



EPA Region 6 Accidental Release Information :

1982 - 2012

Thirty Years of Release / Spill Information

NRC BACKGROUND :: Primary function of NRC is to serve as sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment.

In addition to gathering and distributing spill data for OSCs and serving as operations and communications center for NRT, NRC maintains agreements with a variety of entities to make notifications regarding incidents meeting established trigger criteria.

NRC also takes Terrorist/Suspicious Activity Reports and Maritime Security Reports.

On behalf of DHS and the USCG, the NRC:

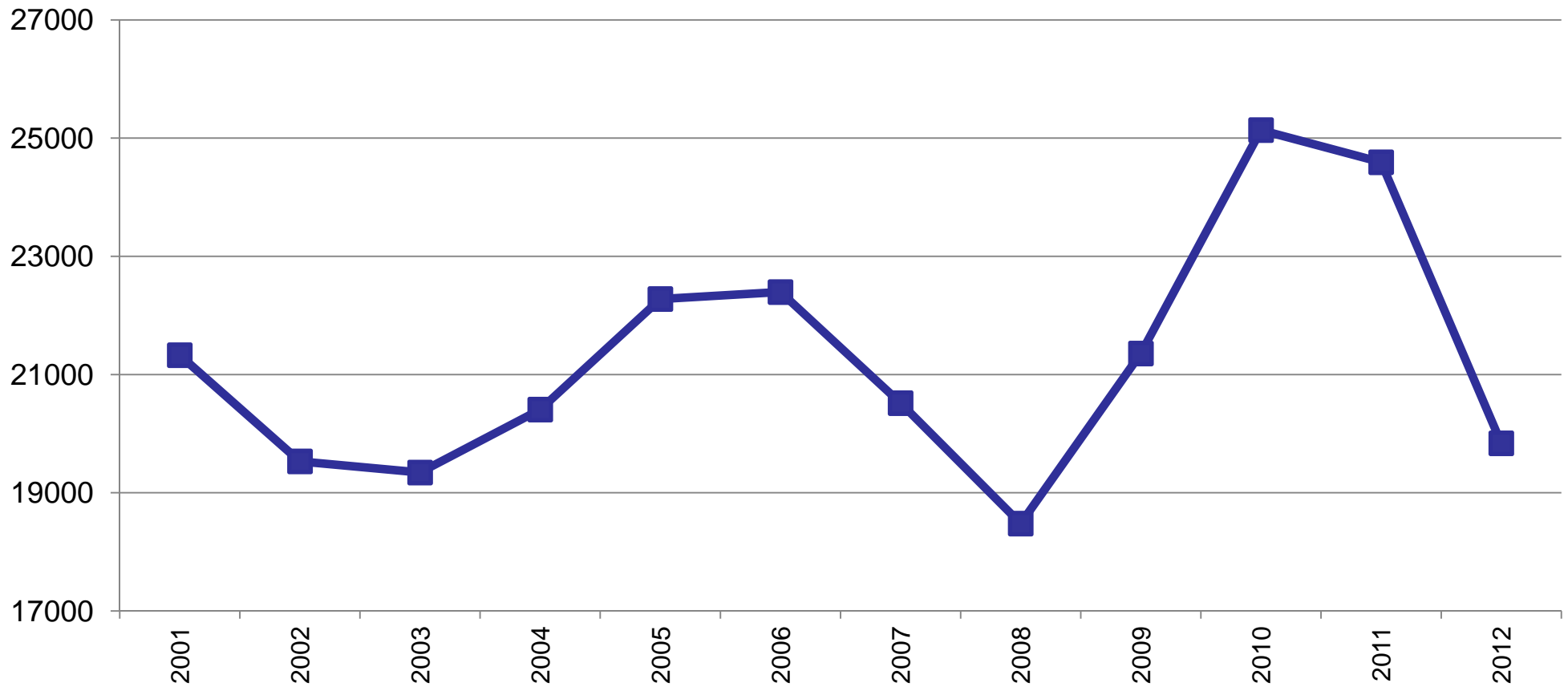
- Briefs the White House, Office of Homeland Security, Secretary of Transportation, and Chiefs of Modal Administrations regarding all significant transportation emergencies;
- Provides information the Coast Guard's Office of Marine Safety, Security, and Environmental Protection as needed;
- Receives and relays reports of incidents reportable under the Hazardous Materials Transportation Act;
- Provides incident reports to various DOT agencies;
- and provides notification to DOT and NTSB offices of transportation incidents that meet certain criteria.

On behalf of other Agencies, the NRC provides services to enhance the Federal Response System:



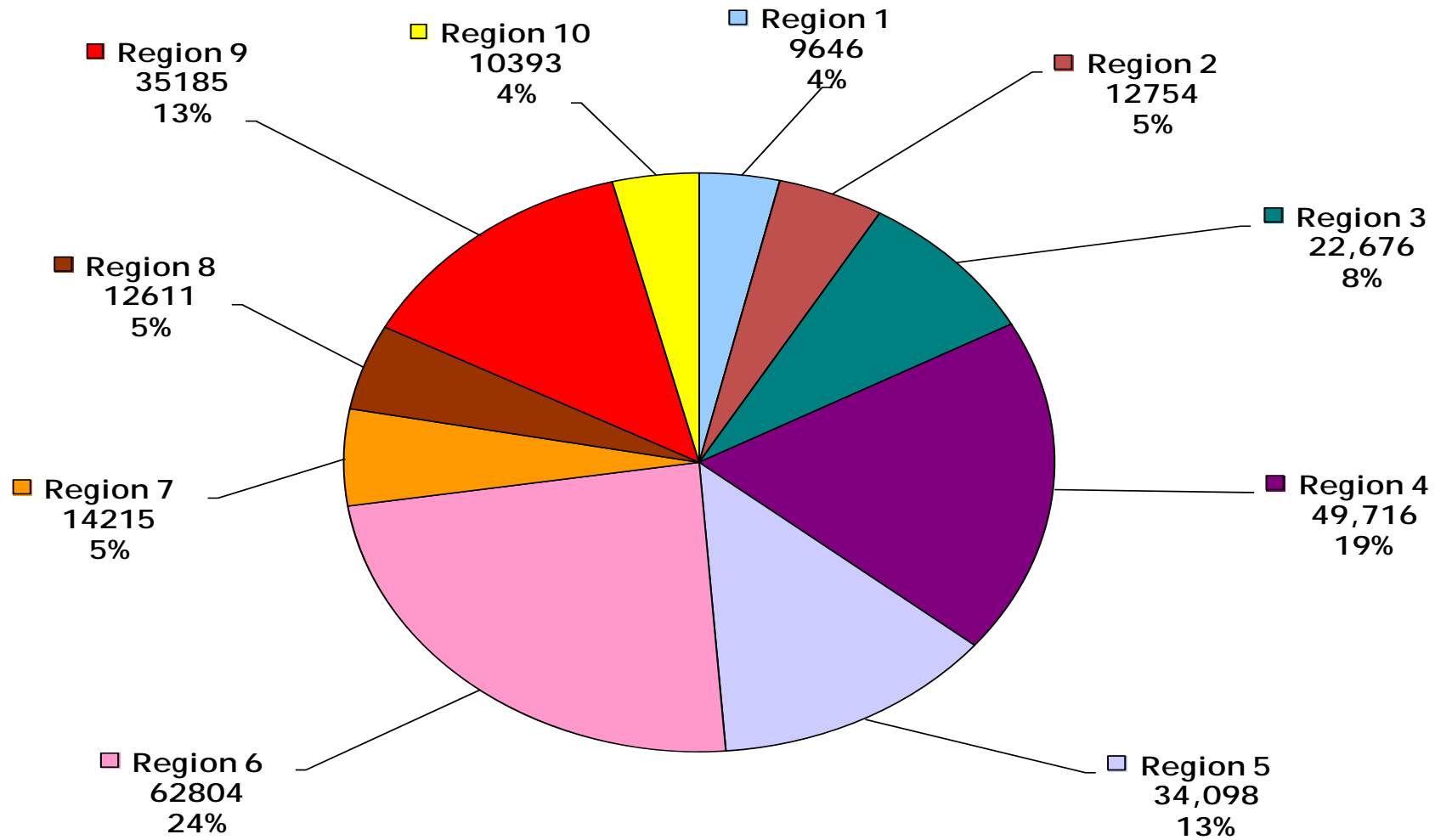
- For EPA, NRC receives incident reports under FRS which is supported under CERCLA, CWA, CAA, EPCRA, and OPA. NRC disseminates reports of oil discharges and chemical releases to OSC;
- For FEMA, NRC acts as a 24 hour contact point to receive earthquake, flood, hurricane, and evacuation reports;
- For NucRC, and DOE, NRC makes notification of all incidents involving radioactive material releases;
- For DOI, NRC receives reports of incidents involving Trans-Alaskan Pipeline Oil;
- For DOD, incidents involving transportation emergencies with DOD munitions or explosives are referred to tArmy Operations Center. Any incident involving hypergolic rocket fuels and oxidizers are passed to the Air Force Operations Center.
- NRC takes reports on potential or actual domestic terrorism and coordinates notifications and response with FBI;
- For DHHS, releases of etiological and biological agents are referred to the CDC;
- For FRA, NRC takes reports of railroad incidents involving hazardous materials, crossing fatalities, and accidents resulting in injury/death of employees.
- NRC is contact point for activation of NRT and provides facilities for NRT to use in coordinating national response action when required.

