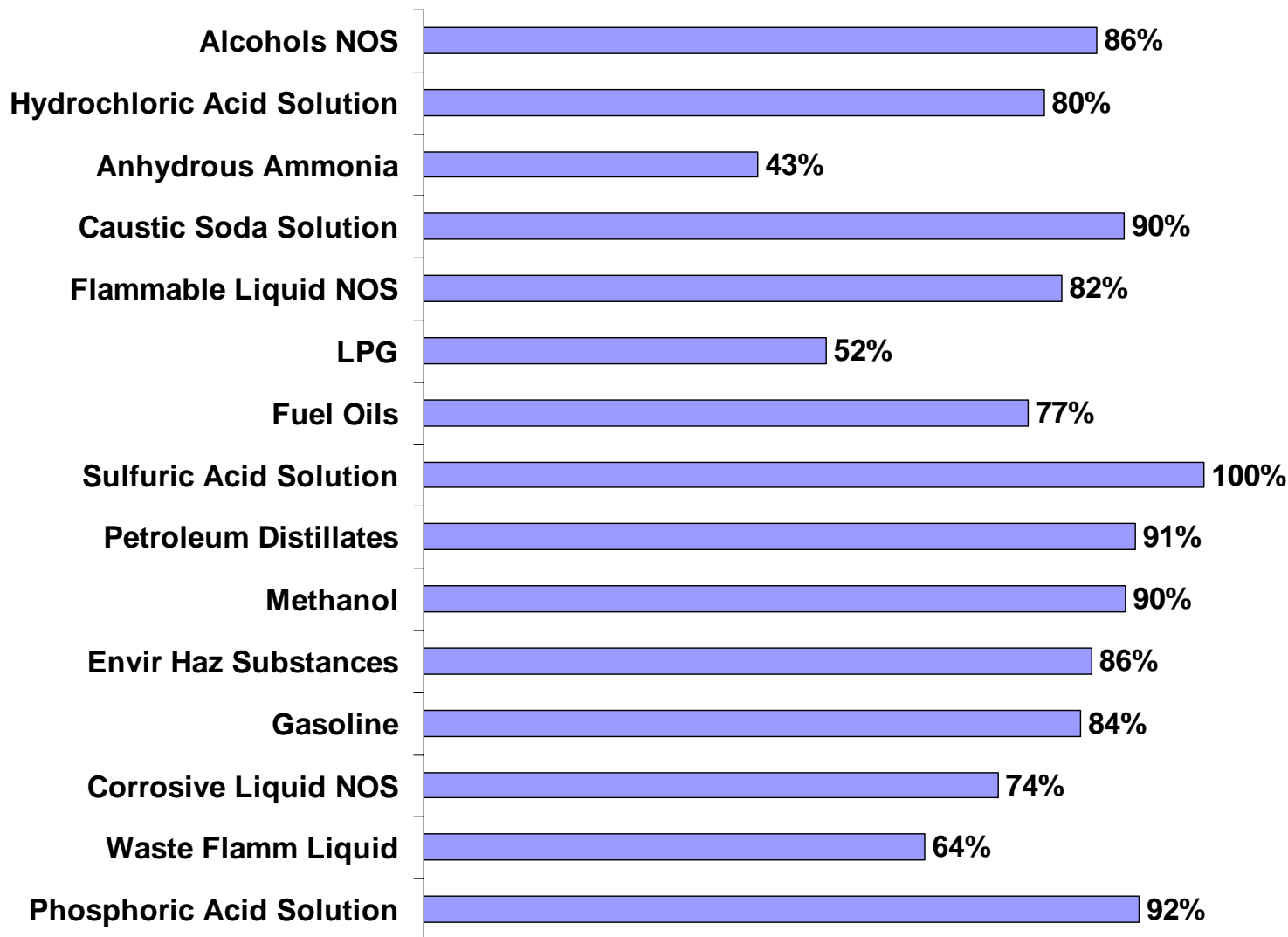
LPG Trend



NARs per 1,000 Originations Selected Commodities

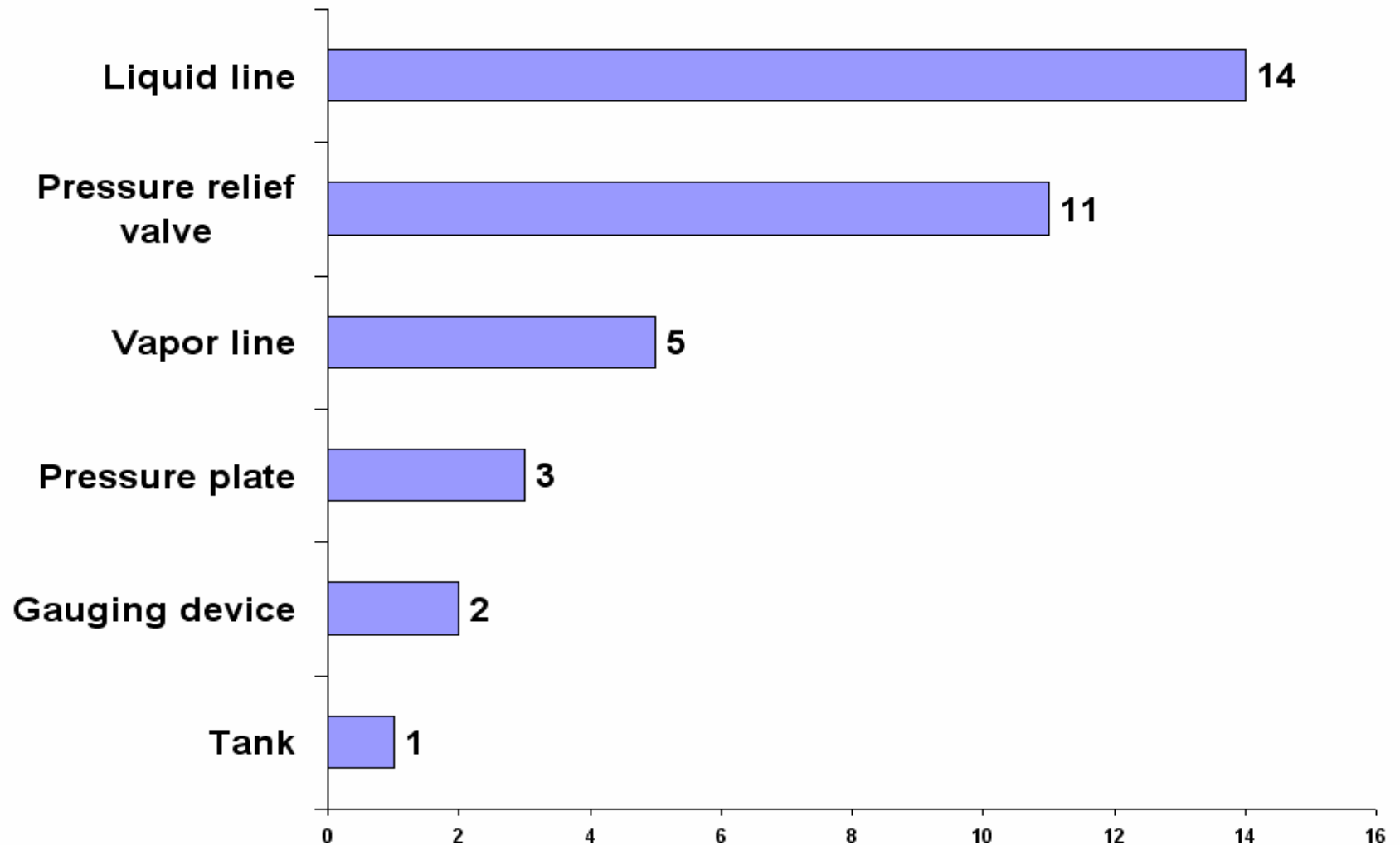


Percent of NARs Occurring on Loaded Trips - 2007



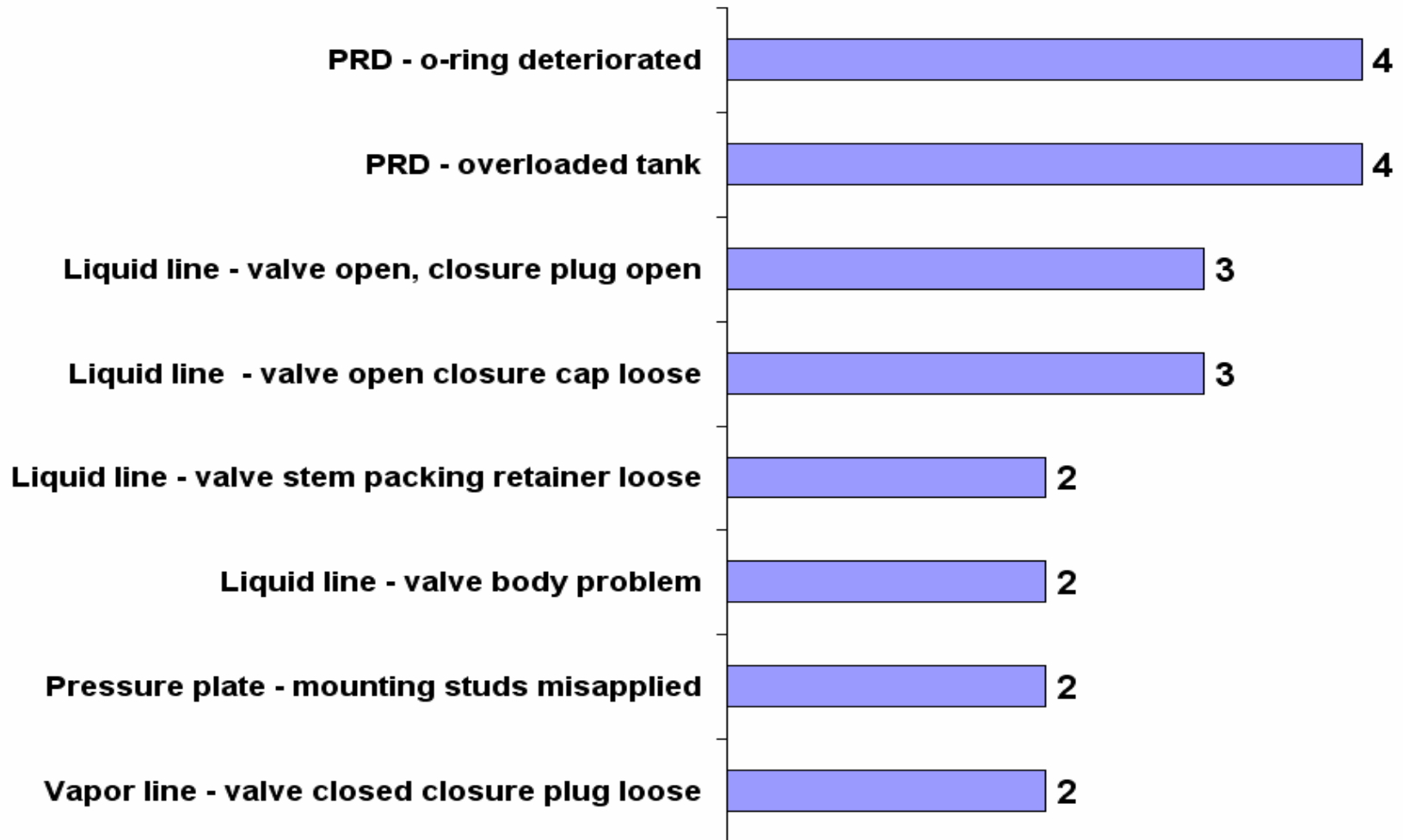
Pressure Car NARs by Component

