

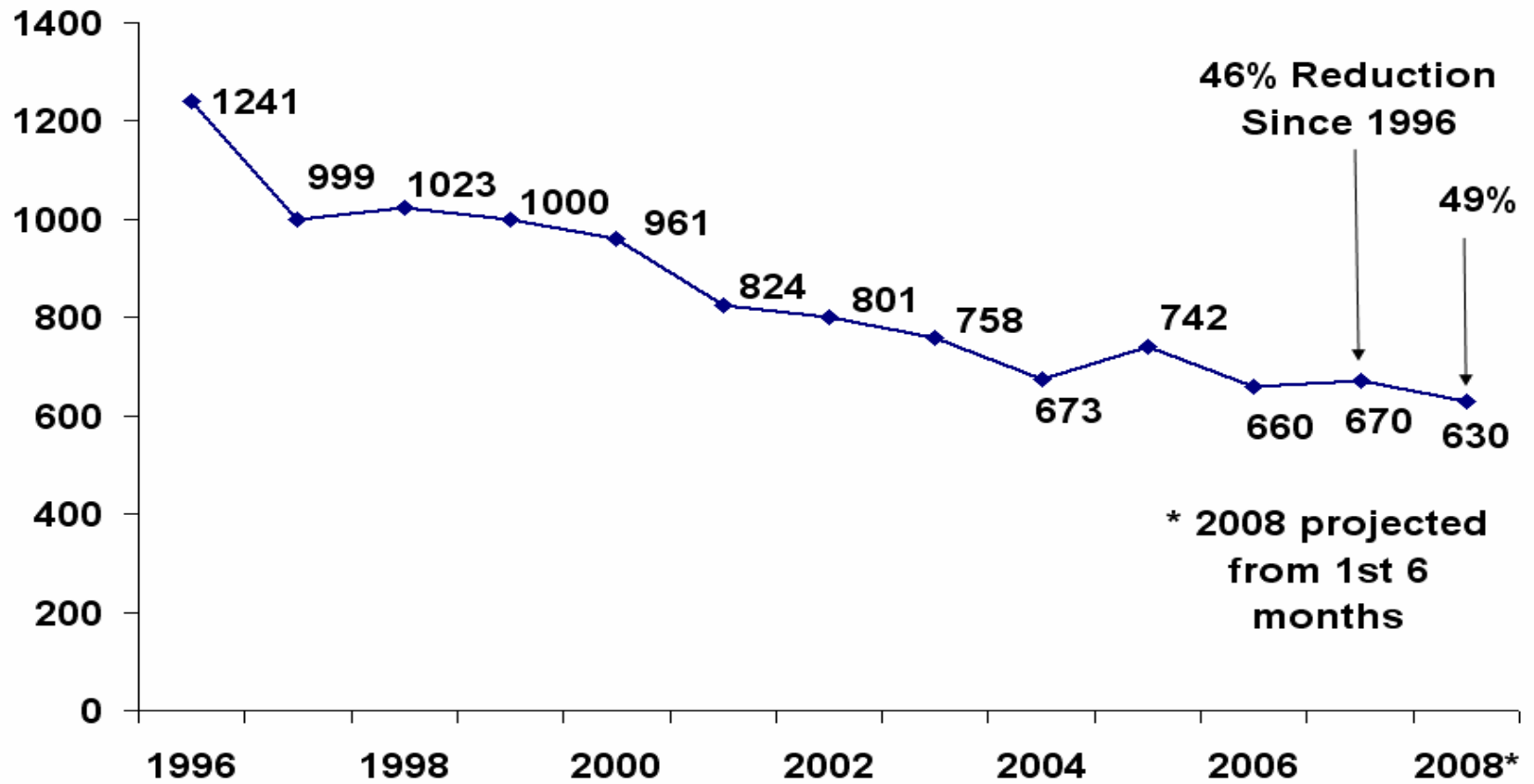
NAR Data Breakdowns
2007
through 7 Months of 2008
October 15, 2008