NRC Notifications Nationally / EPA (2001 -- 2012)



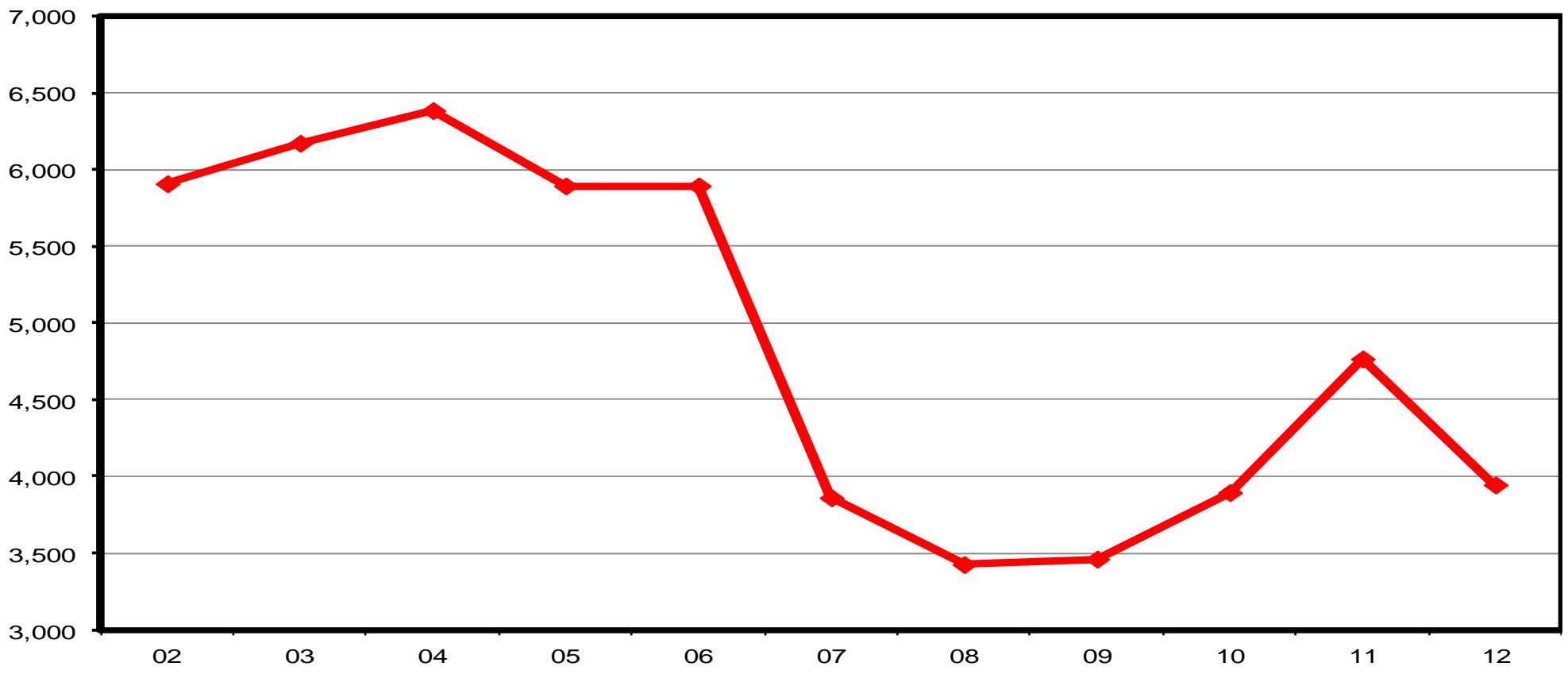
2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012
21,327	19,530	19,343	20,407	22,278	22,396	20,517	18,479	21,357	25,136	24,592	19,837

EPA Notifications to NRC per Region (2001 - 2012)



Region 1	Region 2	Region 3	Region 4	Region 5	Region 6	Region 7	Region 8	Region 9	Region 10
9,646	12,754	22,676	49,716	34,098	62,804	14,215	12,611	35,185	10,393

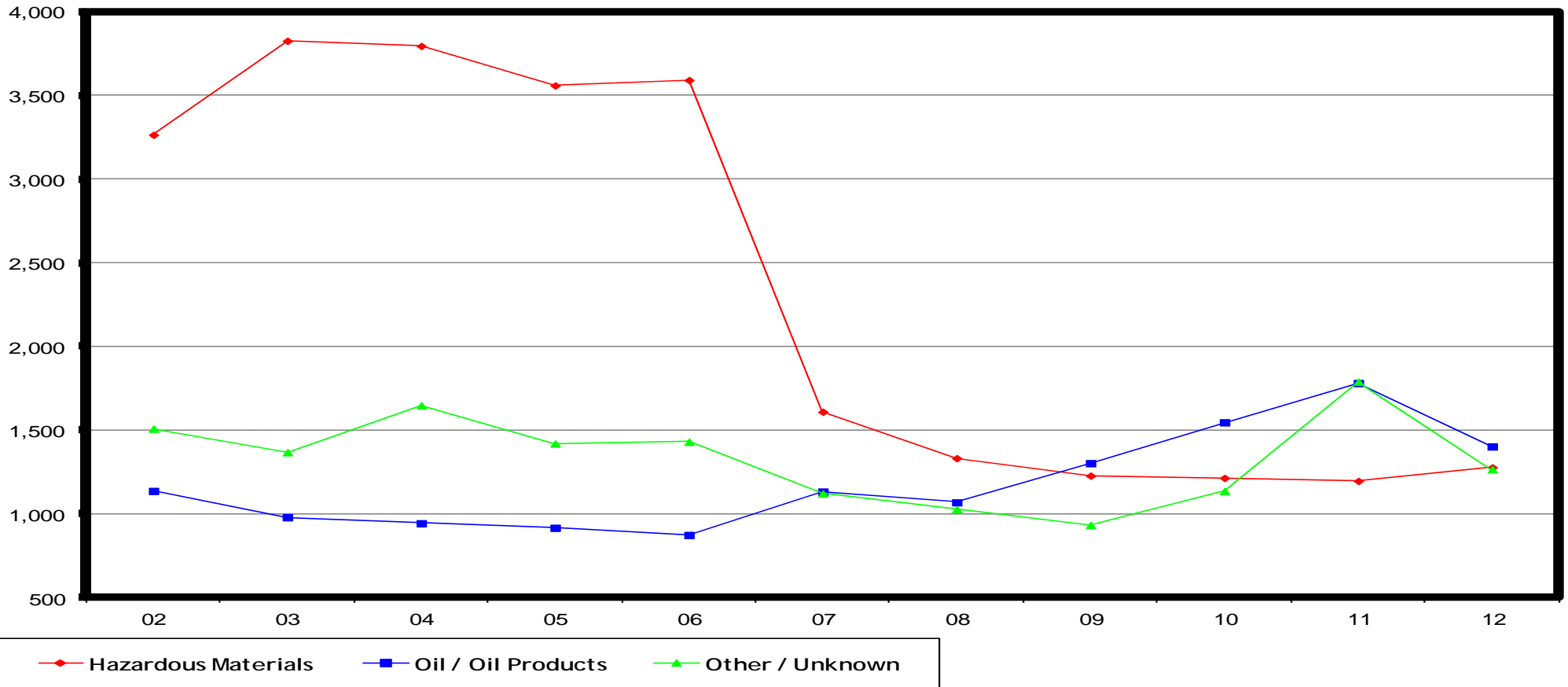
NRC Notifications to EPA Region 6 (1982 - 2012)