First 6 Months of 2009



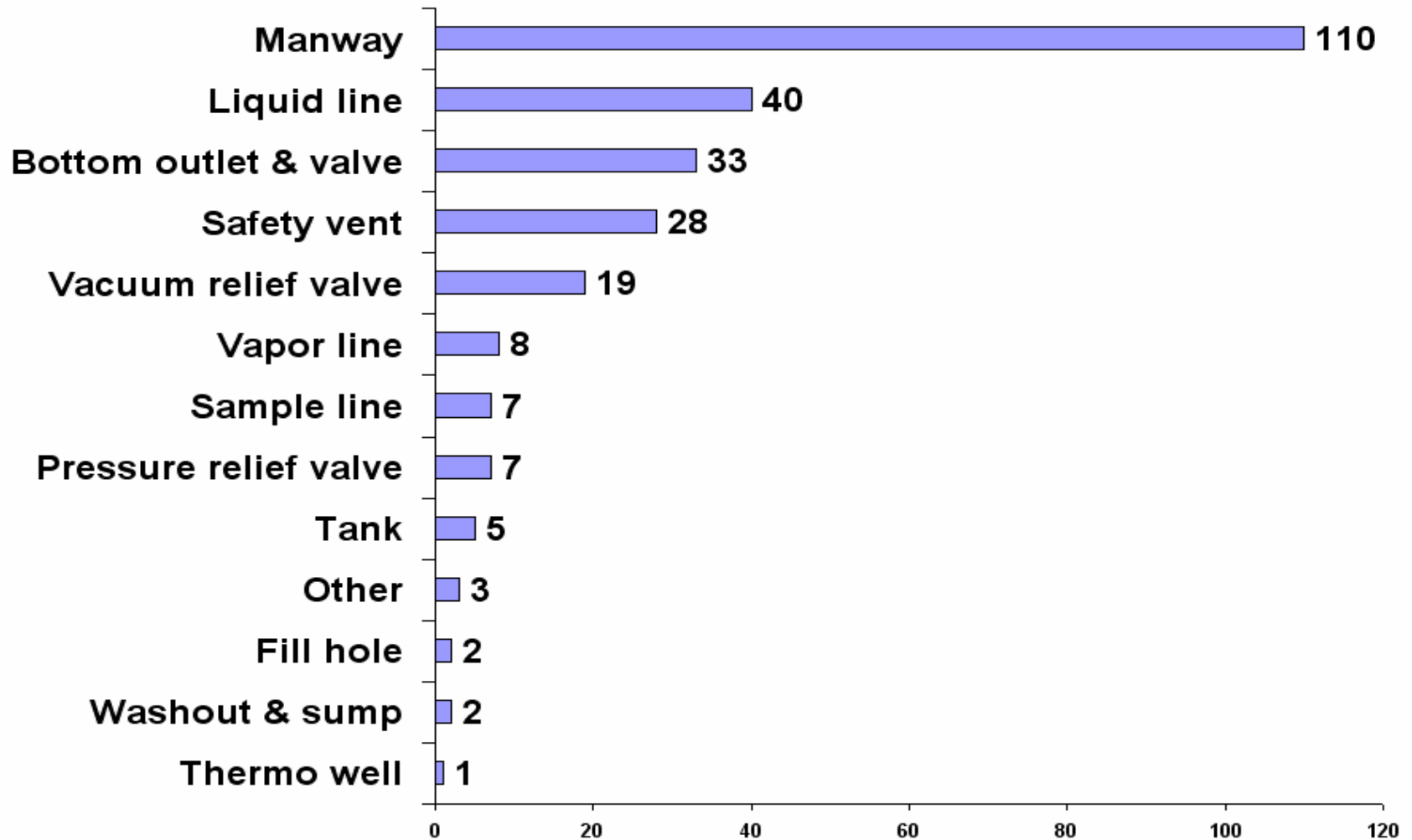
Top Specific Causes for Pressure Cars

First 6 Months of 2009

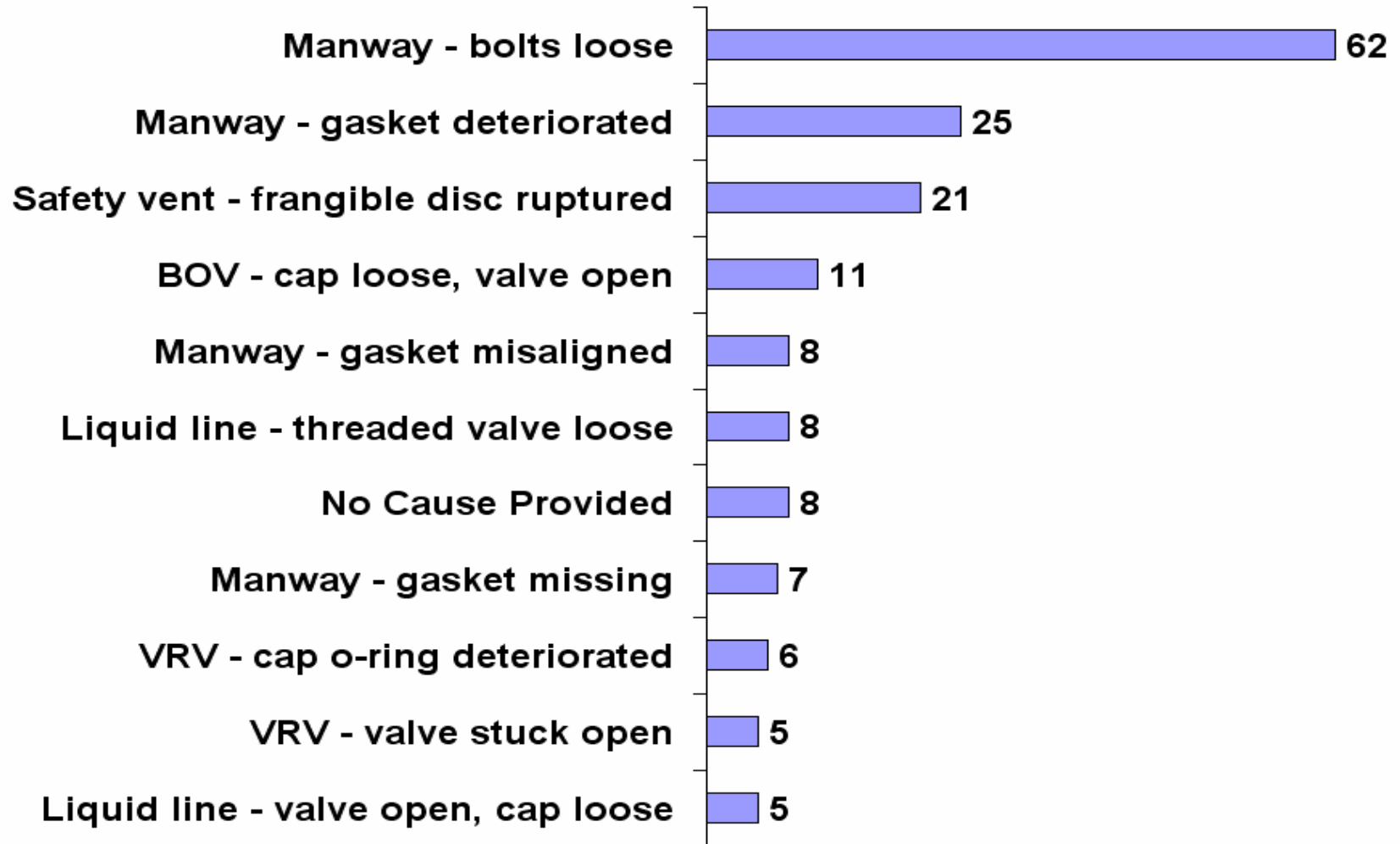


Nonpressure Car NARs by Component

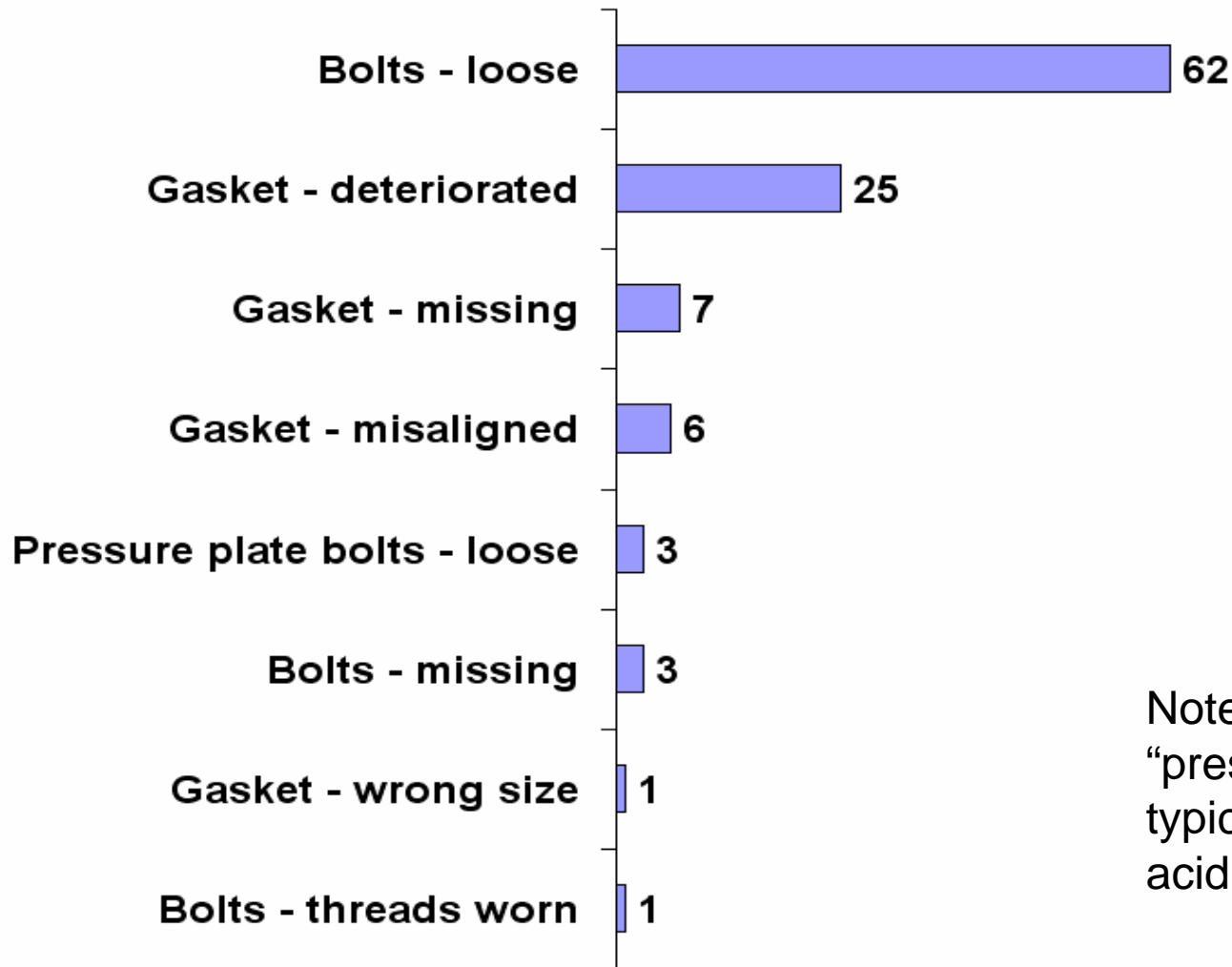
First 6 Months of 2009