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

Todd Treichel
ttreichel@aar.org

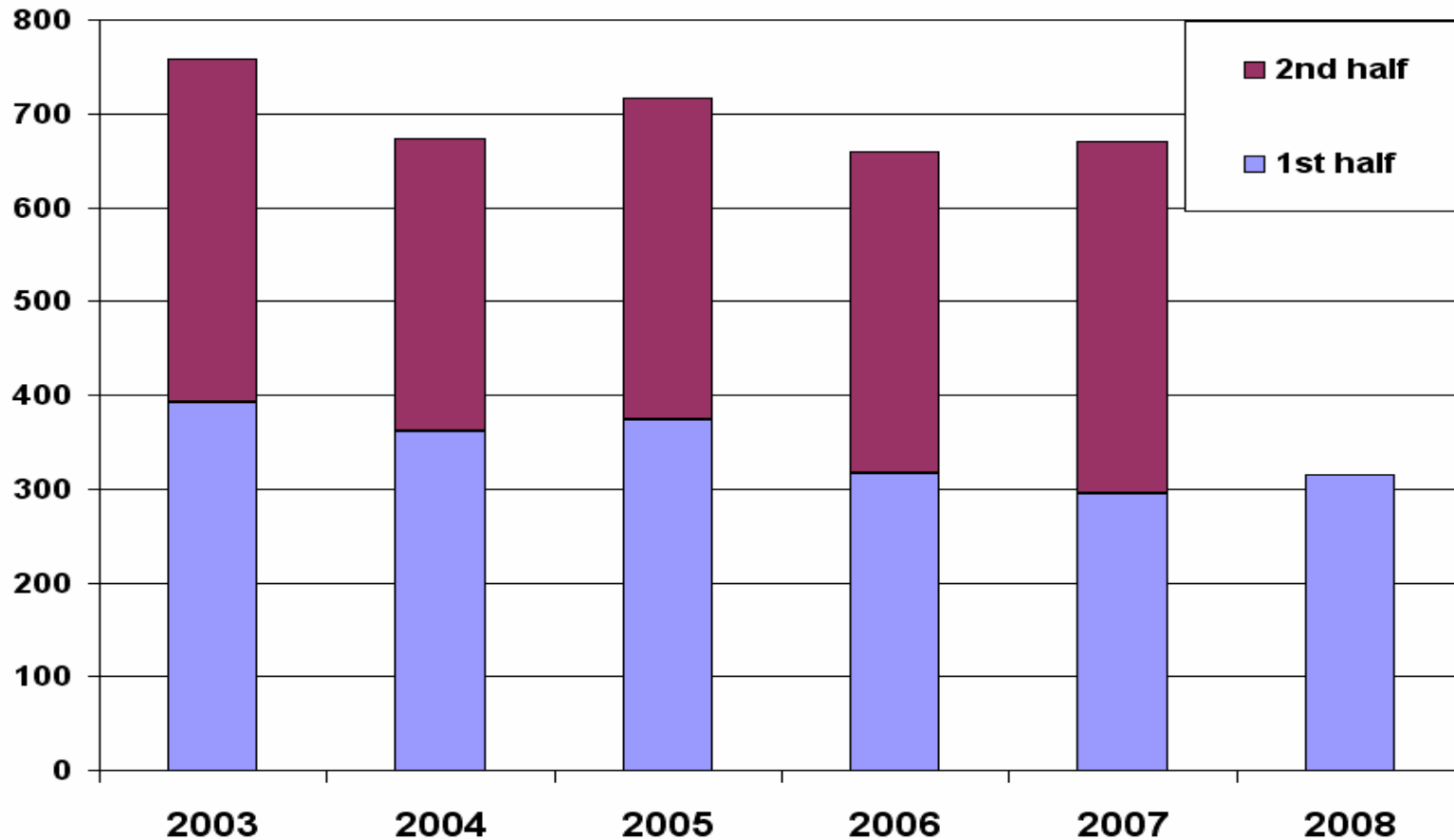
NARs by Year

US & Canada



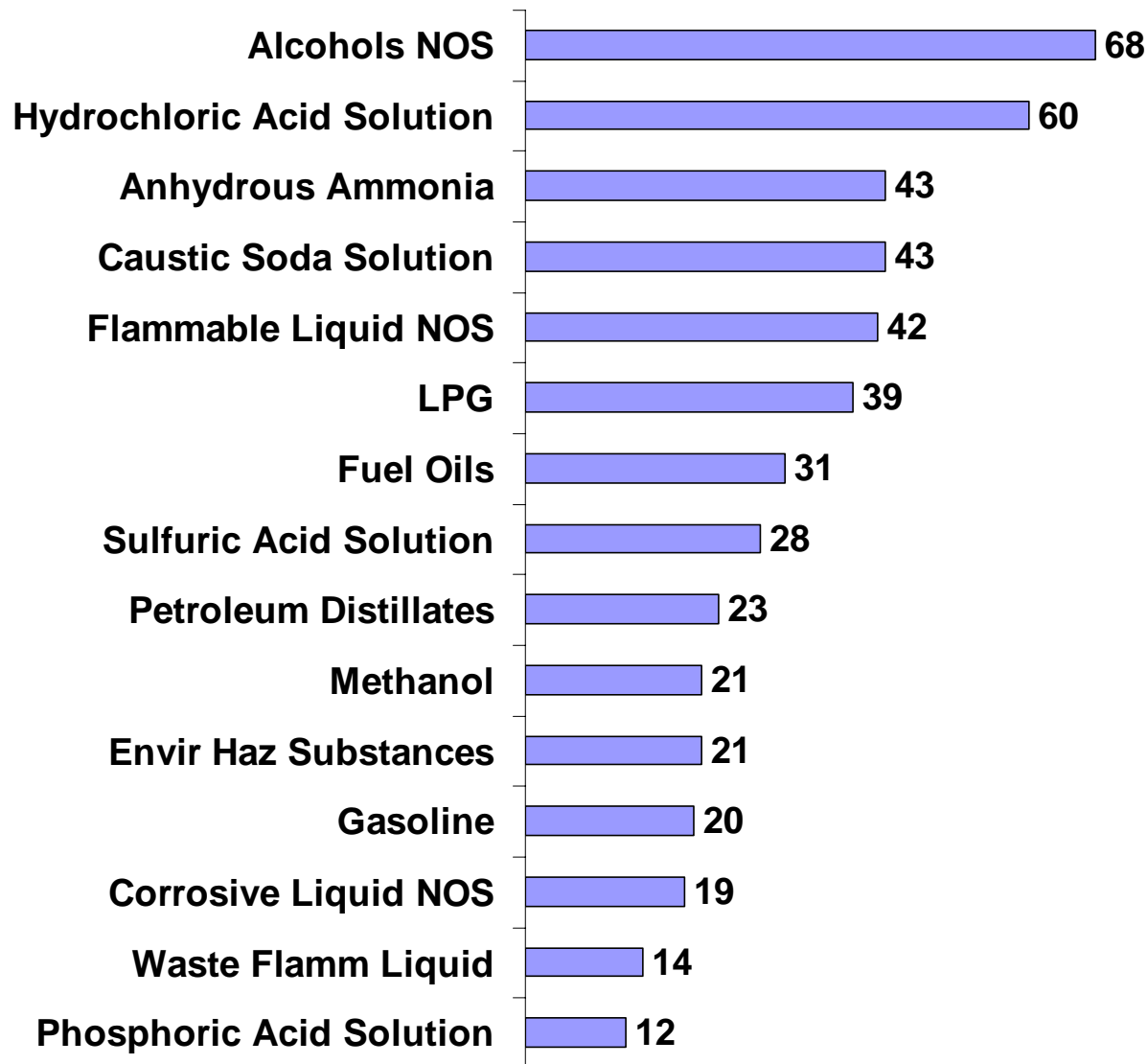
2008 vs. Previous Years

1st half slightly up, but projected year's total down

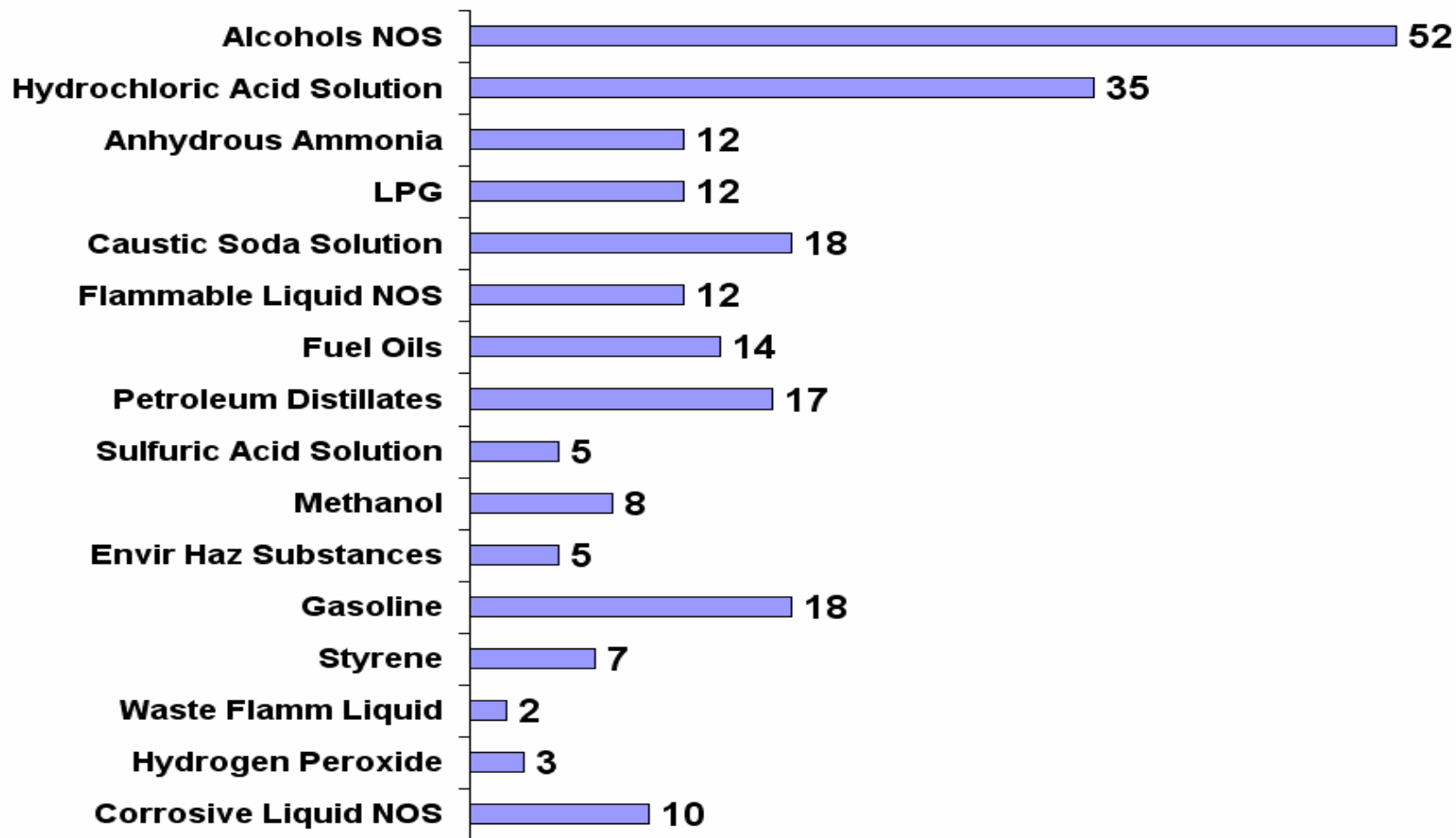


2003-2007, 1,740 NARs in 1st half of year, 1,737 in 2nd half ~ 50/50

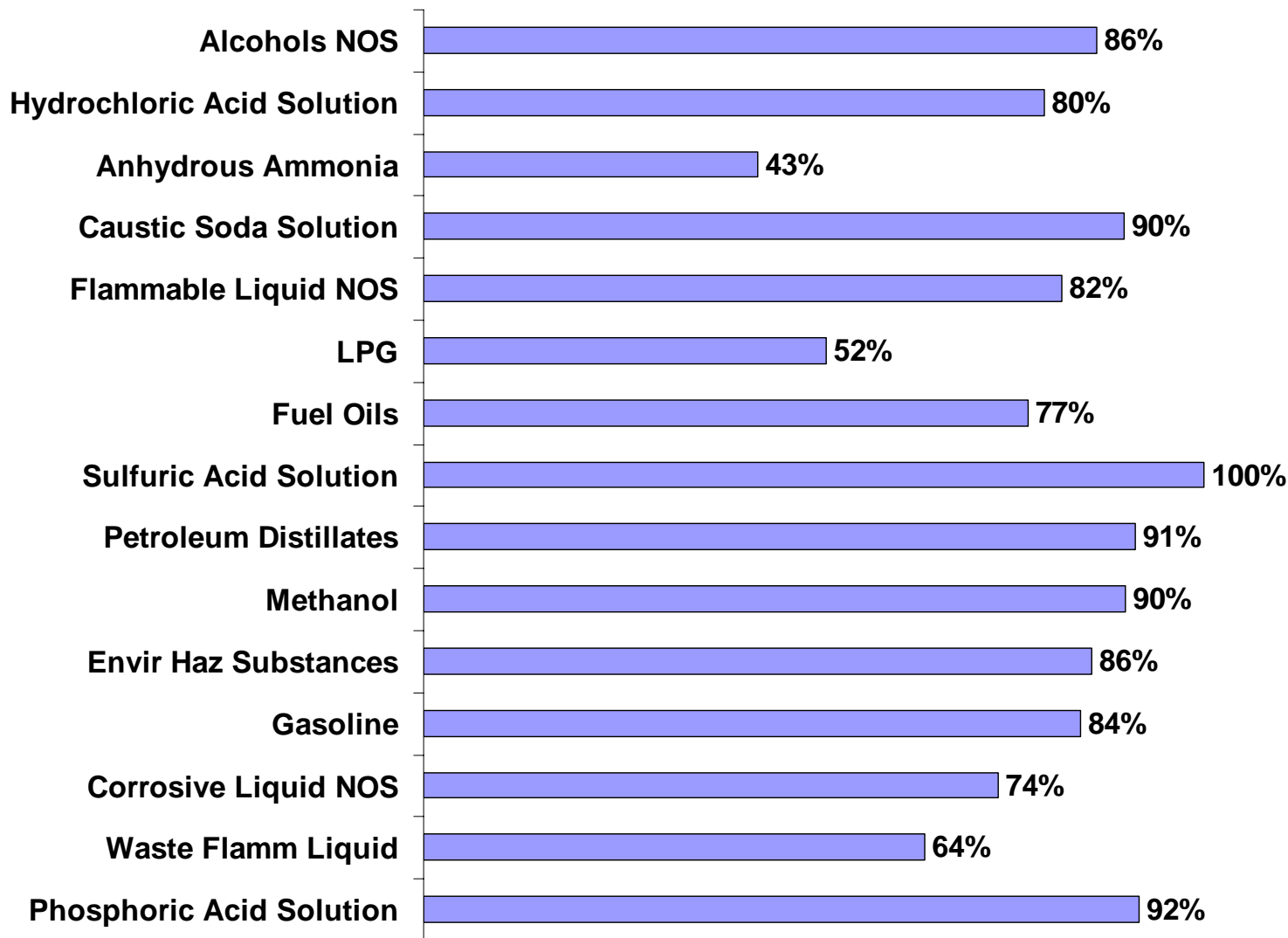