	82	83	84	85	86	87	88	89	90	91	92	93	94	95
EPA Notifications	1,315	1,520	1,521	1,920	2,196	2,057	2,142	3,152	4,591	3,784	4,208	4,340	5,063	5,180

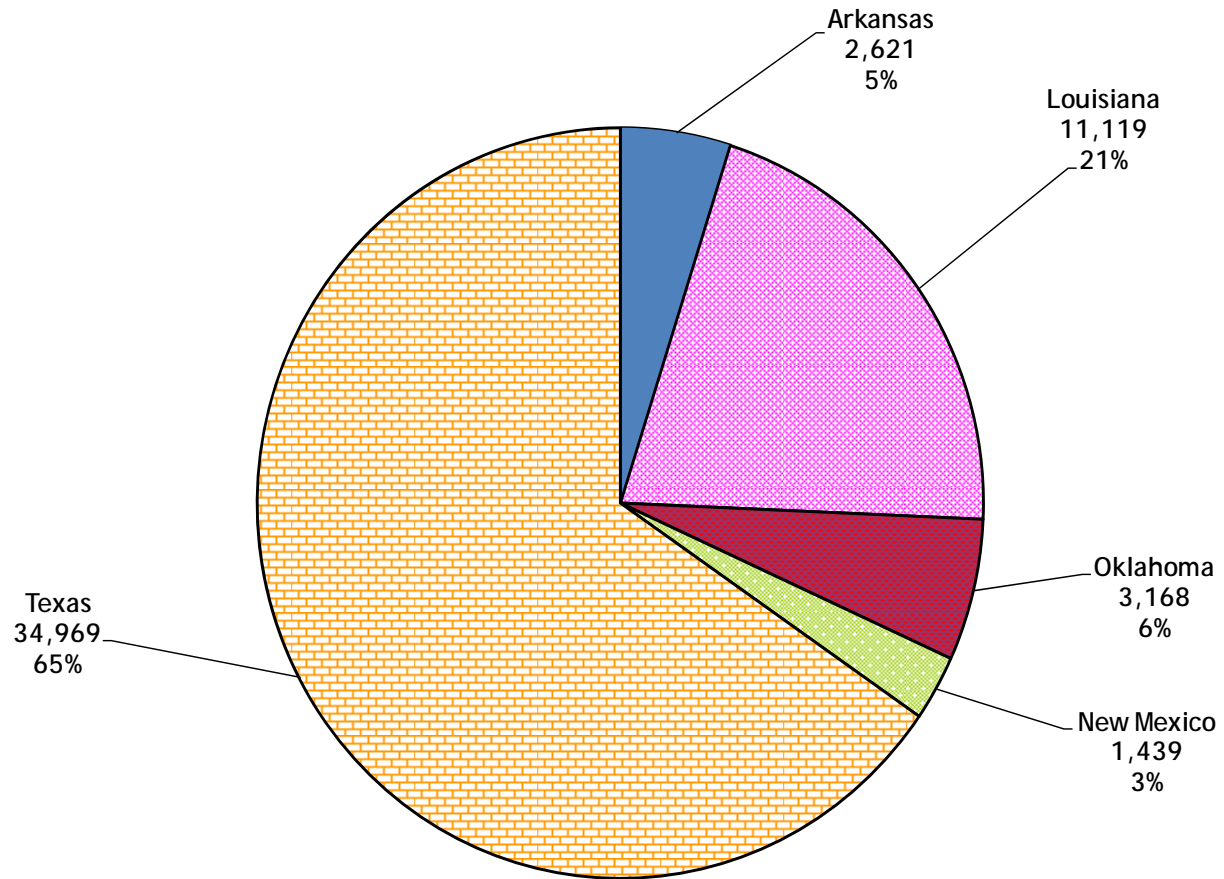
96	97	98	99	00	01	02	03	04	05	06	07	08	09	10	11	12
4,376	4,277	4,472	4,559	4,641	6,131	5,908	6,172	6,385	5,894	5,894	3,861	3,426	3,461	3,895	4,766	3,945

NRC Notifications to EPA Region 6 -- by Material Type (2002 - 2012)



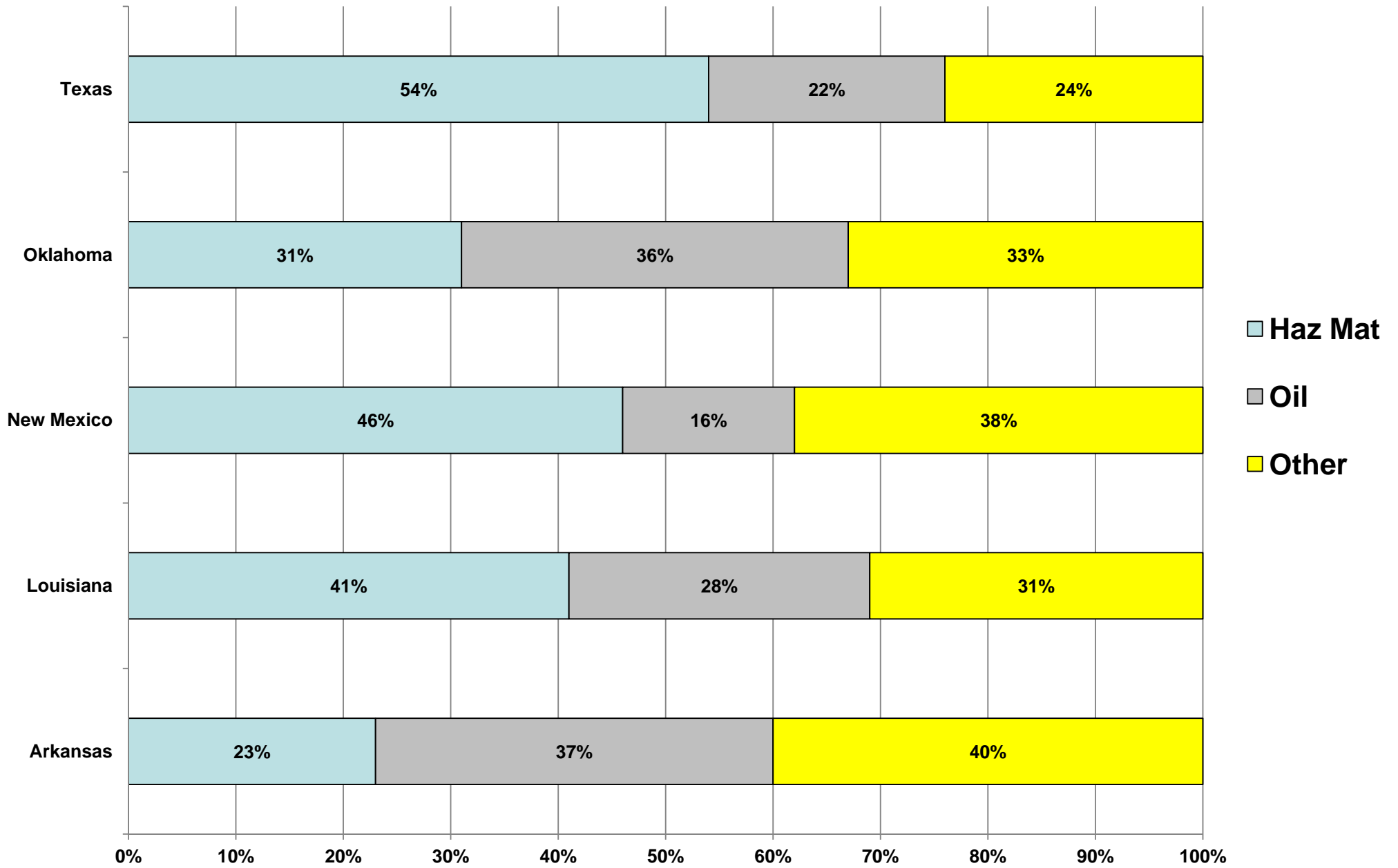
	02	03	04	05	06	07	08	09	10	11	12
Hazardous Materials	3,264	3,826	3,795	3,559	3,591	1,609	1,332	1,227	1,214	1,196	1,277
Oil / Oil Products	1,136	979	943	916	873	1,132	1,068	1,302	1,546	1,781	1,402
Other / Unknown	1,508	1,367	1,647	1,419	1,430	1,120	1,026	932	1,135	1,789	1,265