Top Specific Causes for Nonpressure Cars First 6 Months of 2009



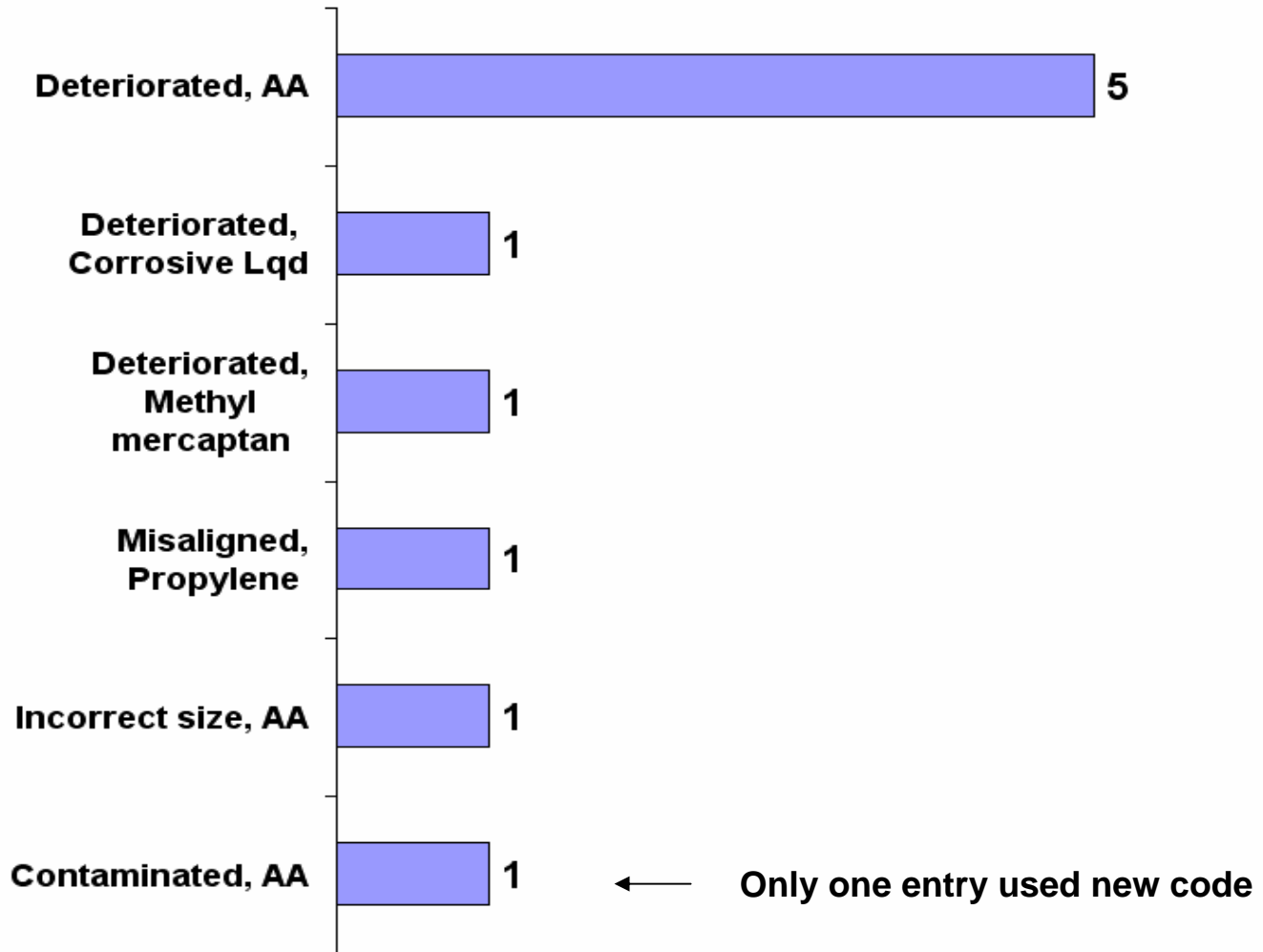
Manway Causes for Nonpressure Cars First 6 Months of 2009



Note: Causes labeled
“pressure plate” are
typically referring to
acid car arrangements