Top Commodities for NARs 2007



Top Commodities for NARs 2008 1st 7 months

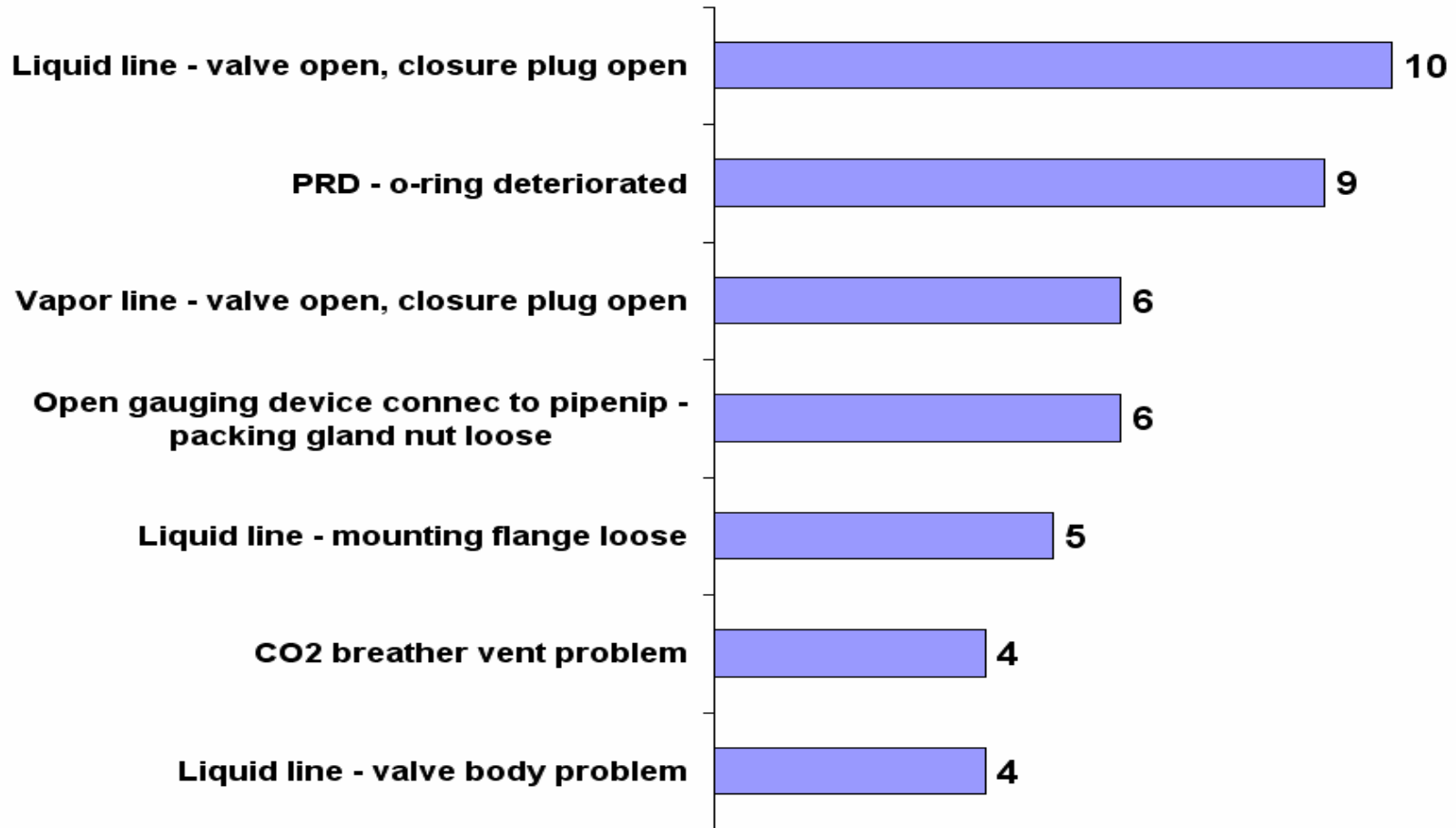


Percent of NARs Occurring on Loaded Trips



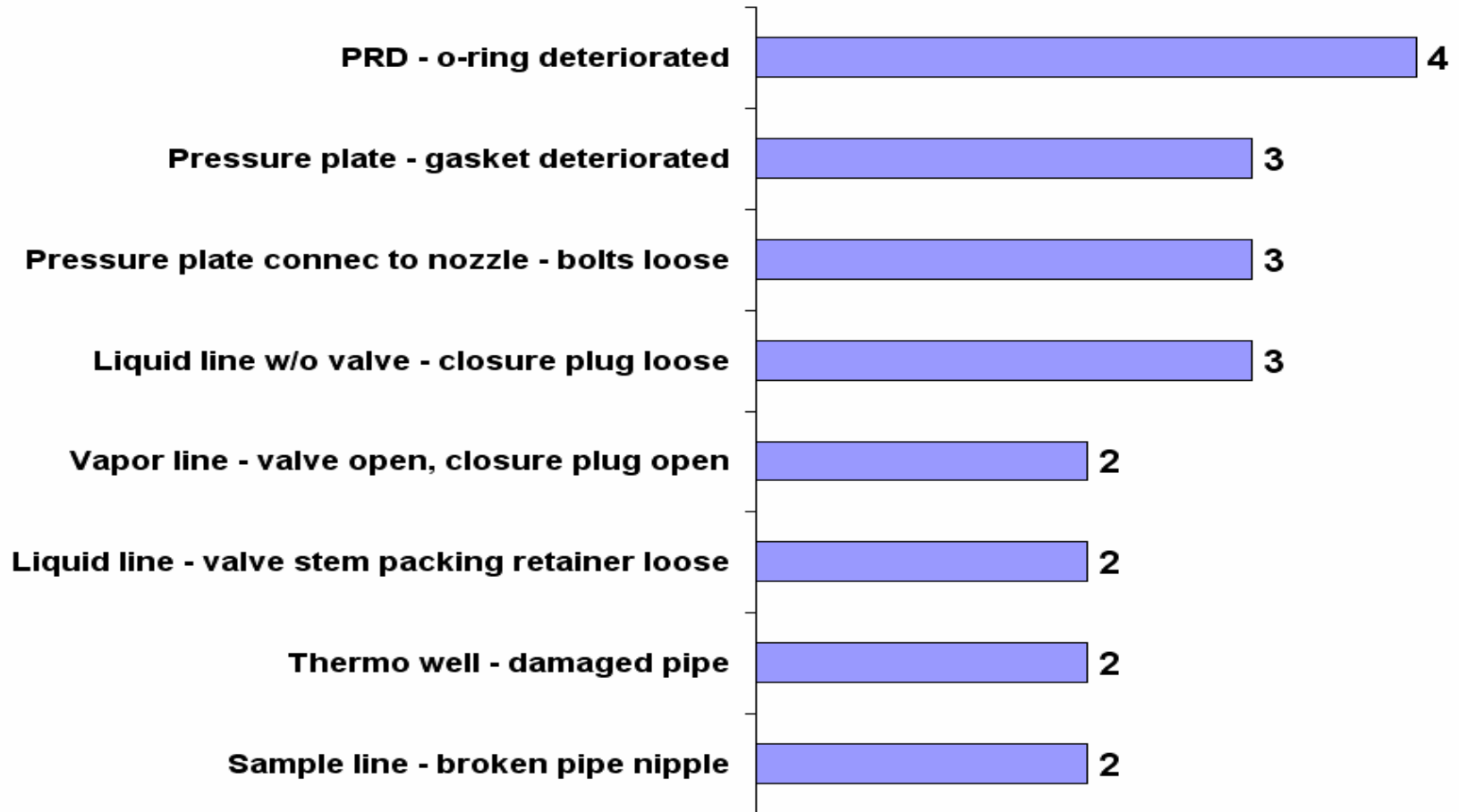
Top Specific Causes for Pressure Cars

2007



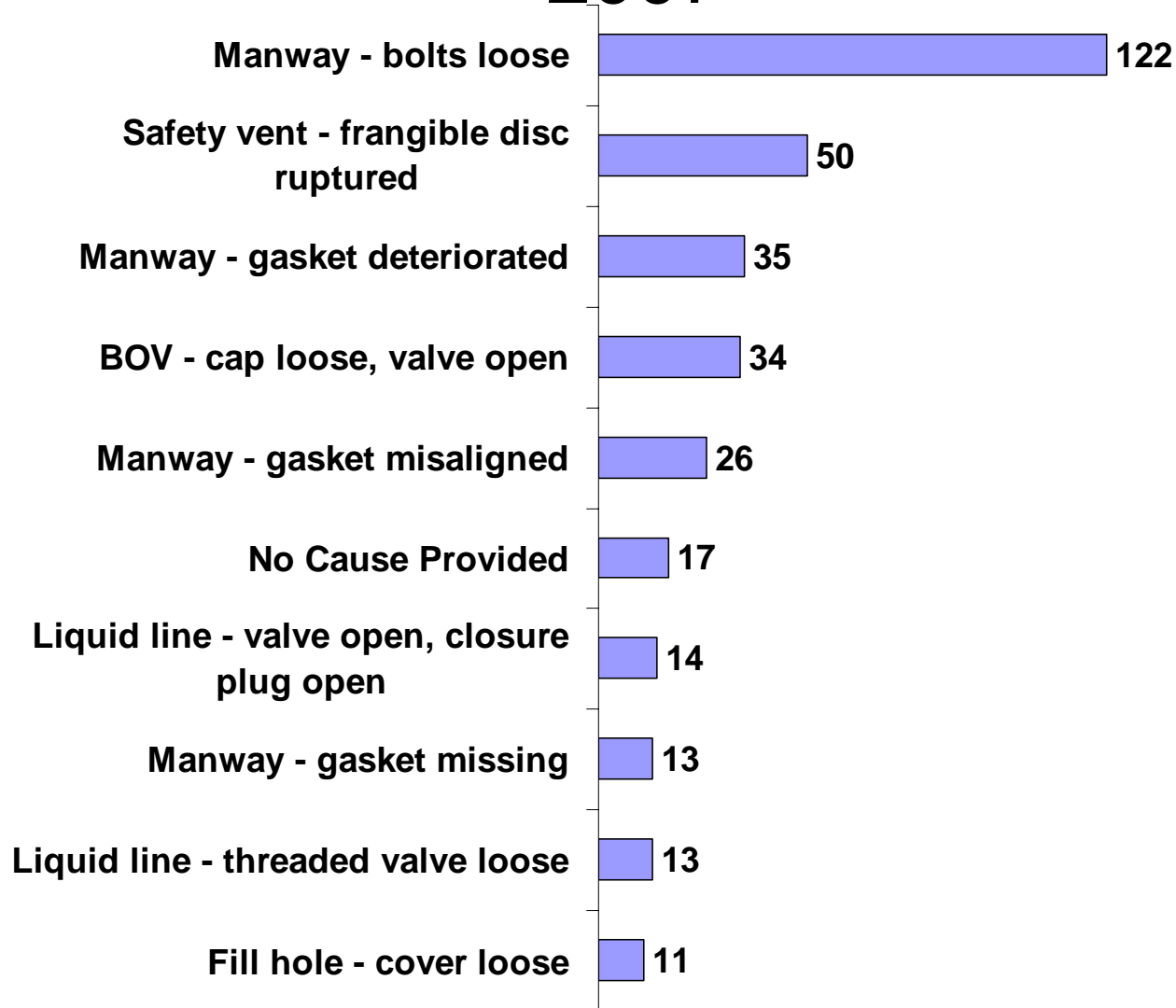
Top Specific Causes for Pressure Cars

2008 1st 7 months

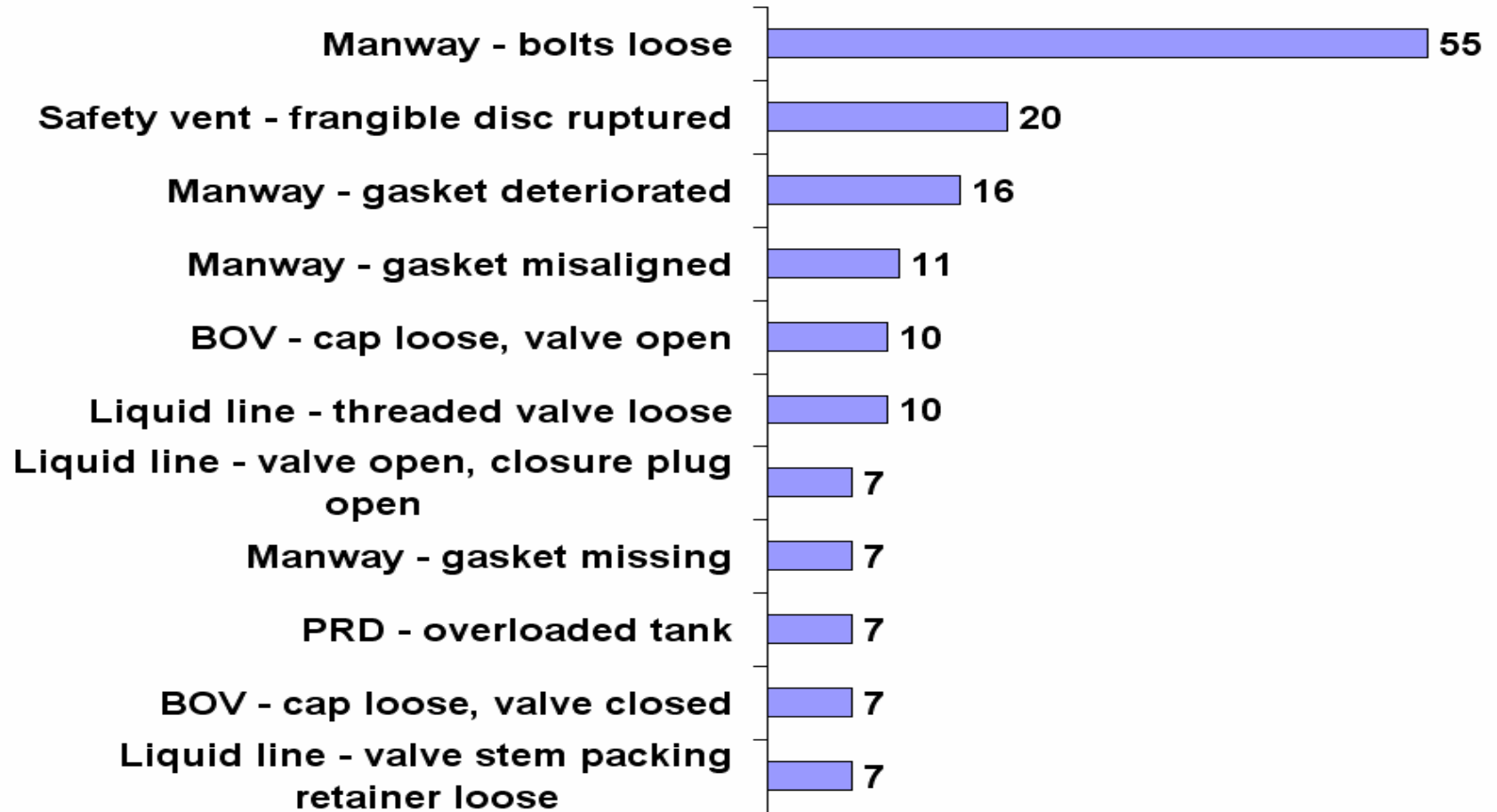


Top Specific Causes for Nonpressure Cars