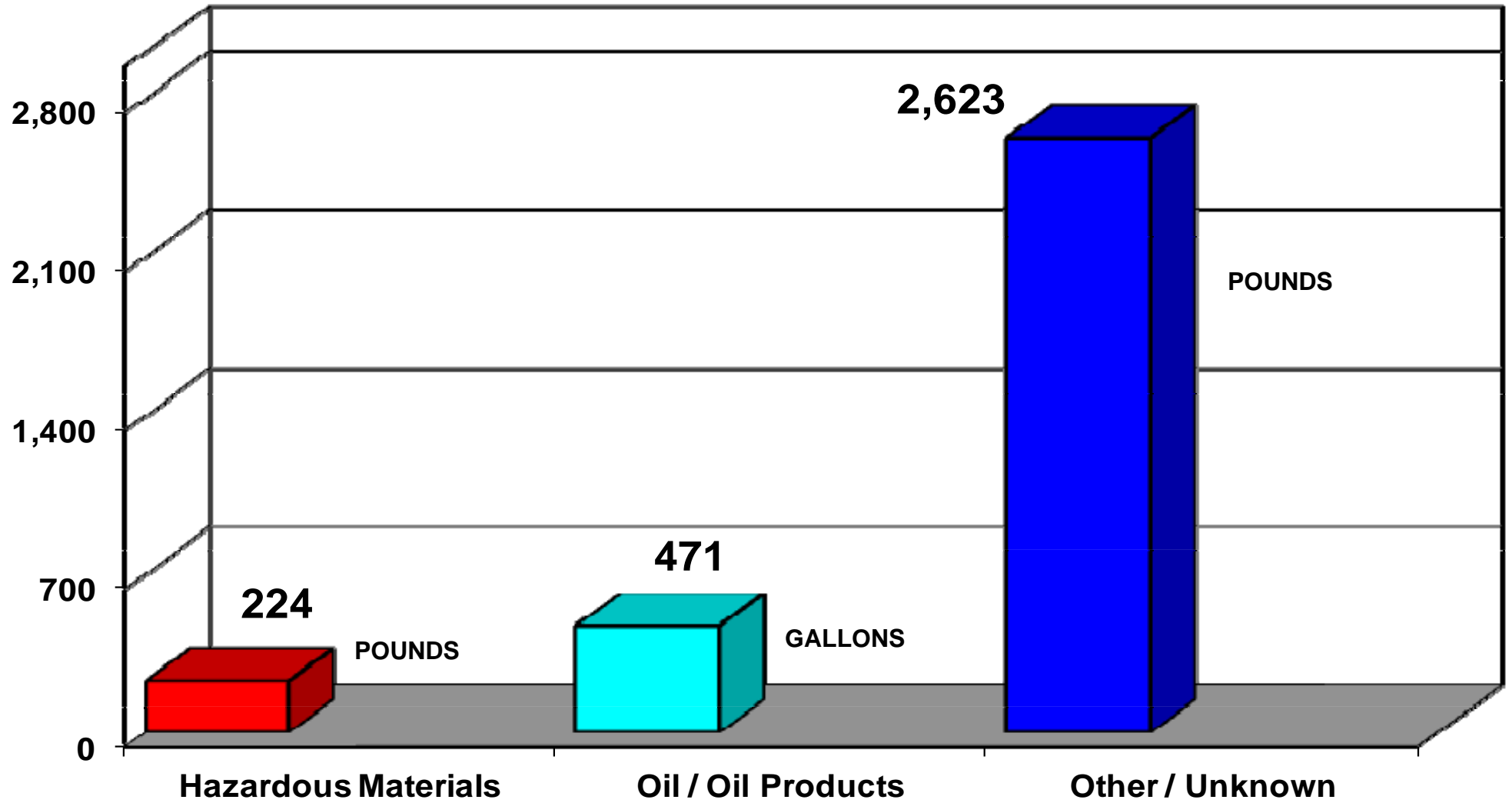
NRC Notifications to EPA Region 6 -- % by State (2002 - 2012)



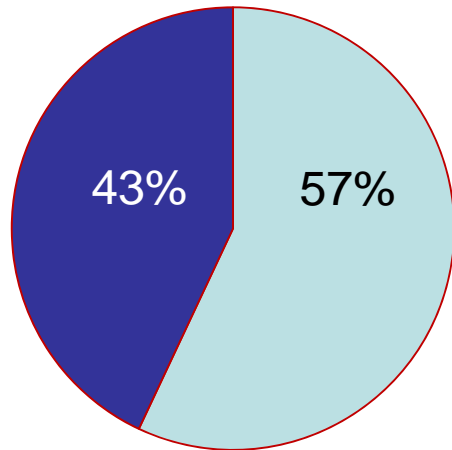
	02	03	04	05	06	07	08	09	10	11	12
Arkansas	249	213	256	233	252	200	239	221	245	276	237
Louisiana	1,109	1,182	1,066	1,122	982	837	875	864	977	1,212	893
New Mexico	70	124	287	224	295	106	73	76	93	90	71
Oklahoma	464	291	318	343	276	291	267	248	246	295	230
Texas	4,016	4,362	4,458	3,972	4,089	2,427	1,972	2,052	2,334	2,873	2,414

NRC Notifications to EPA Region 6 -- Percent by Material Type (2002 - 2012)