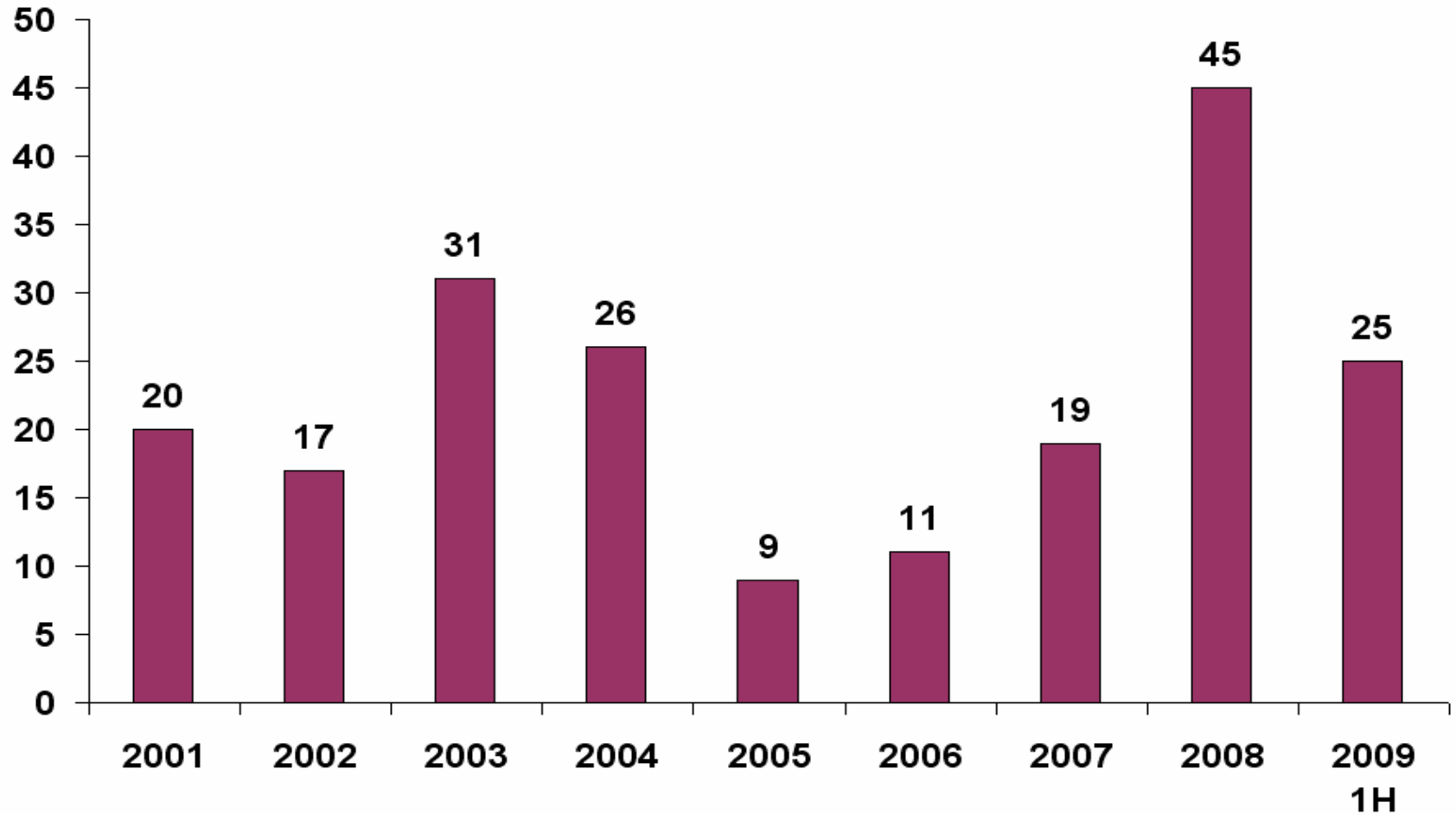
PRV O-ring NARs

First 6 Months of 2009



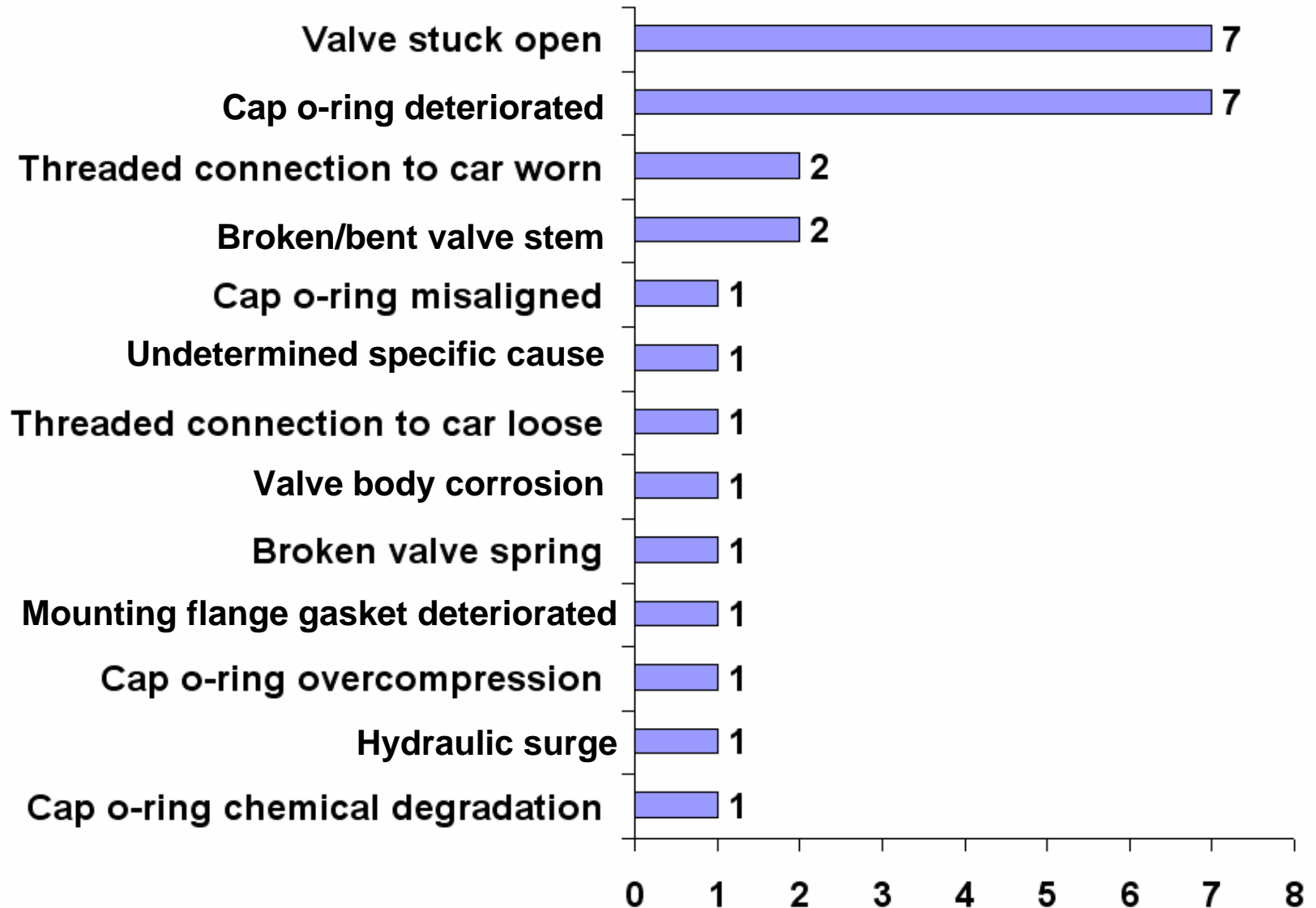
Vacuum Relief Valve NARs

2001- 2008 and 1H 2009



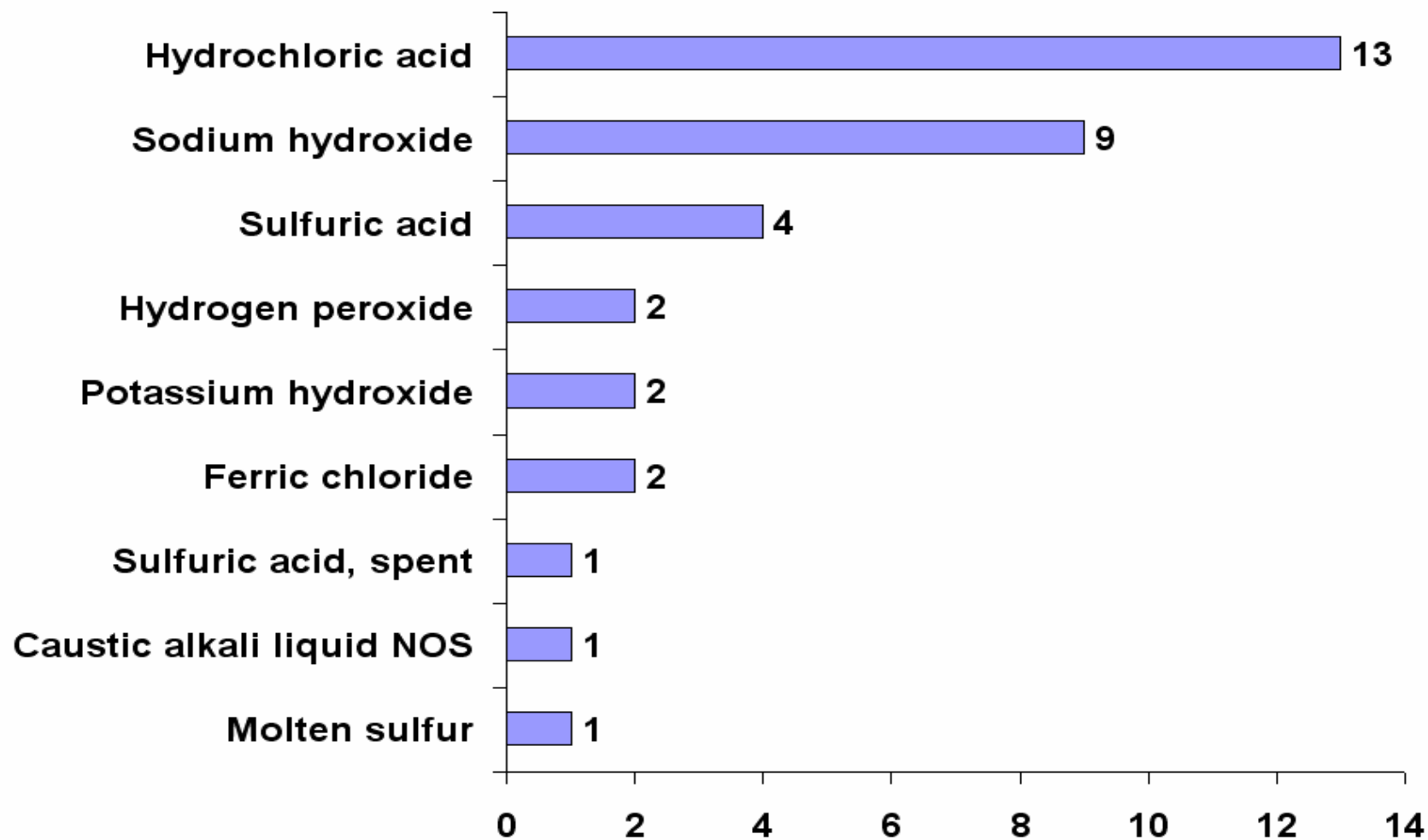