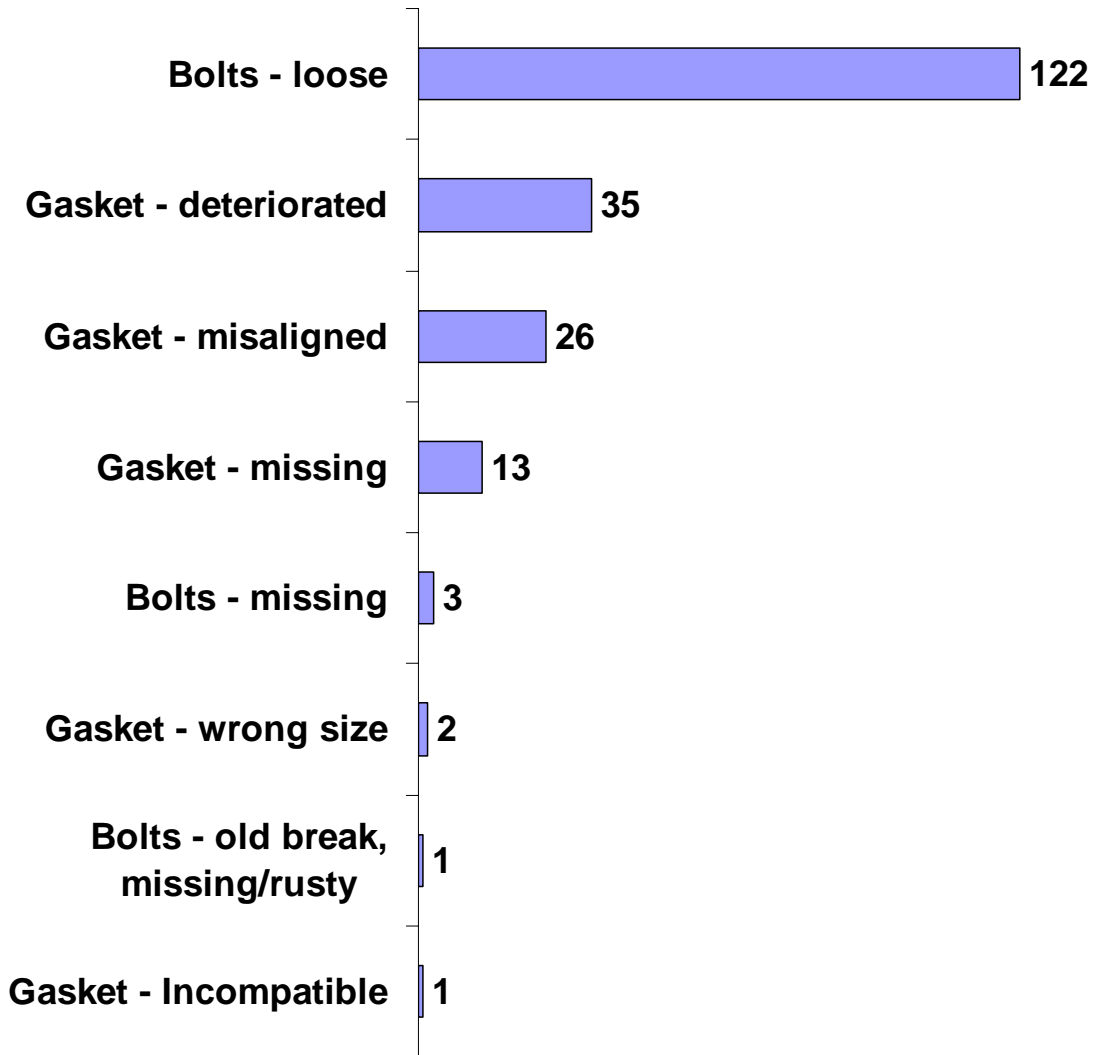
2007



Top Specific Causes for Nonpressure Cars 2008 1st 7 months

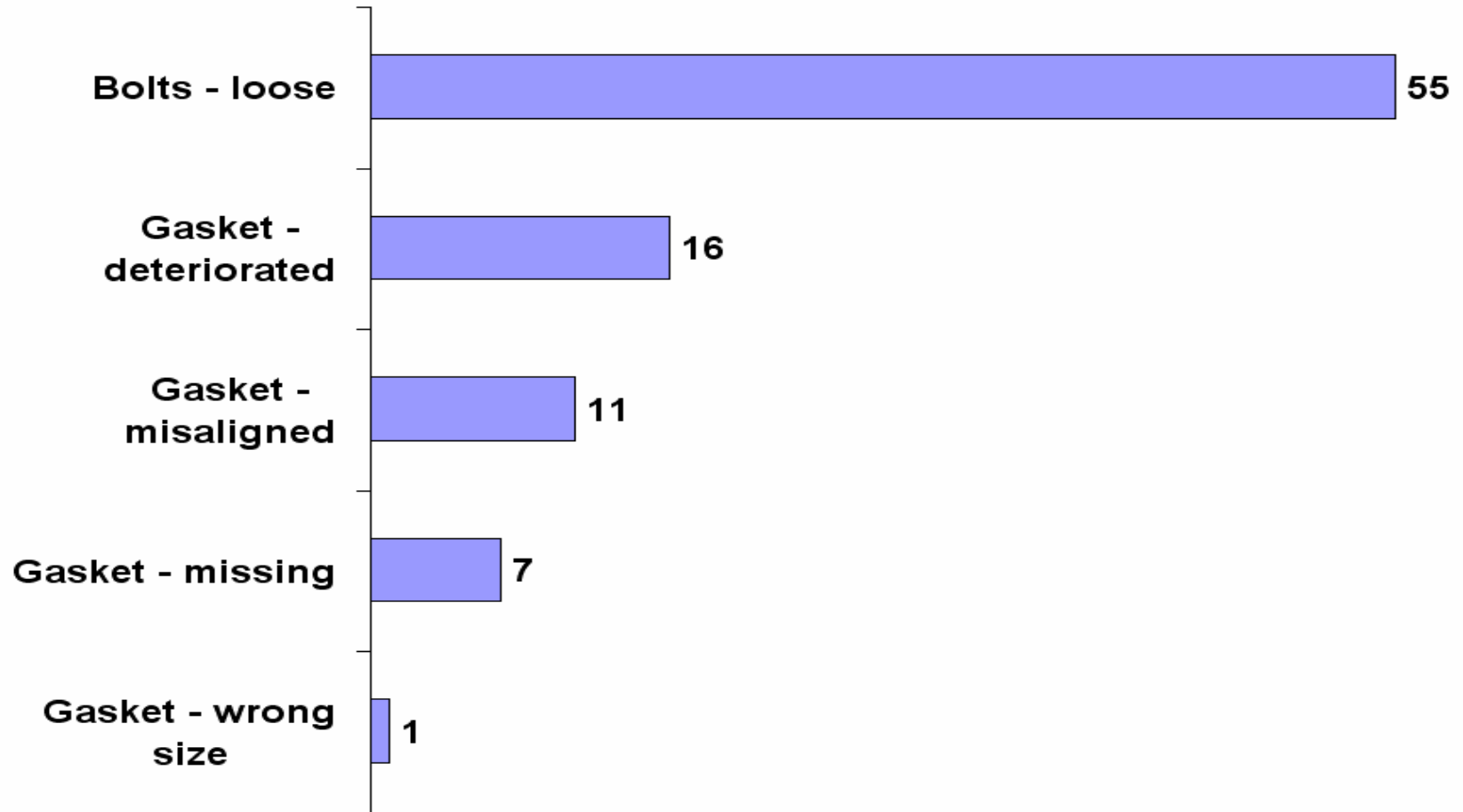


Manway Causes for Nonpressure Cars 2007



Manway Causes for Nonpressure Cars

2008 1st 7 mos

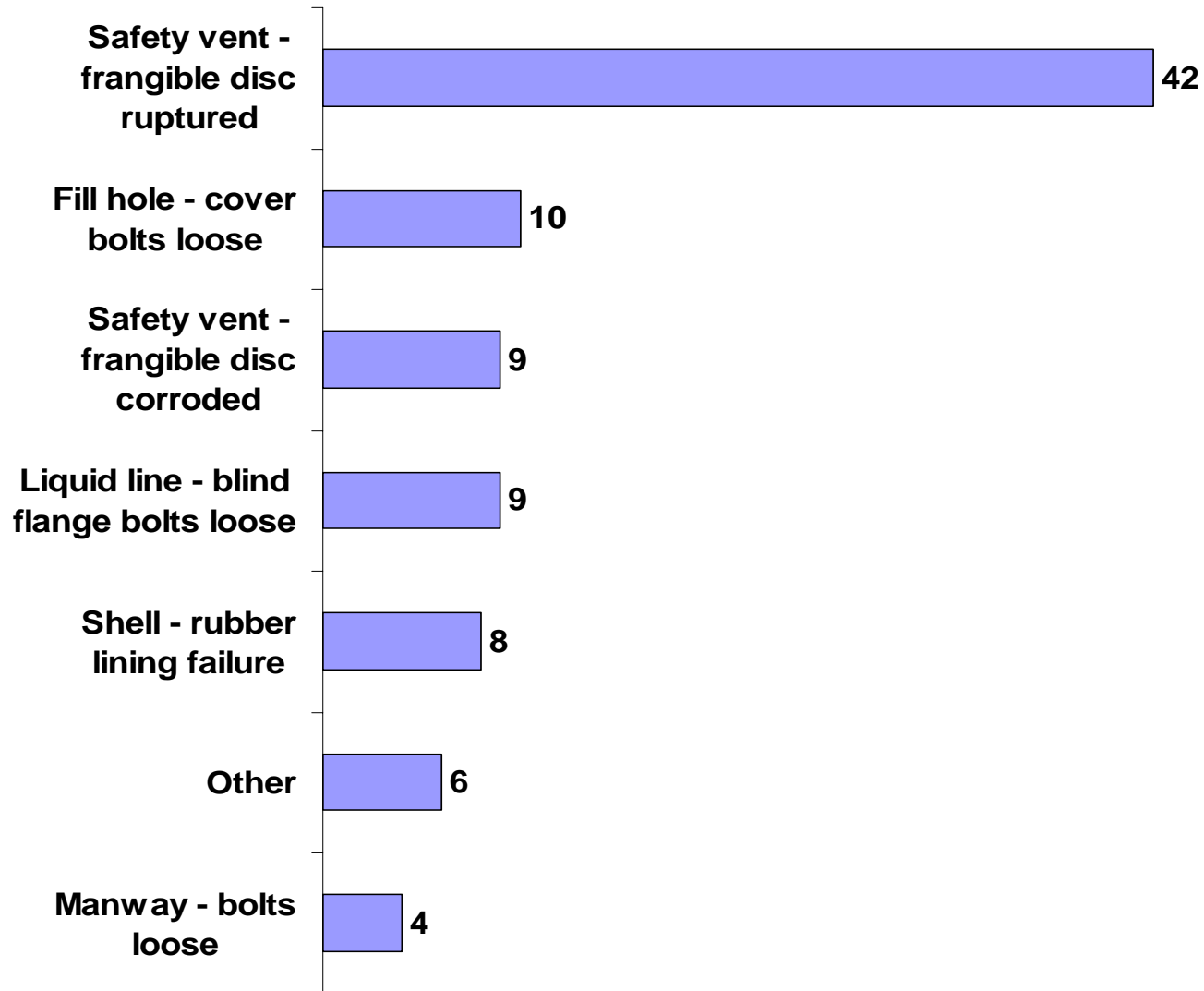


PRV O-ring Causes

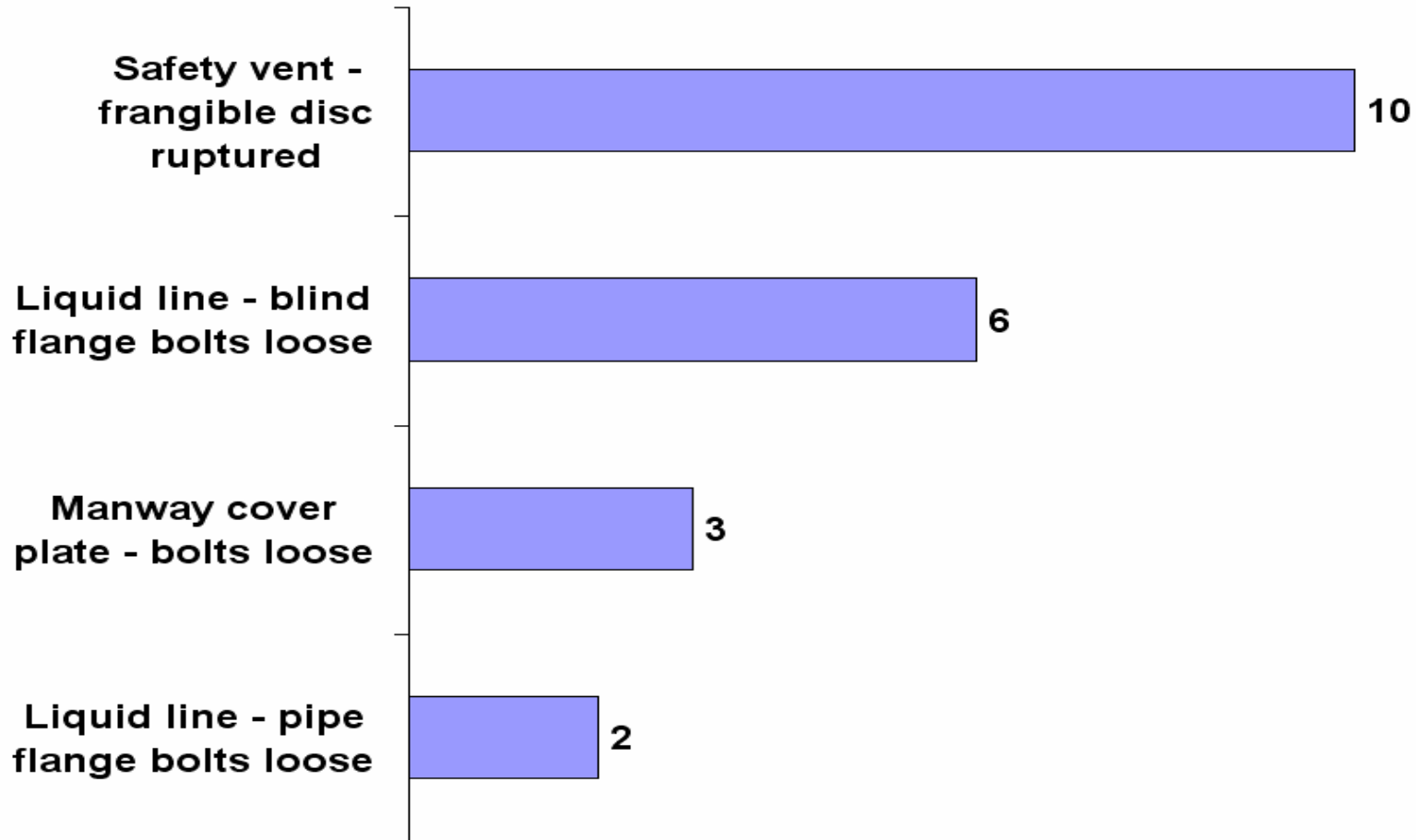
2003-2007 vs 2008 1st 7 months

	2003-05 avg	2006	2007	2008 7 mos