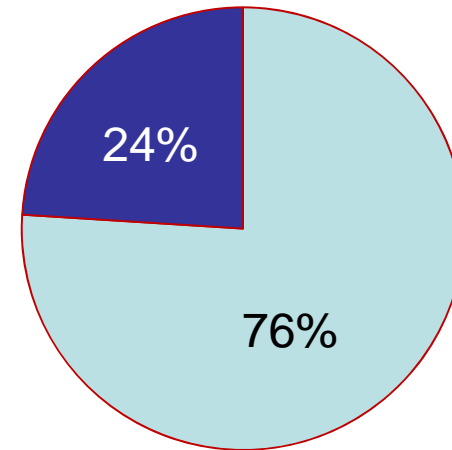




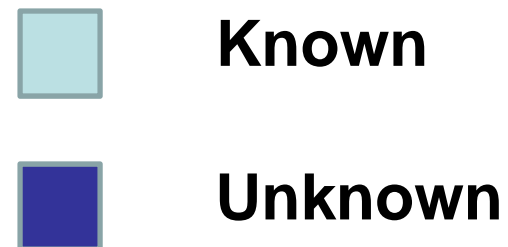
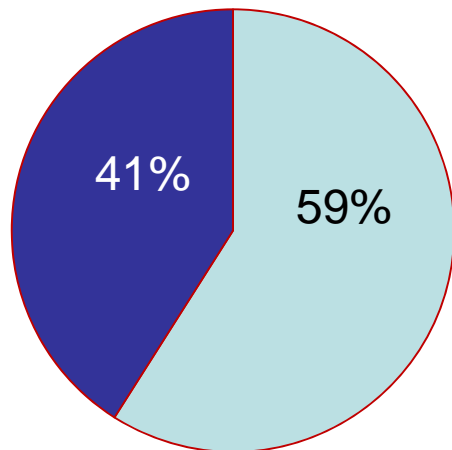
Other