Vacuum Relief Valve NAR Causes

First 6 Months of 2009



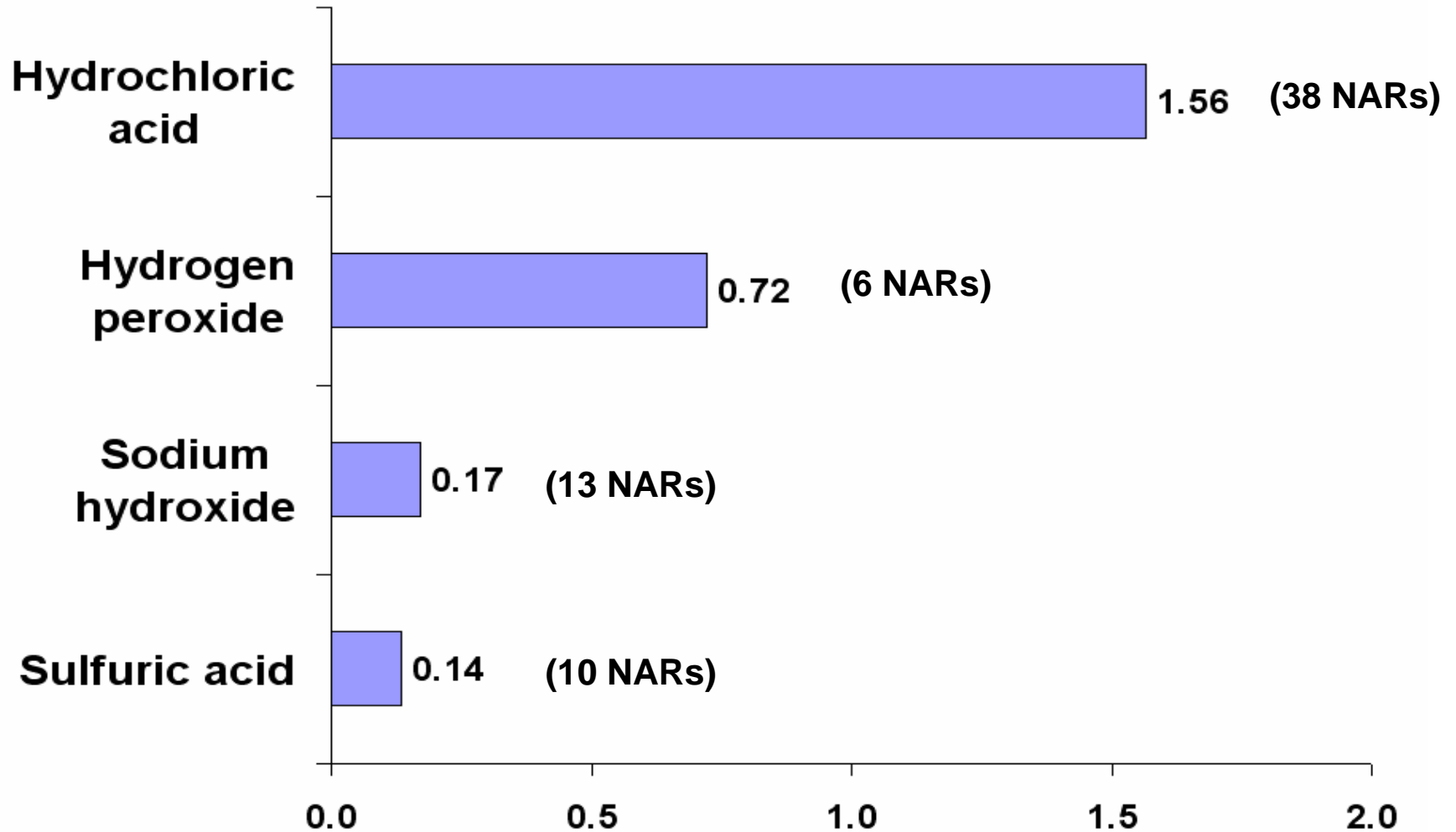
Frangible Disc NARs by Commodity

First 6 Months of 2009

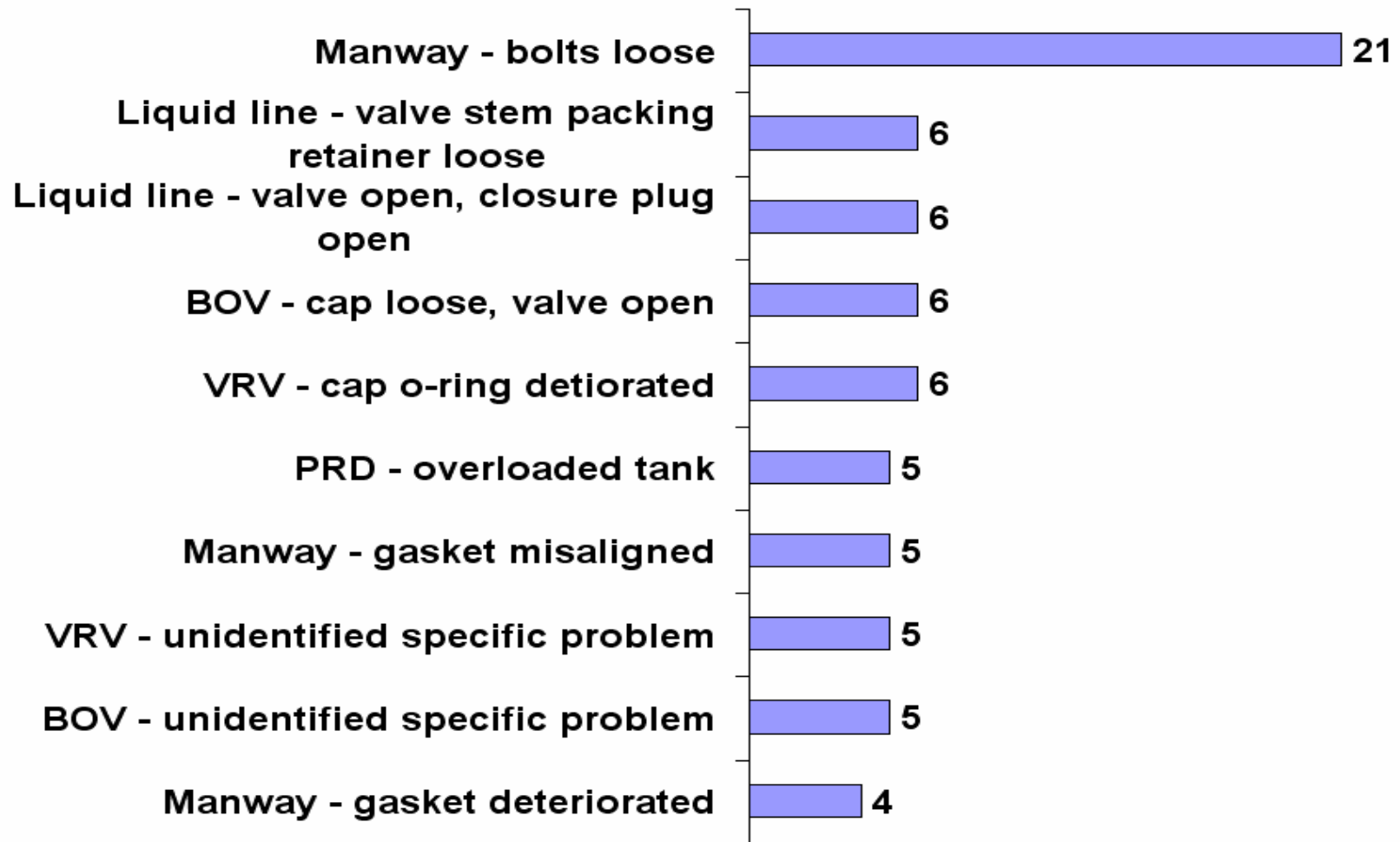