Deteriorated - car spec unk	0	0	1	0
Deteriorated - nonpressure car	2	1	1	0
Deteriorated - pressure car	16	14	8	4
Incompatible - nonpressure car	1	0	0	0
Incompatible - pressure car	0	1	0	0
Misaligned - nonpressure car	1	1	0	0
Misaligned - pressure car	2	5	2	1
New codes with more detail	n/a	n/a	0	0
Total	21	22	12	5

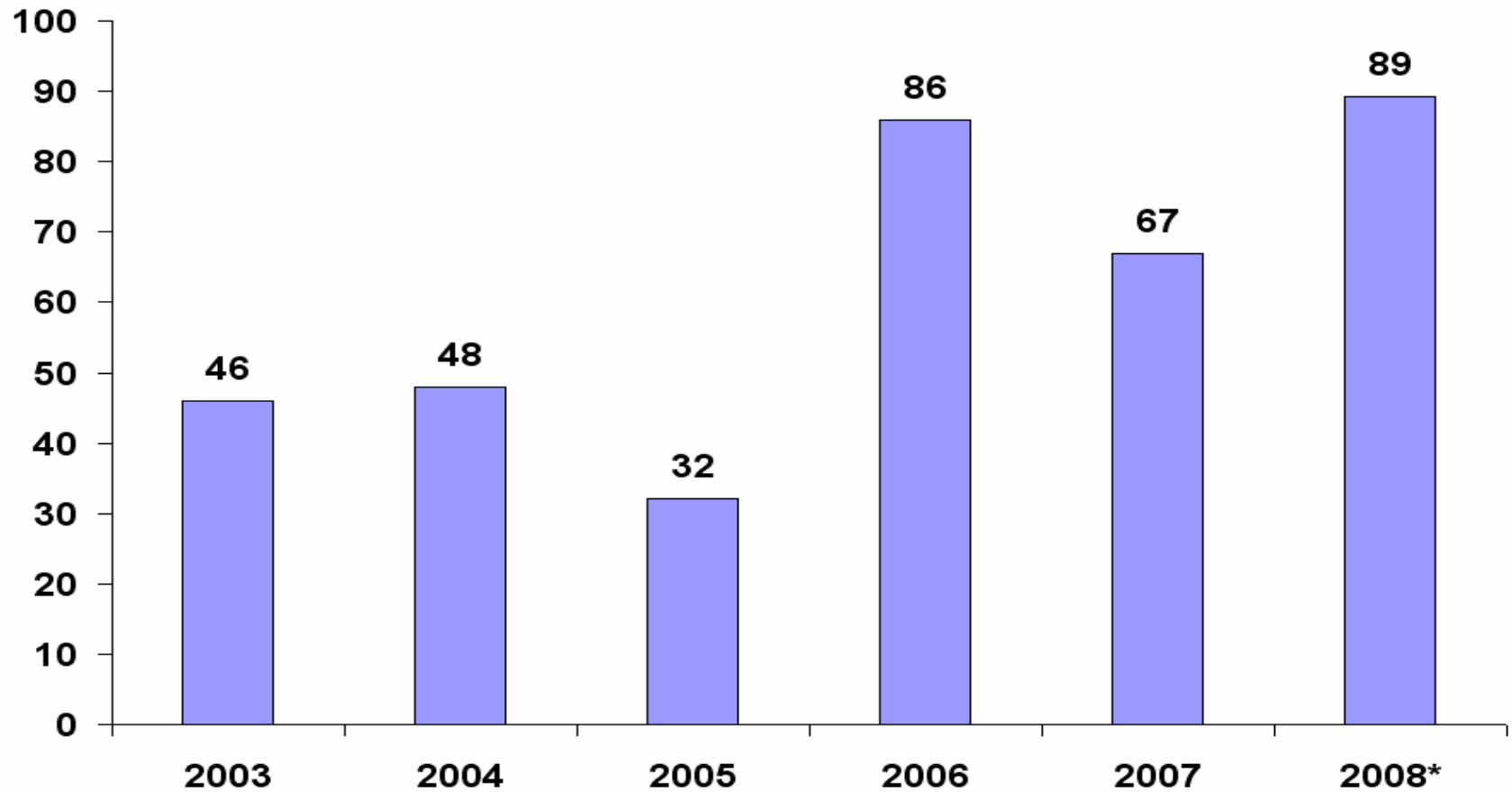
Top Specific Causes for Hydrochloric Acid Solution 2005-2007