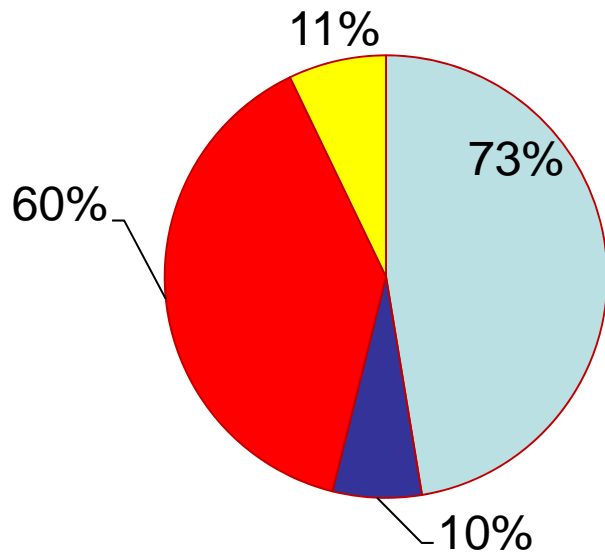
Hazardous Materials



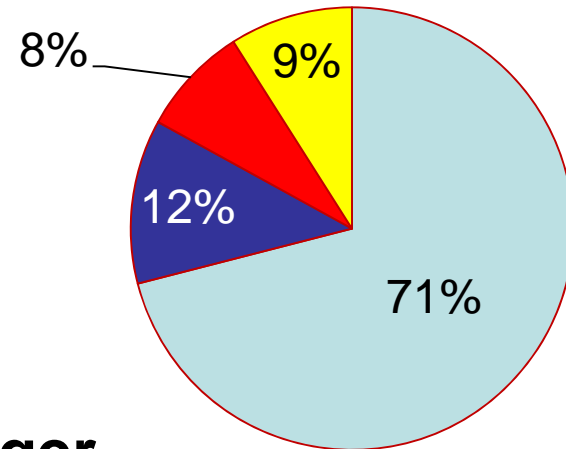
Oil / Oil Products



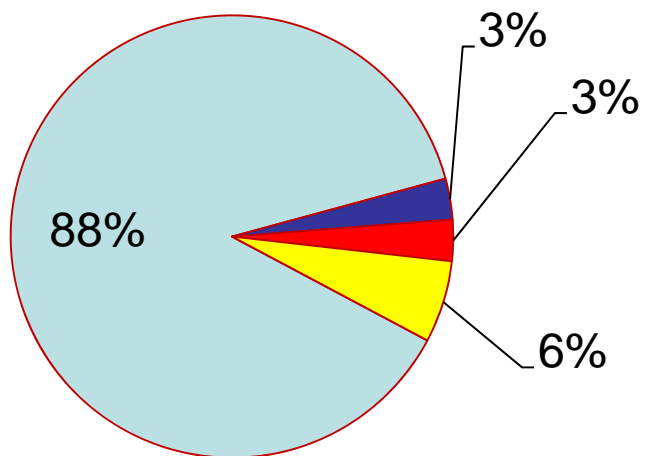
Cumulative



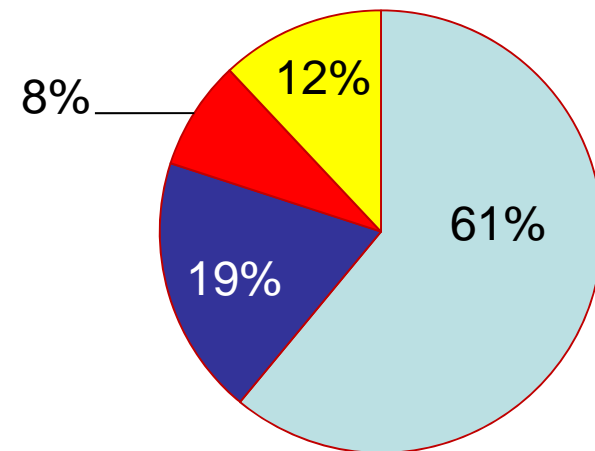
Hazardous Substances



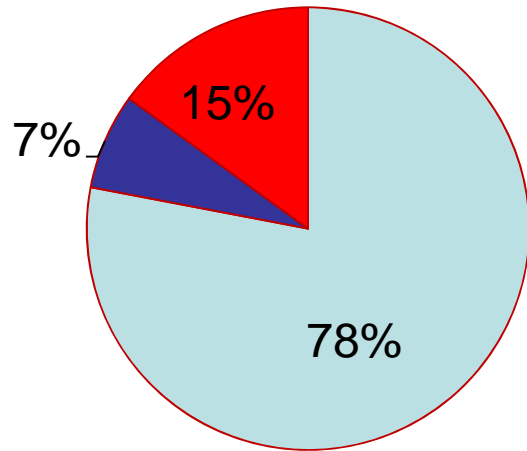
Oil / Oil Products



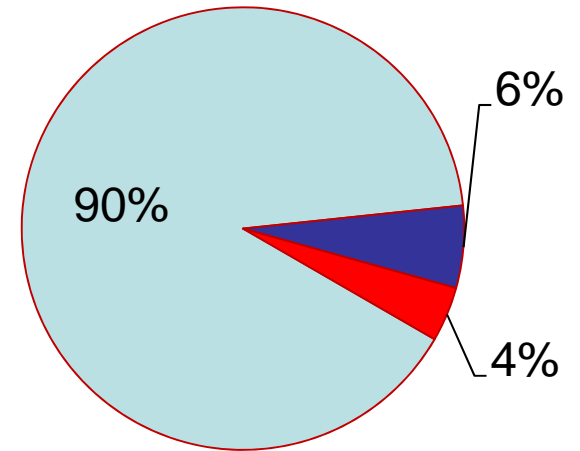
Other



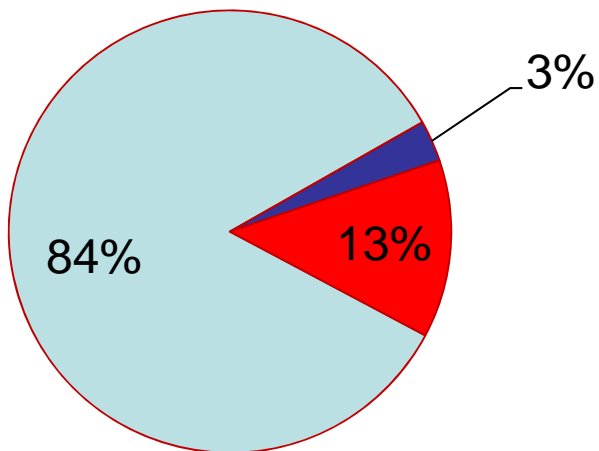
Cumulative



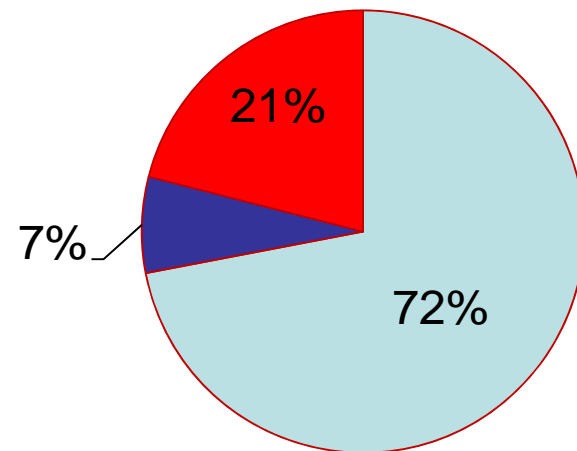
Hazardous Substances



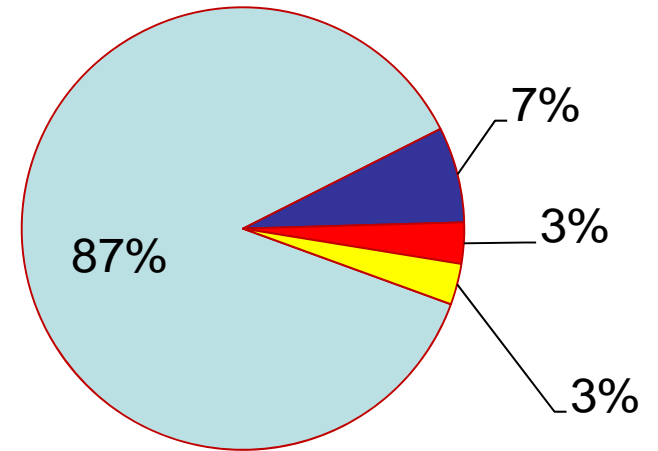
Oil / Oil Products