Frangible Disc NAR Rates per 1,000 Shipments -2008

Commodities with > 2 Frangible Disc NARs Shown

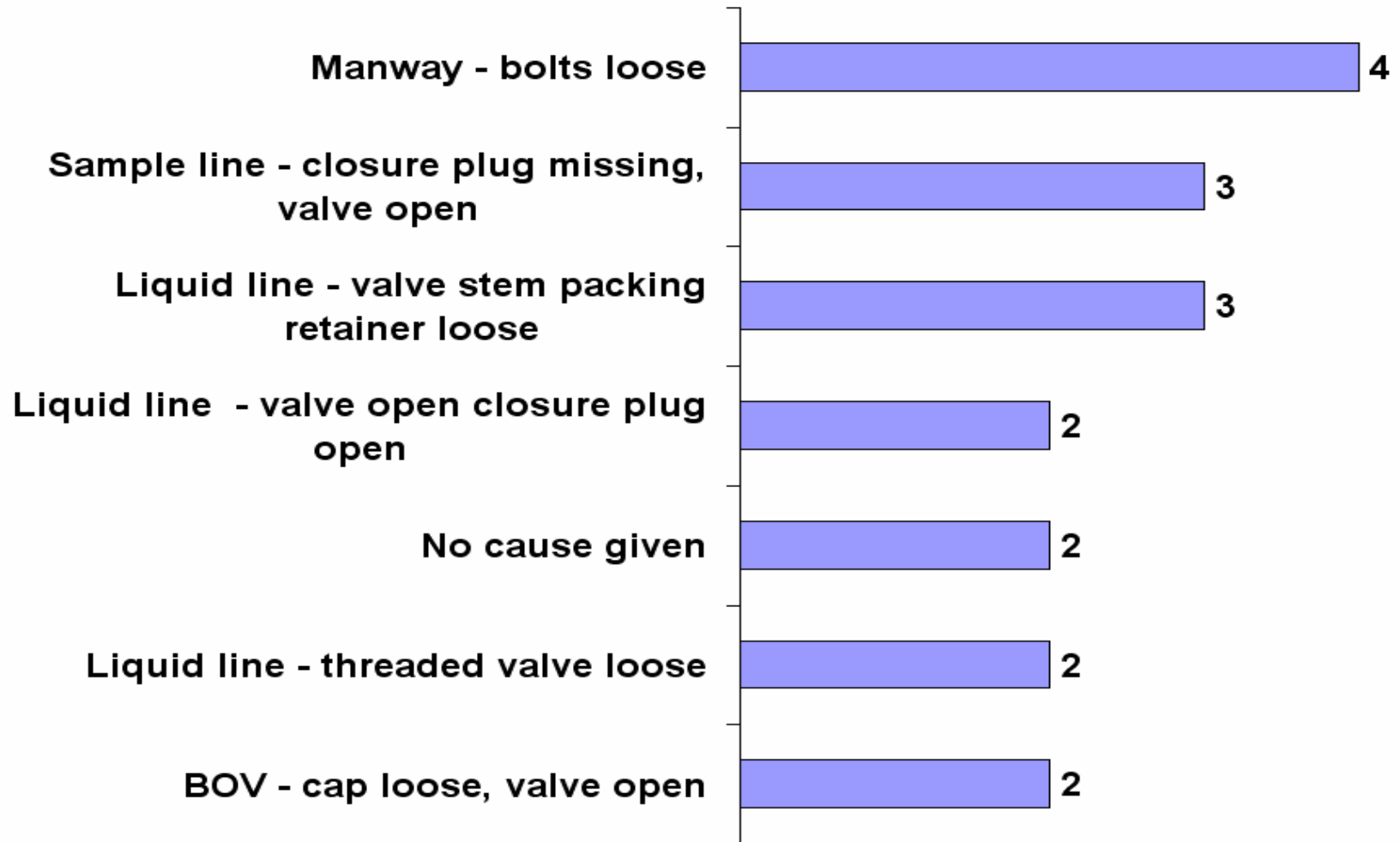


Top Specific Causes for Alcohols NOS 2008

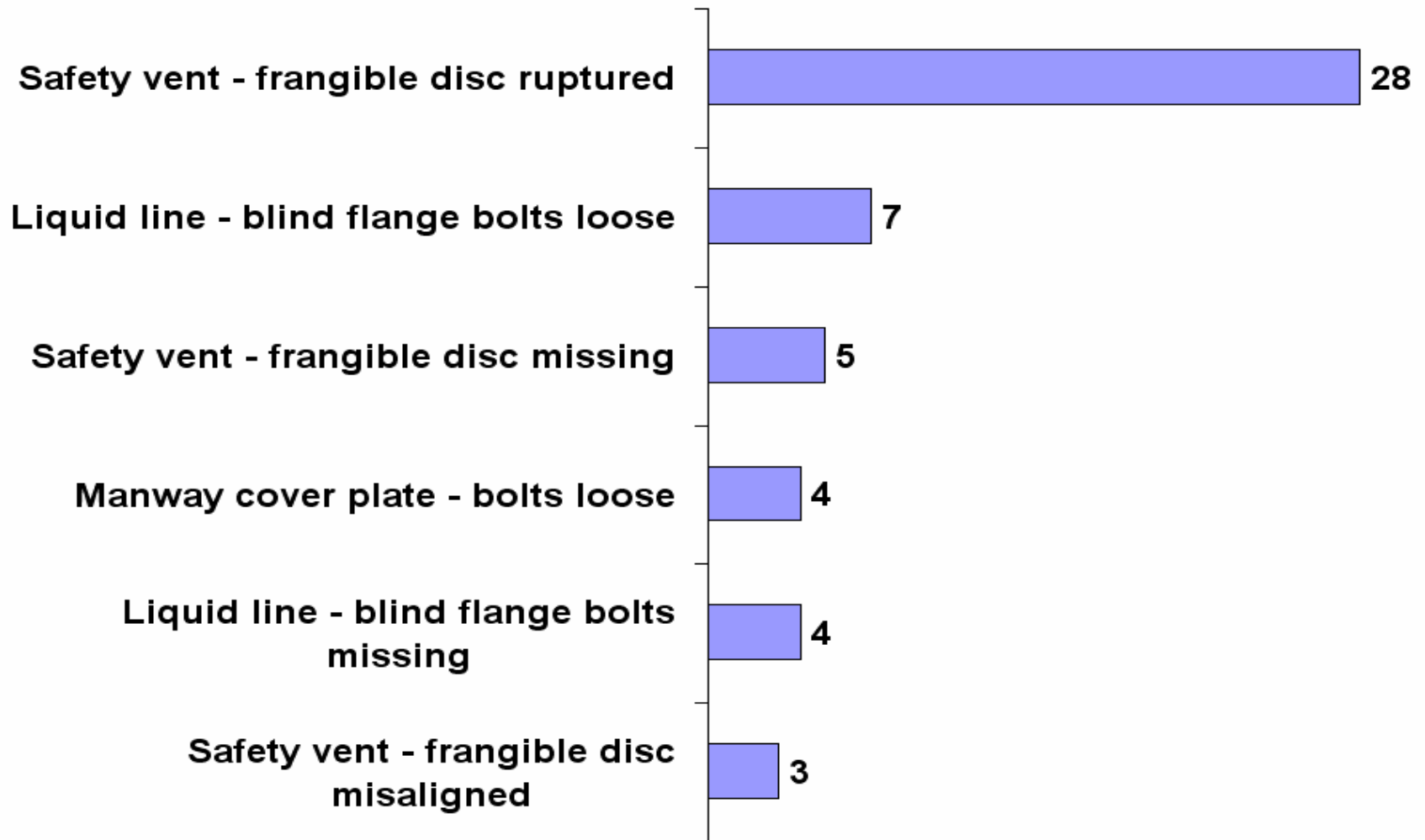