Top Specific Causes for Hydrochloric Acid Solution 2008 1st 7 months



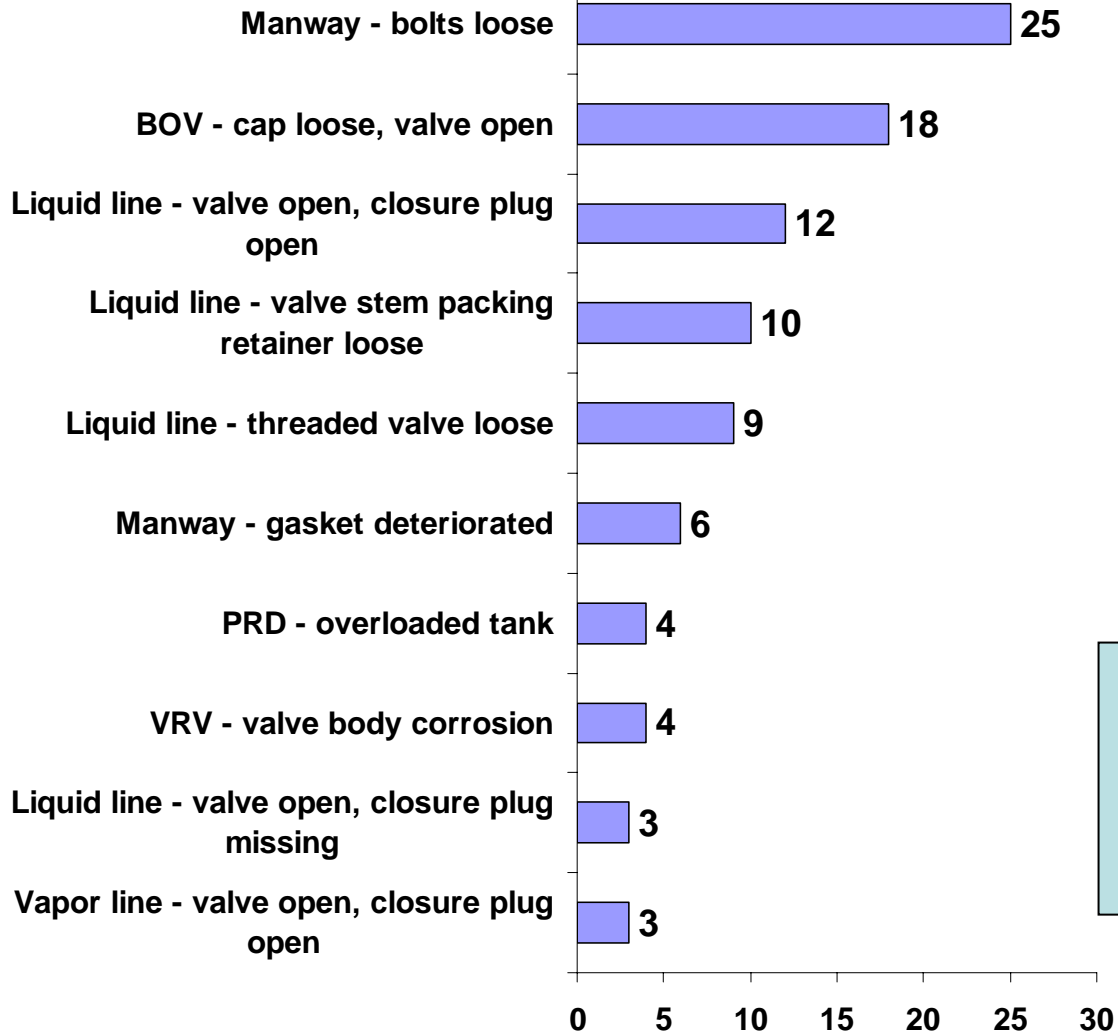
NAR Trend for Alcohols NOS



* 2008 projected from 1st 7 months

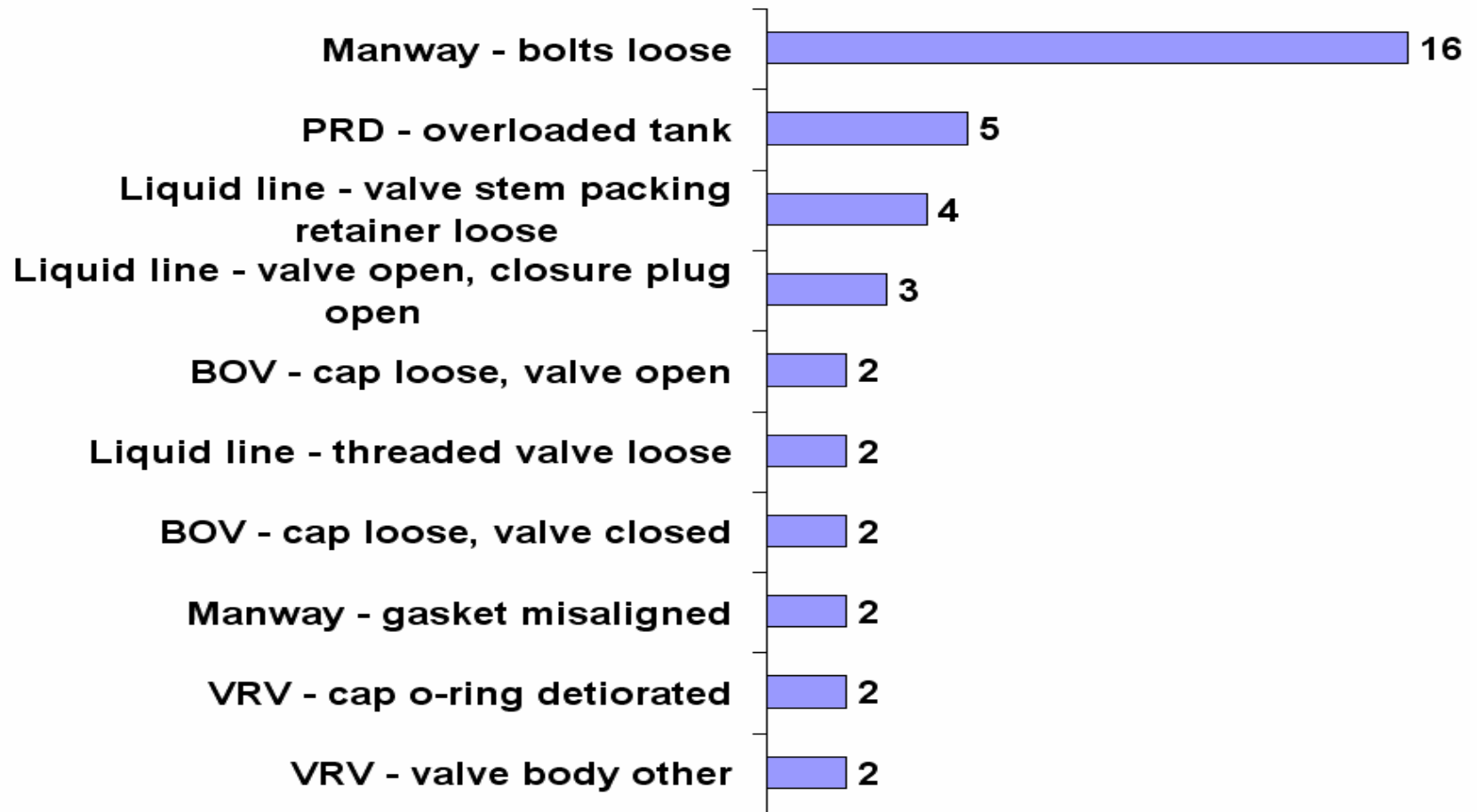
Top Specific Causes for Alcohols NOS

2005-2007

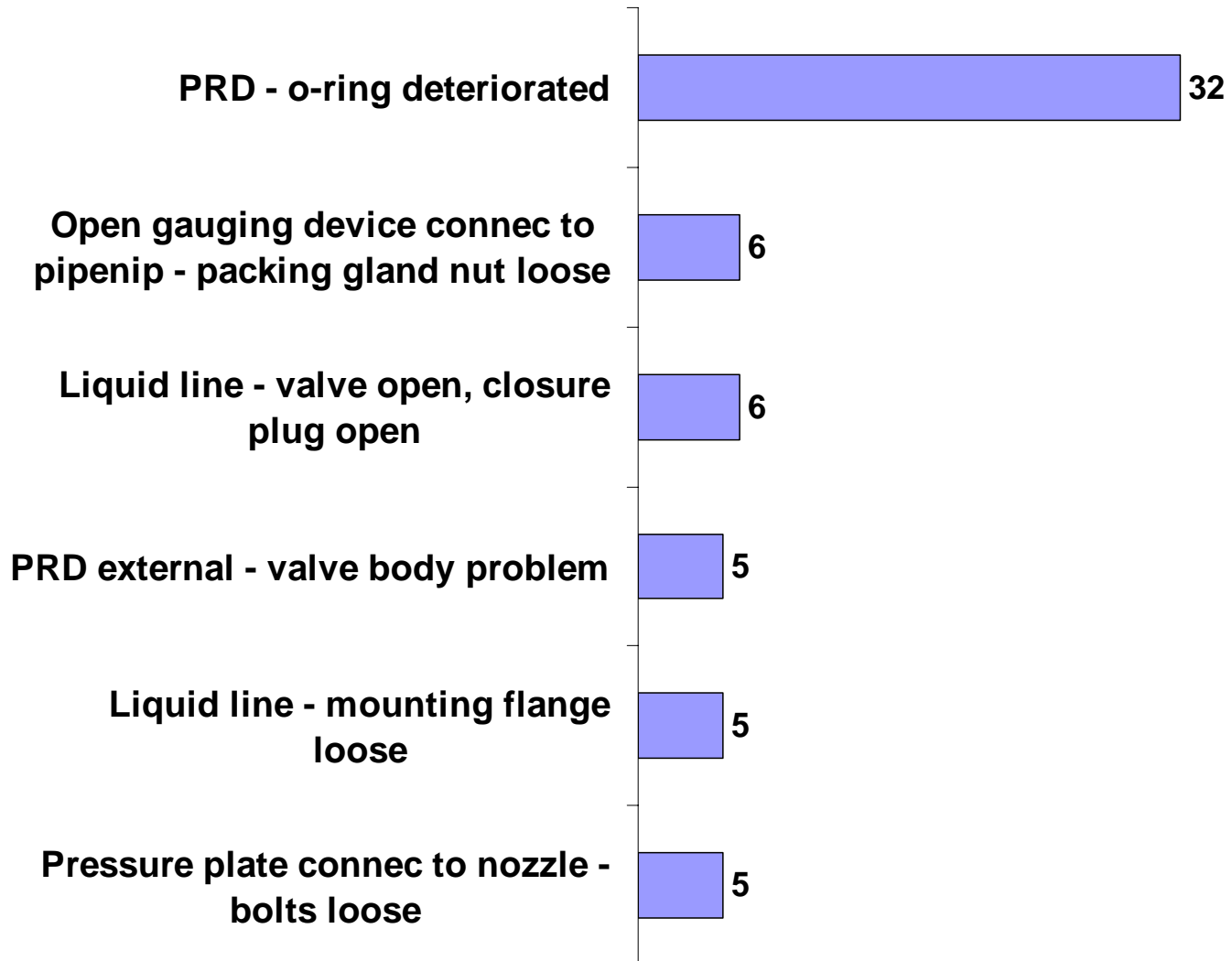


Many causes with 2 NARs – one of the largest spreads of different causes

Top Specific Causes for Alcohols NOS 2008 1st 7 months