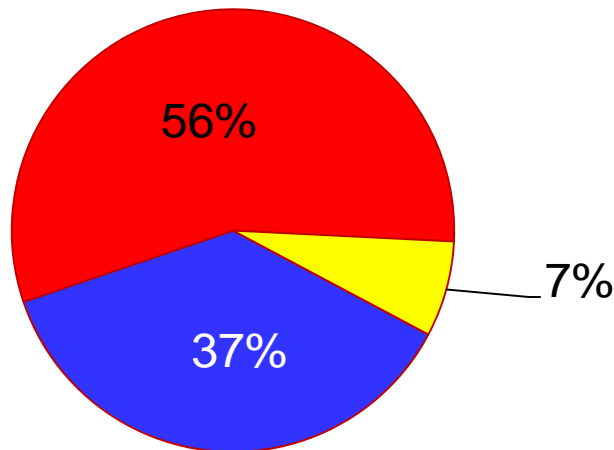
Other



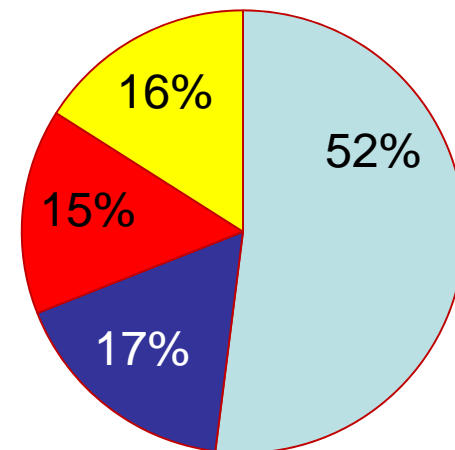
Hazardous Substances



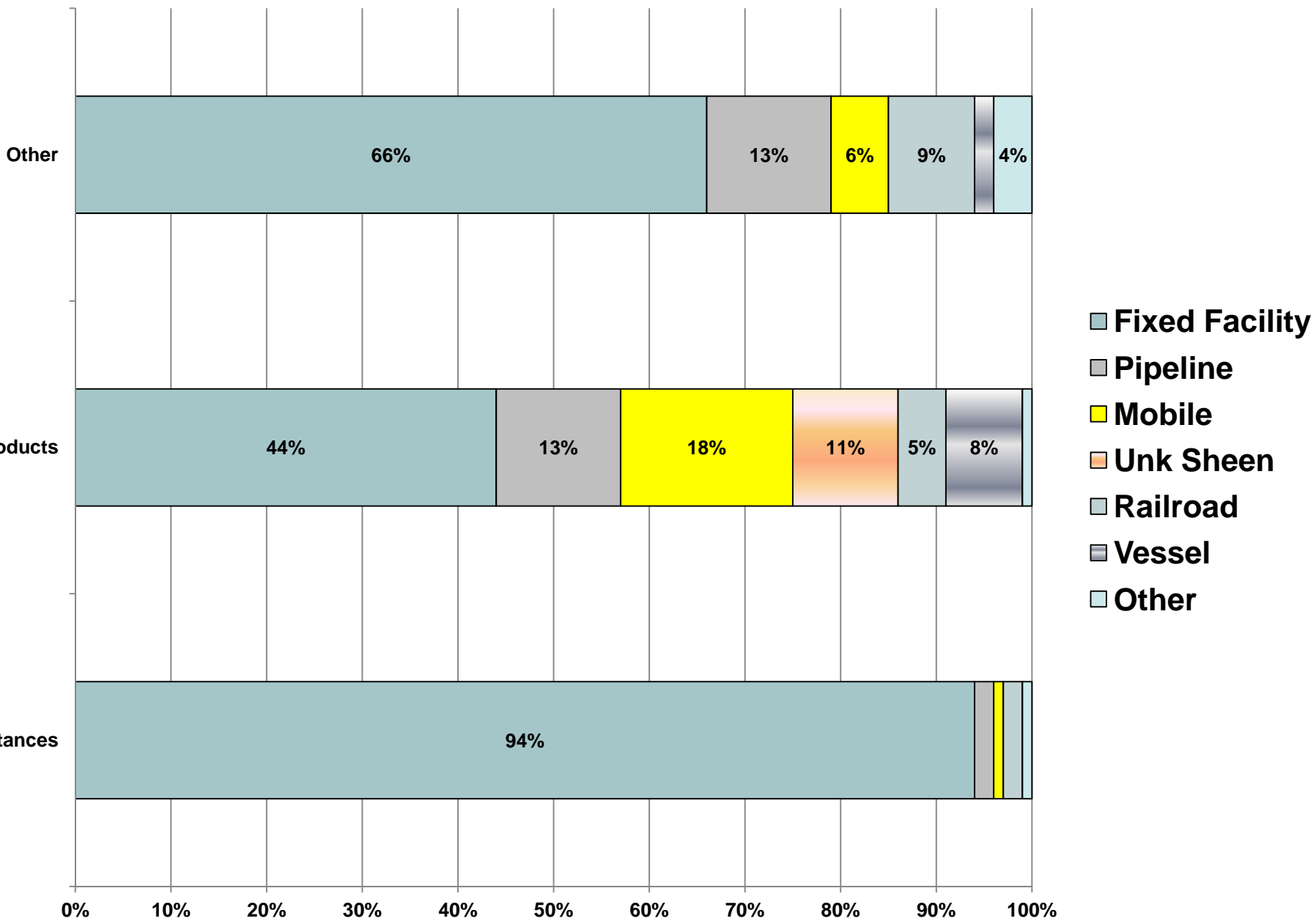
Oil / Oil Products



Other

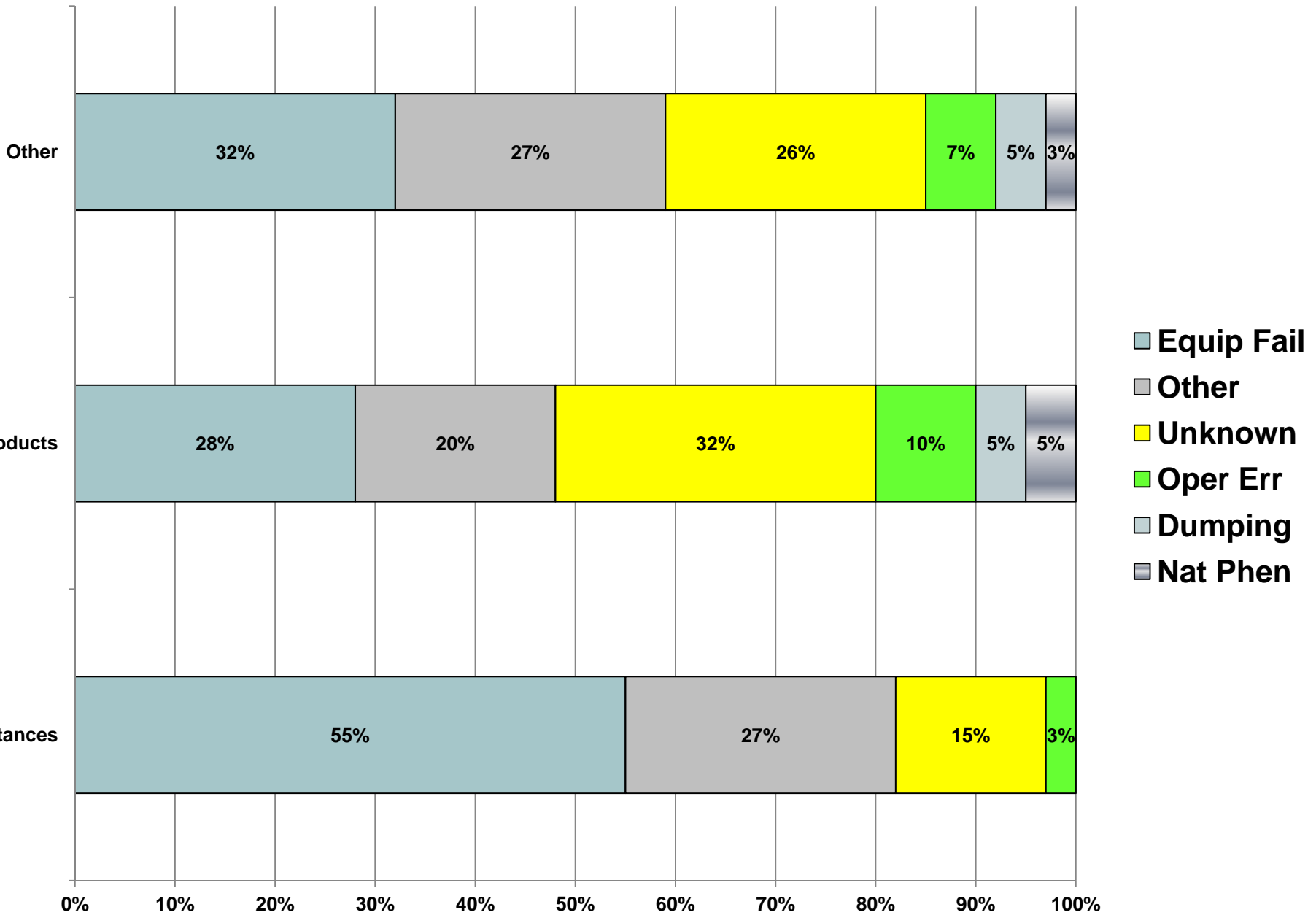


Other Medium may include: non-releases, groundwater, ballast, railway



Other Sources may include: aircraft, continuous, platform, terrorist

NRC Notifications to EPA Region 6 -- Cause of Release (2002 - 2012)



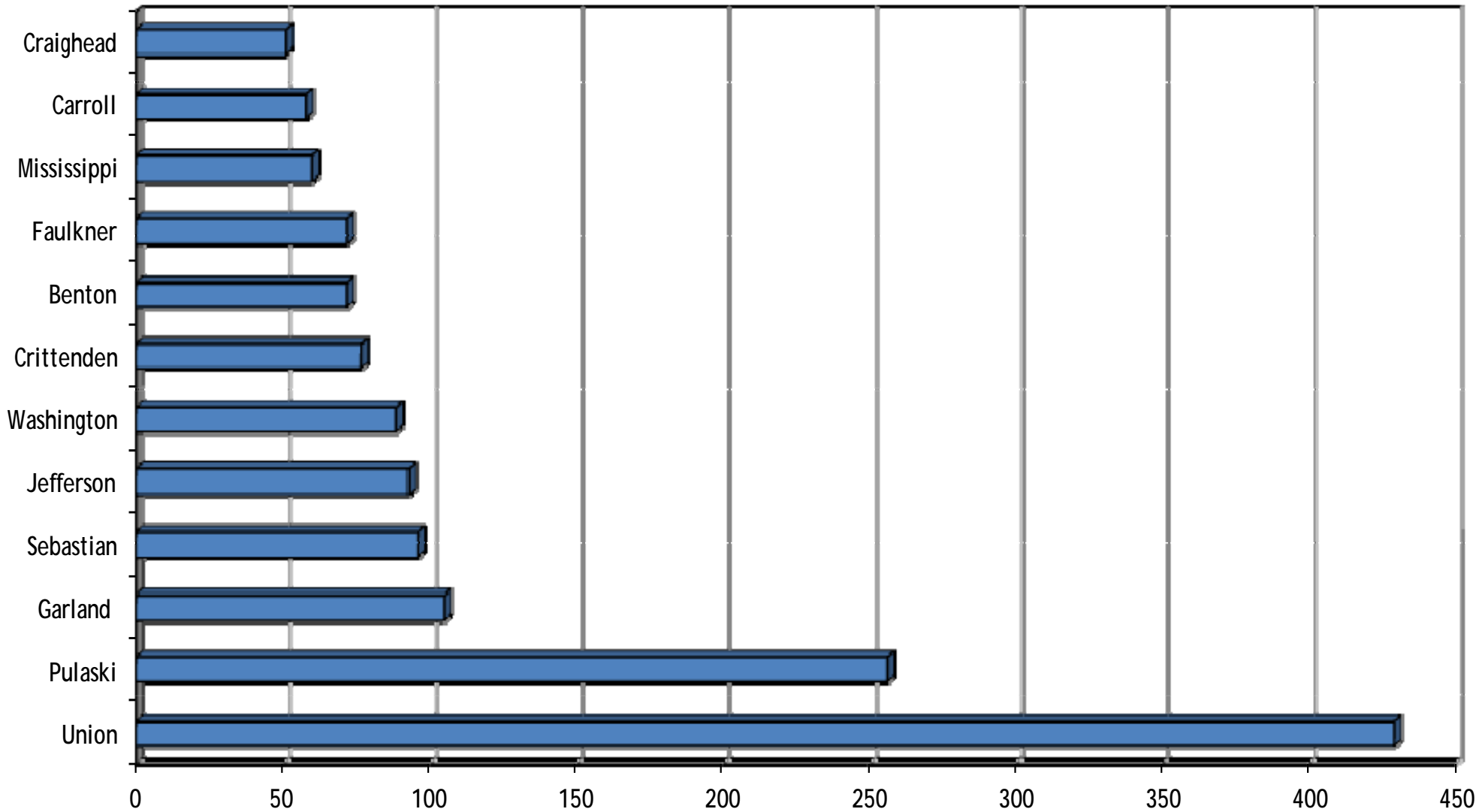
Other Causes may include: aircraft crash, continuous, terrorist