Top Specific Causes for Gasoline

2008

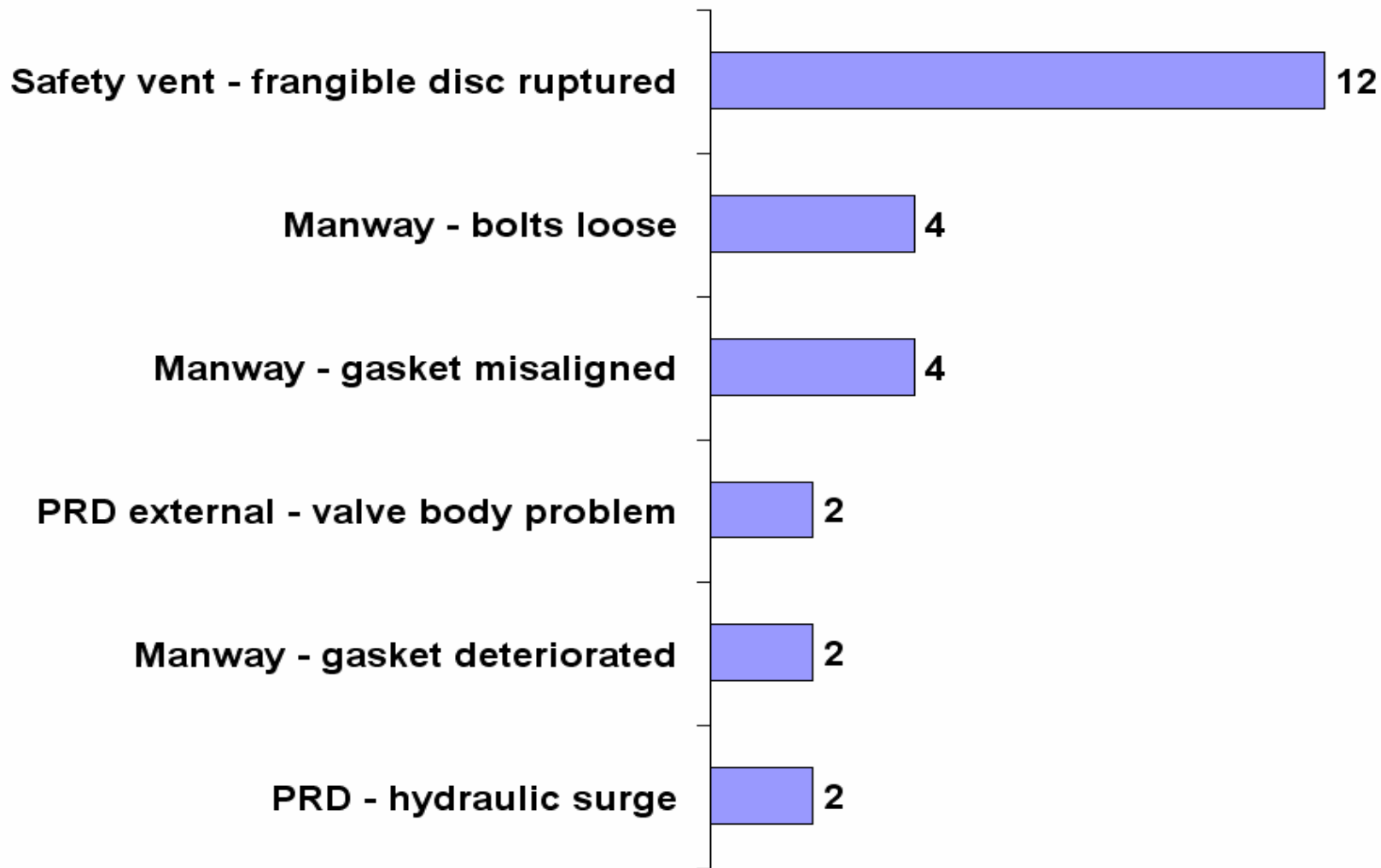


Top Specific Causes for Hydrochloric Acid Solution 2008

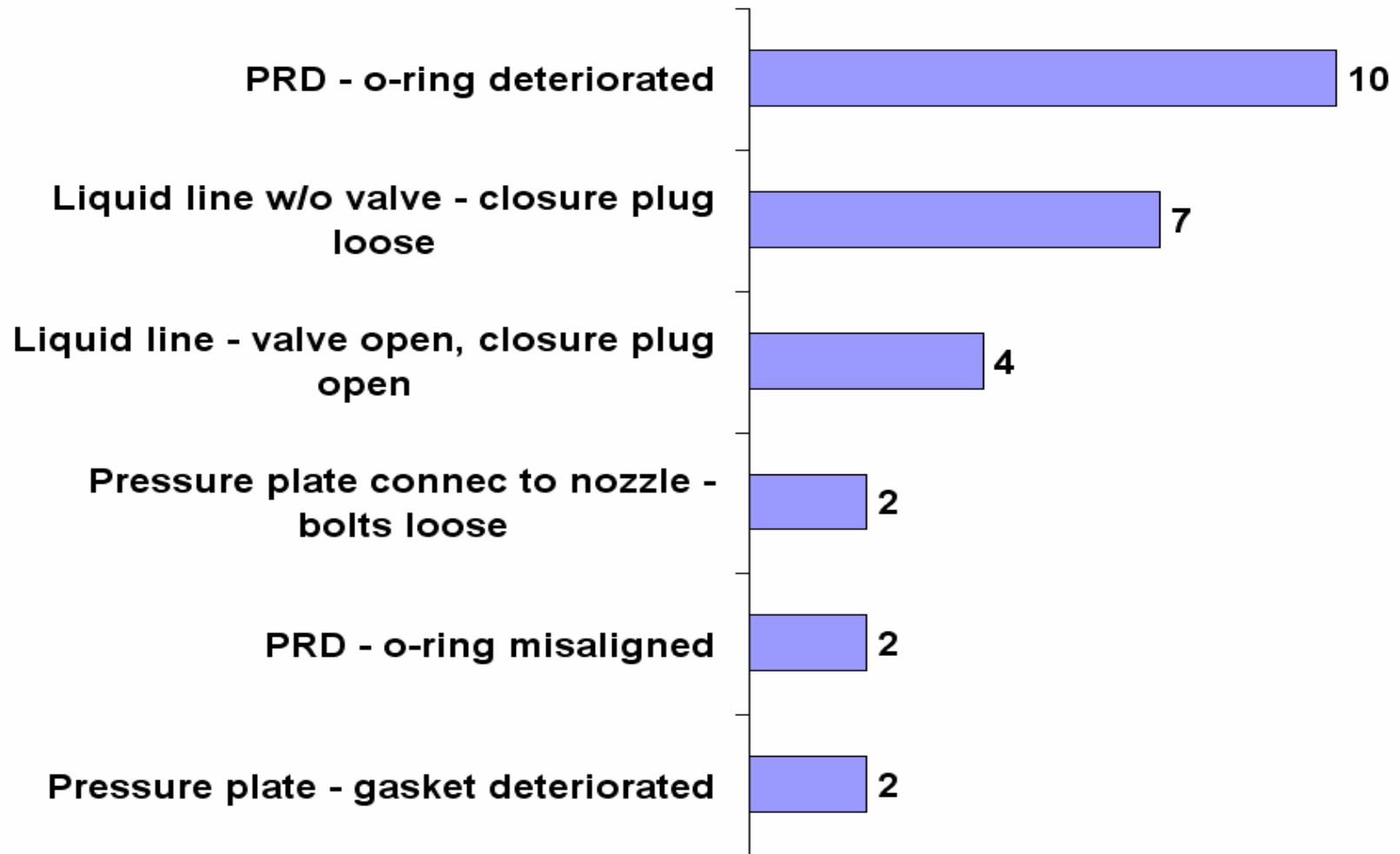


Top Specific Causes for Sodium Hydroxide Solution