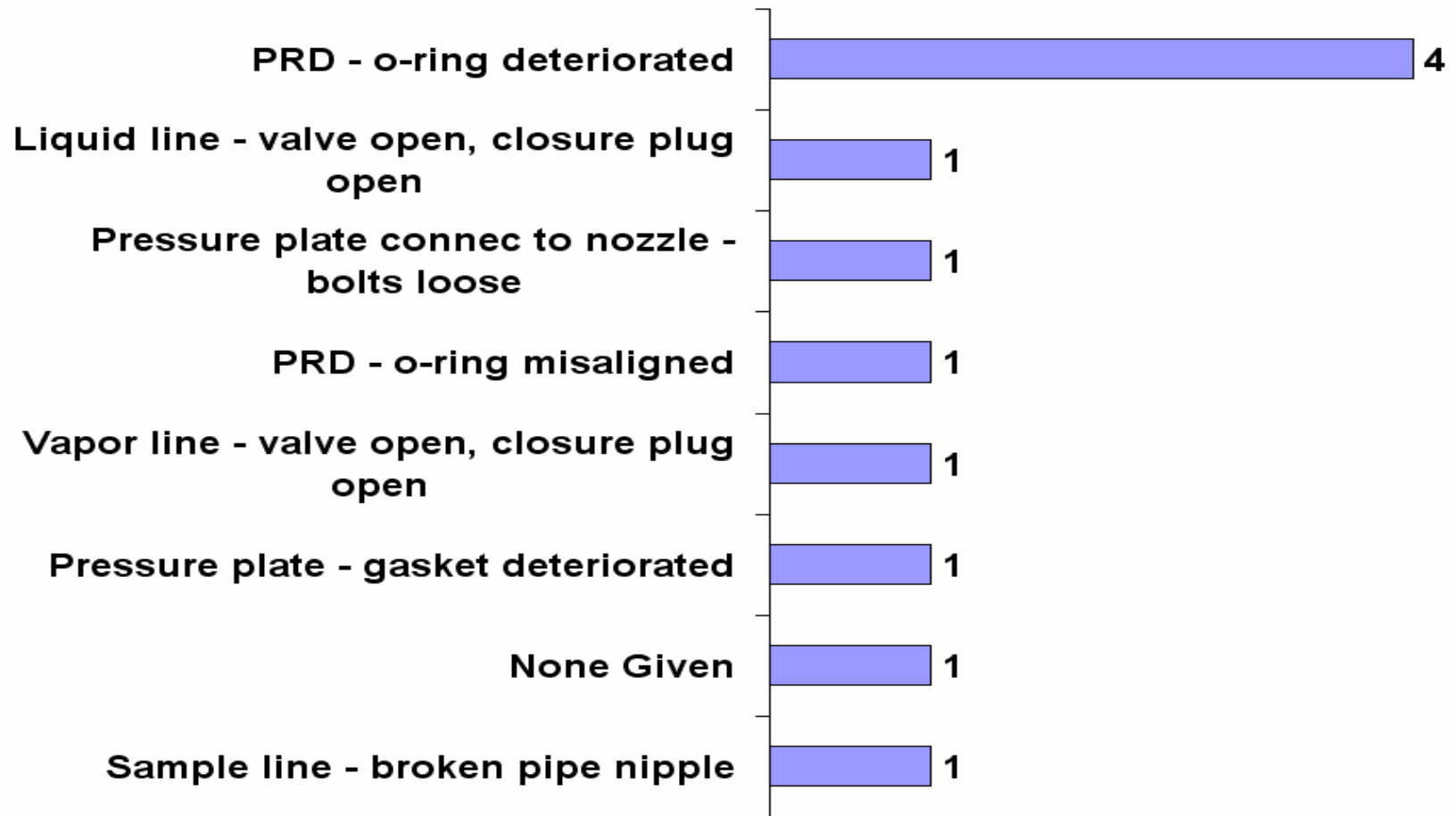


Top Specific Causes for Anhydrous Ammonia 2005-2007

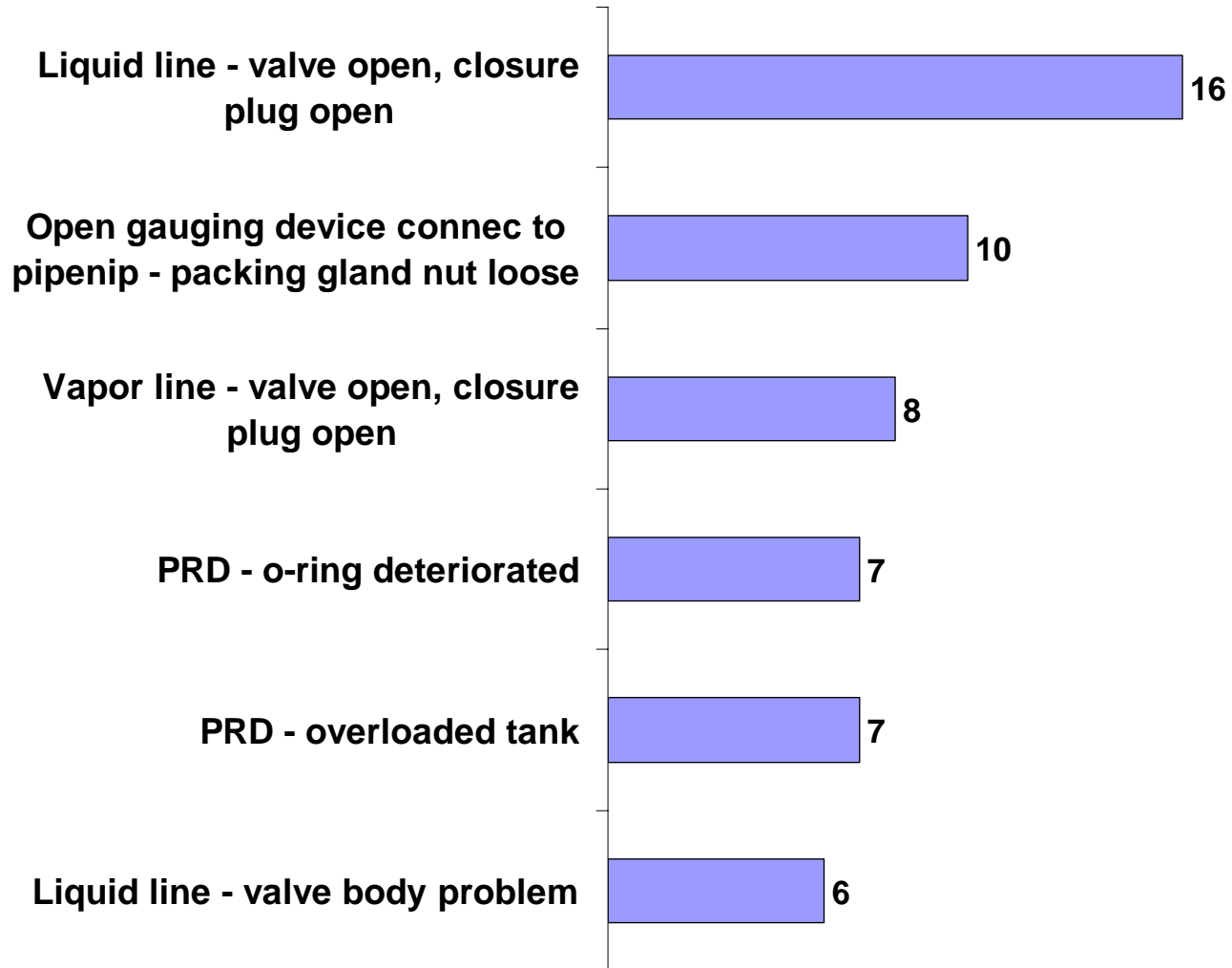


Top Specific Causes for Anhydrous Ammonia

2008 1st 7 months

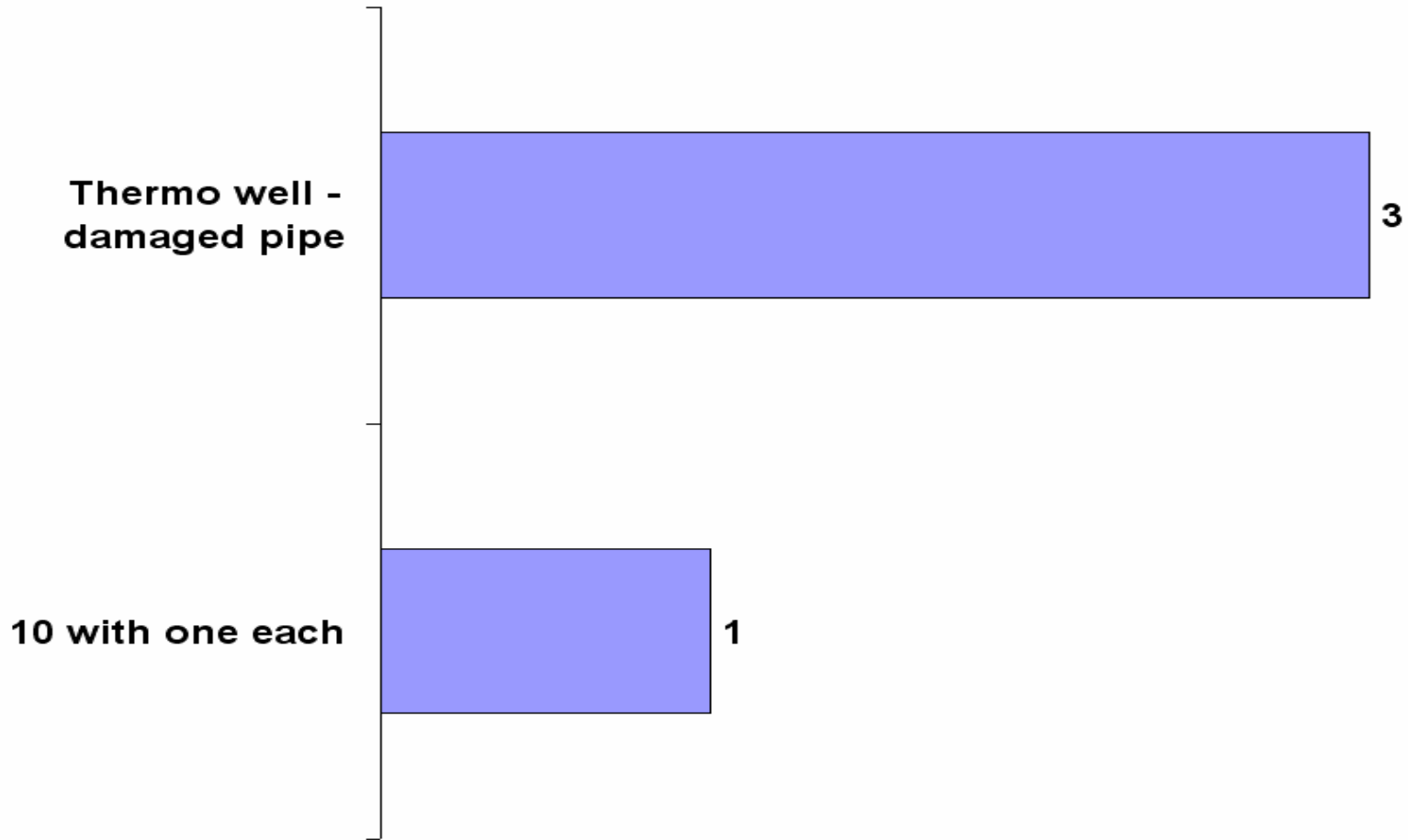


Top Specific Causes for Liquefied Petroleum Gases 2005-2007

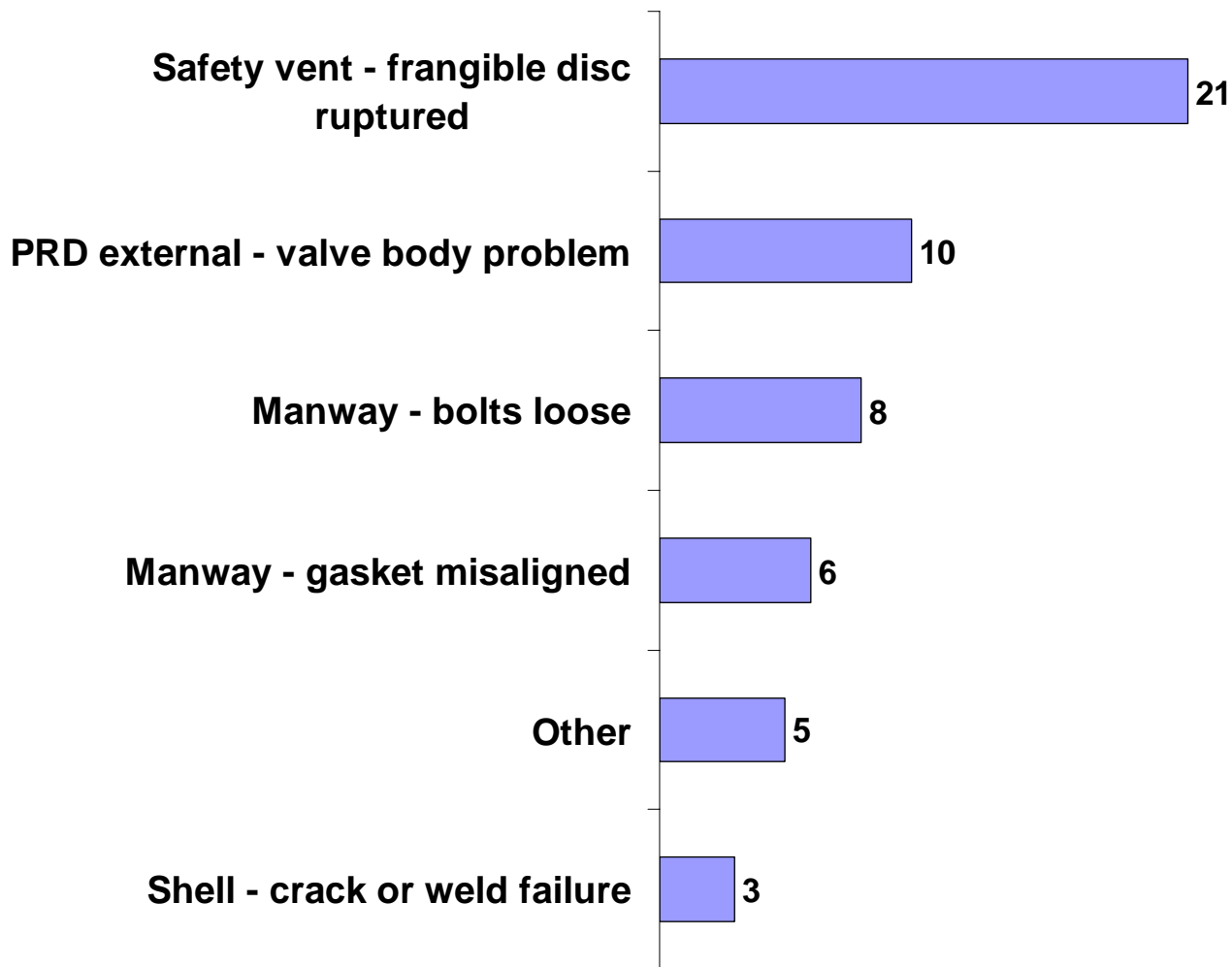


Top Specific Causes for Liquefied Petroleum Gases

2008 1st 7 months

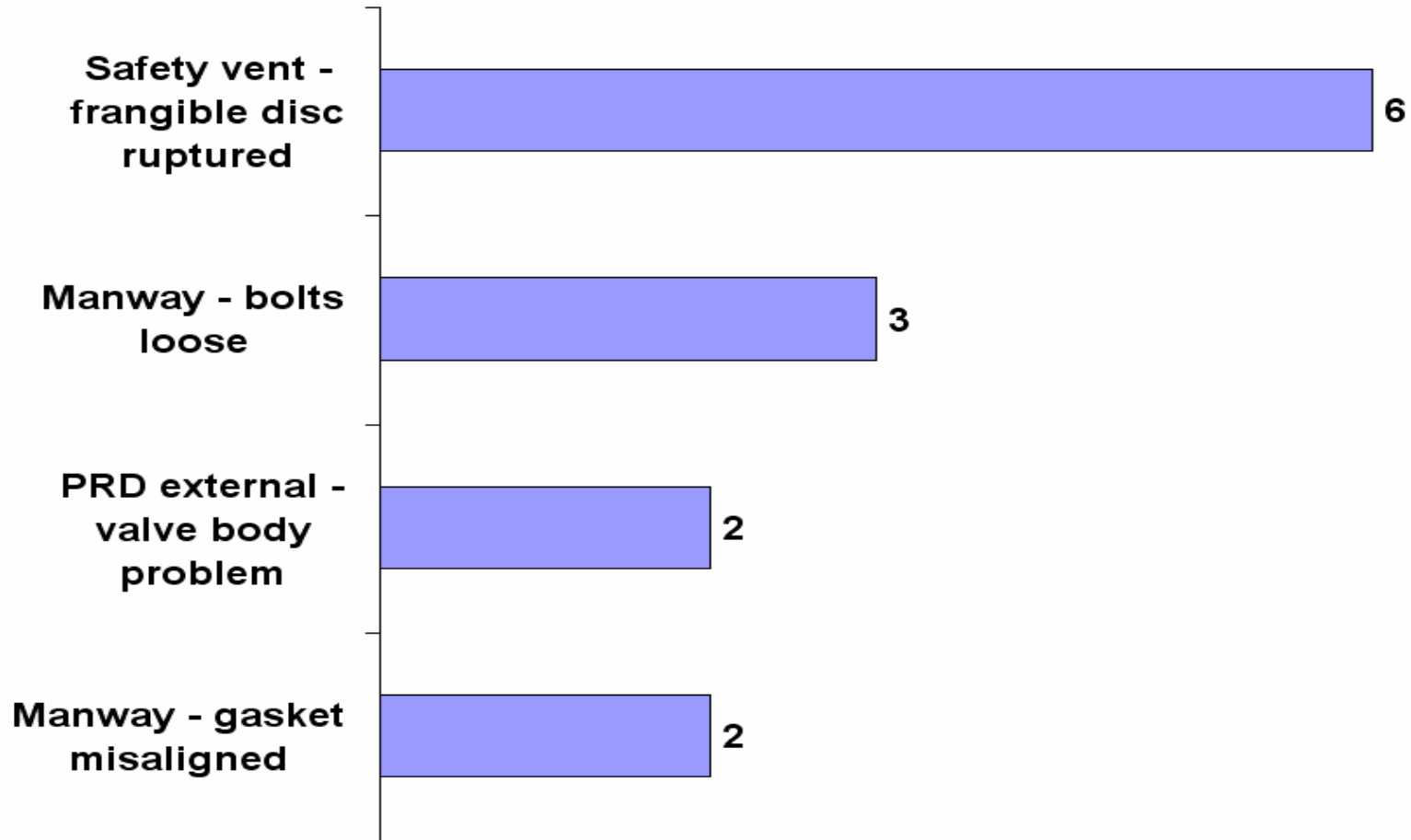


Top Specific Causes for Sodium Hydroxide Solution 2005-2007



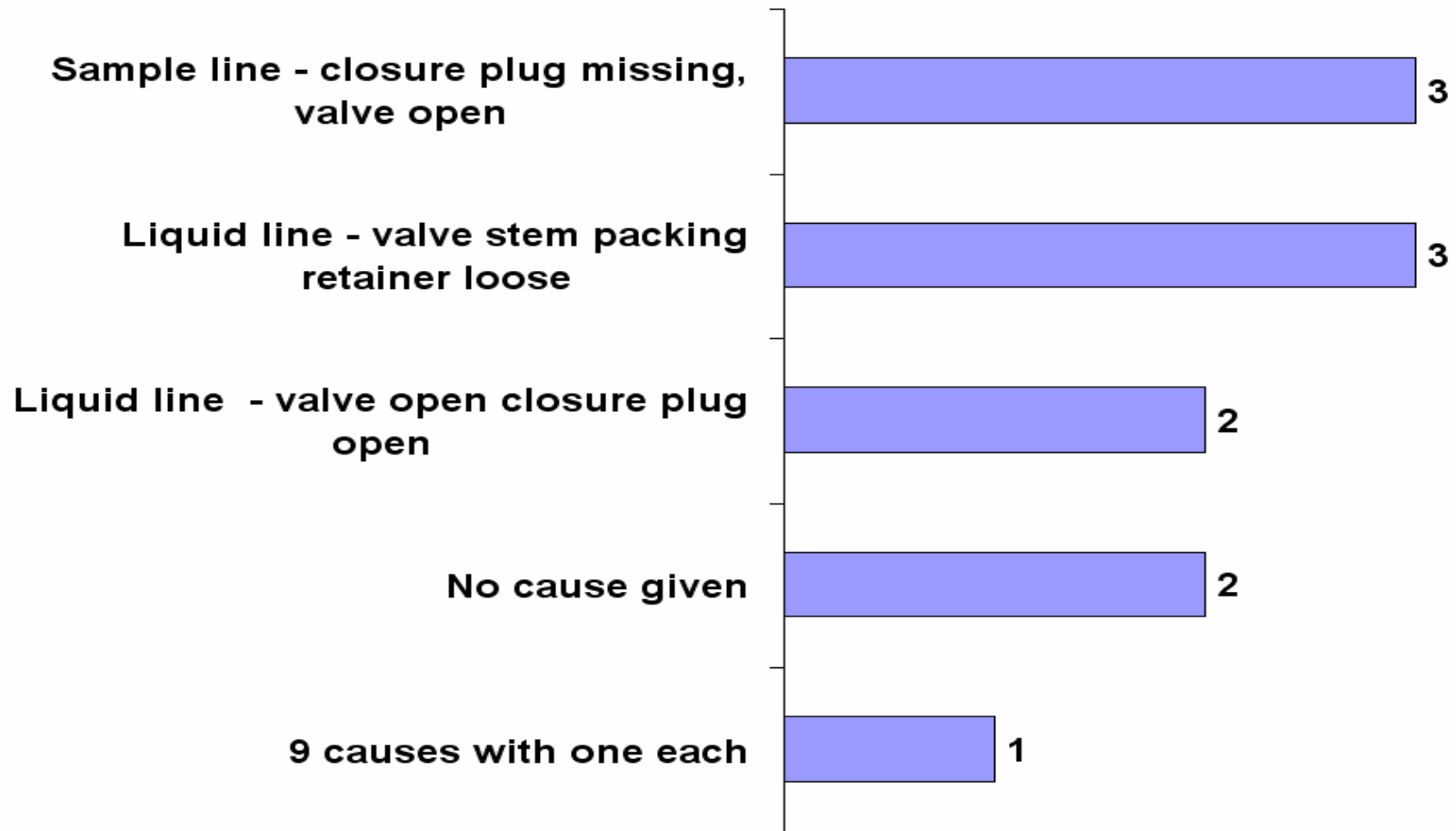
Top Specific Causes for Sodium Hydroxide Solution

2008 1st 7 months

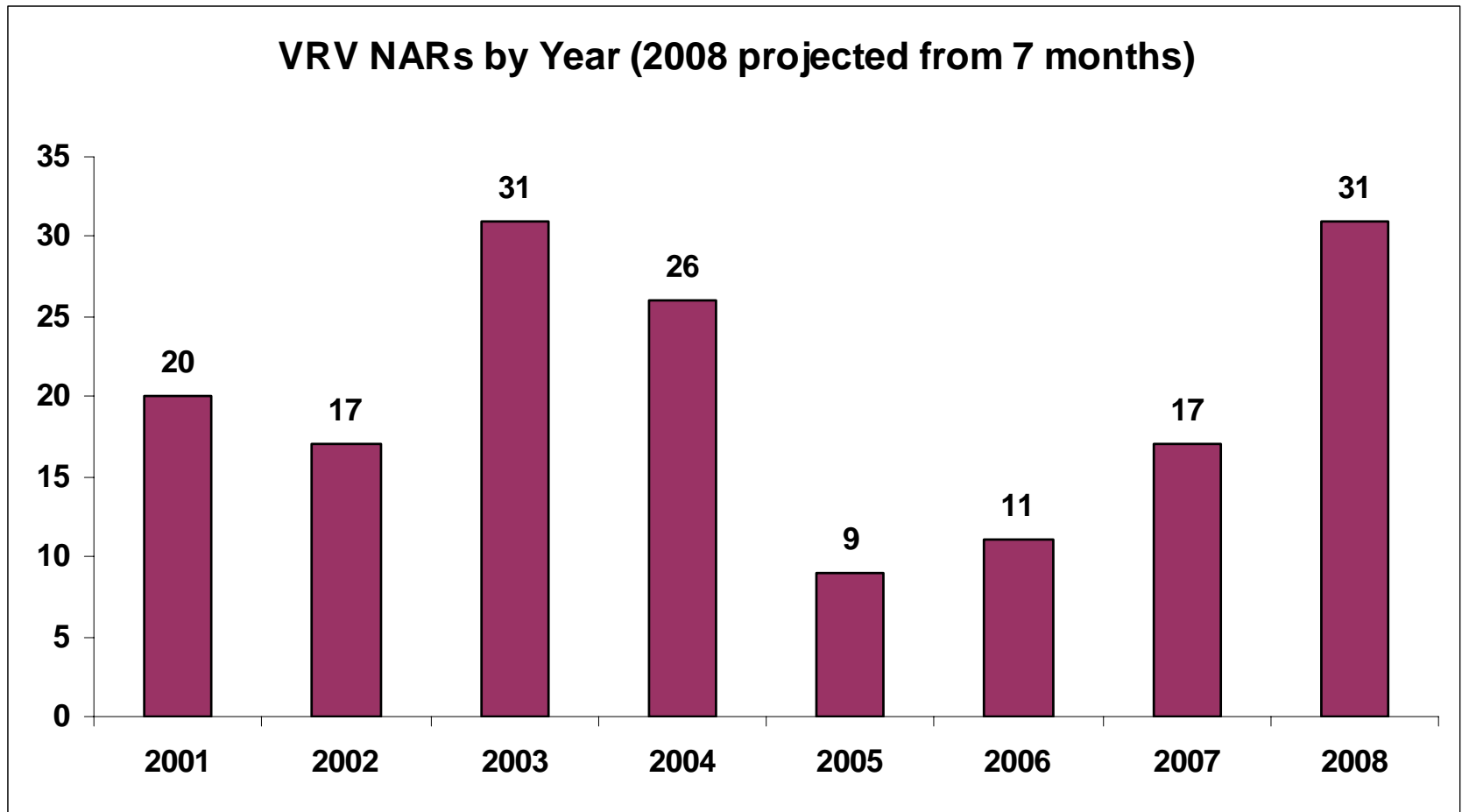


Top Specific Causes for Gasoline

2008 1st 7 months



Vacuum Relief Valve NARs 2001- 2008



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Vacuum Relief Valve NAR Causes

2007 plus 2008 1st 7 months