2008

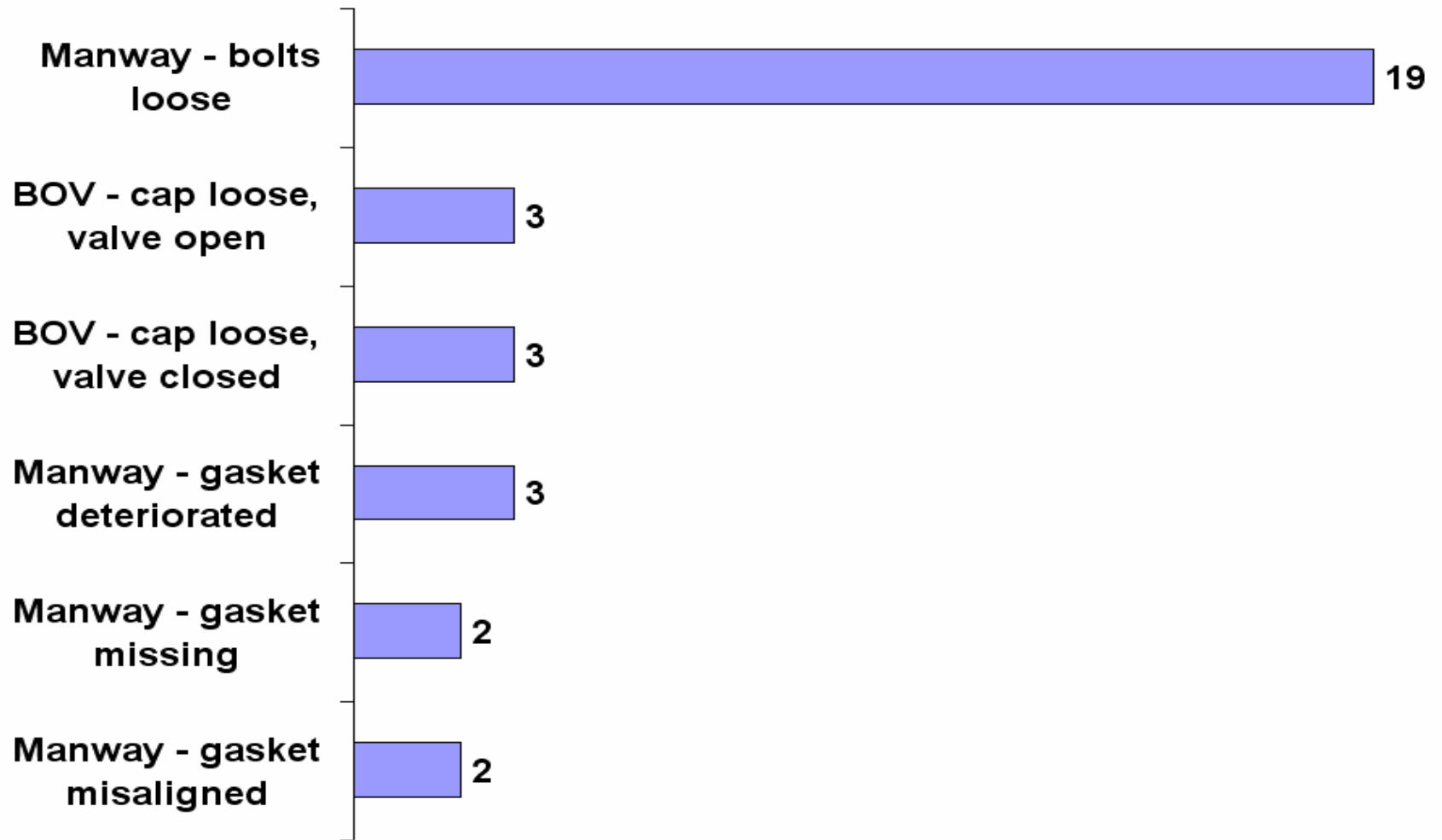


Top Specific Causes for Anhydrous Ammonia 2008



Top Specific Causes for Fuel Oils

2008



Top Specific Causes for Liquefied Petroleum Gases 2008