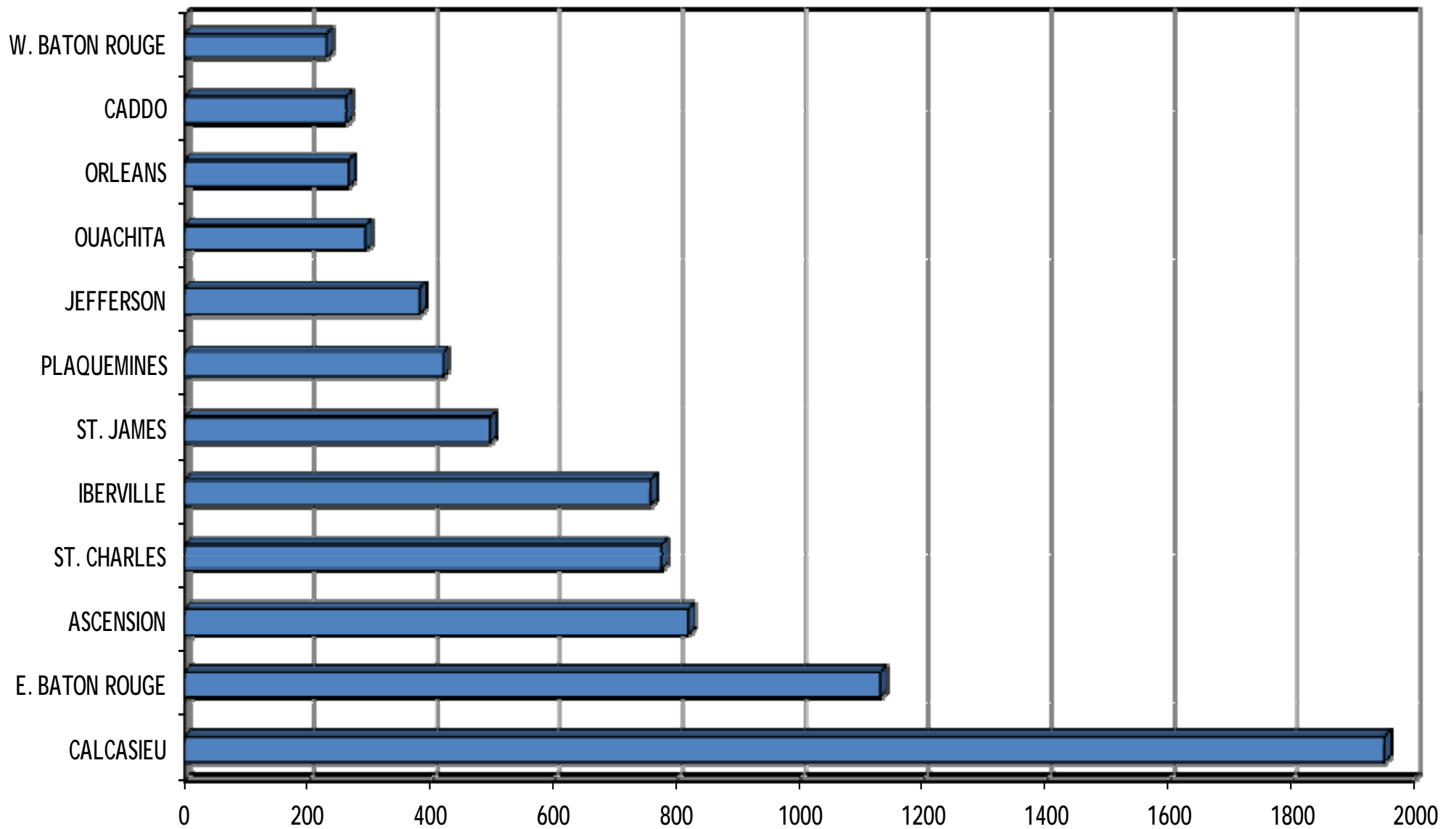
Since 2001, approximately 3.0 % of all release reports have led to a significant event (death, injury, community evacuation, shelter-in-place)

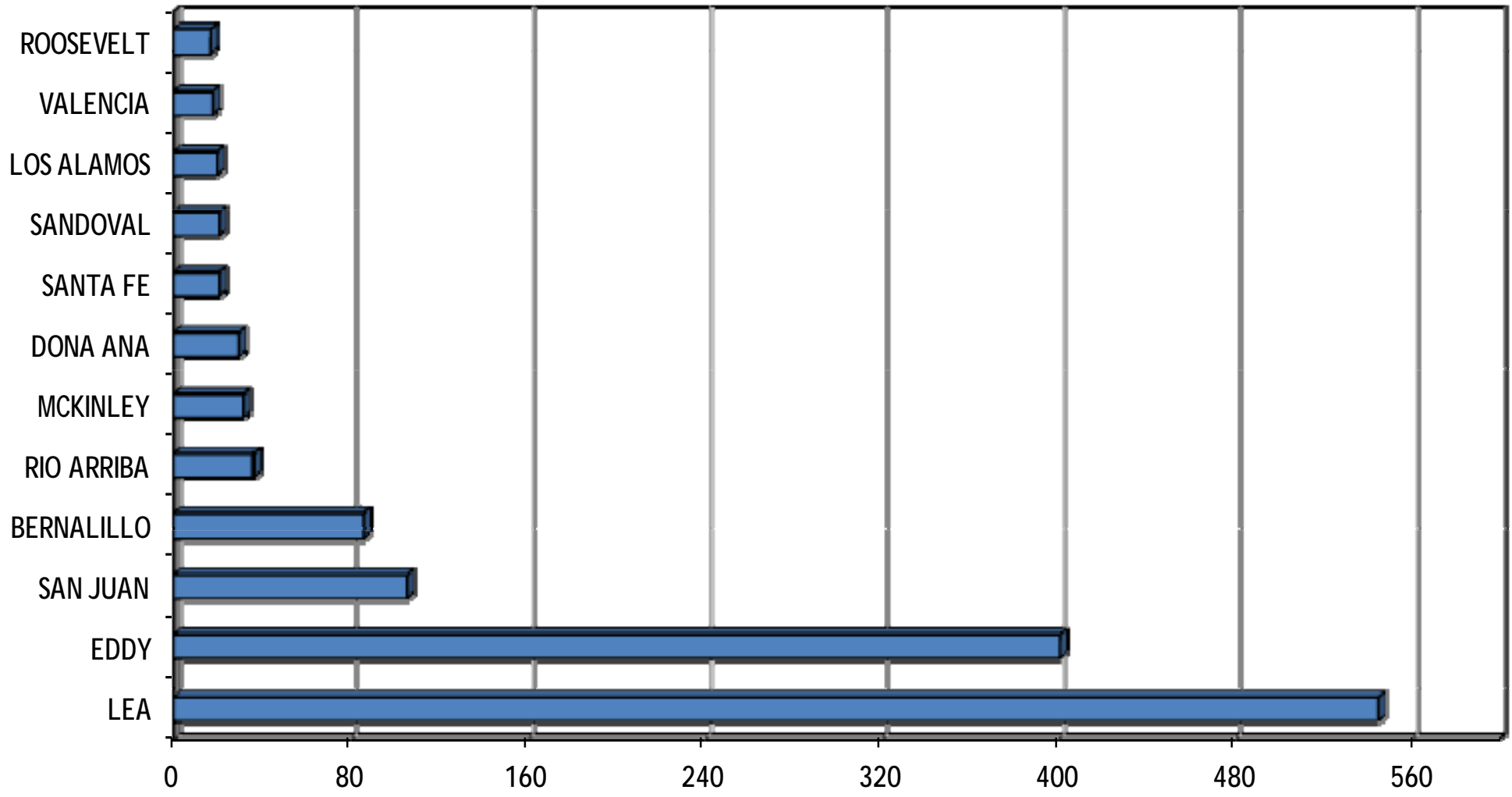
Deaths, injuries, and evacuations may not be directly due to exposure, but as a consequence of the accident resulting in the release

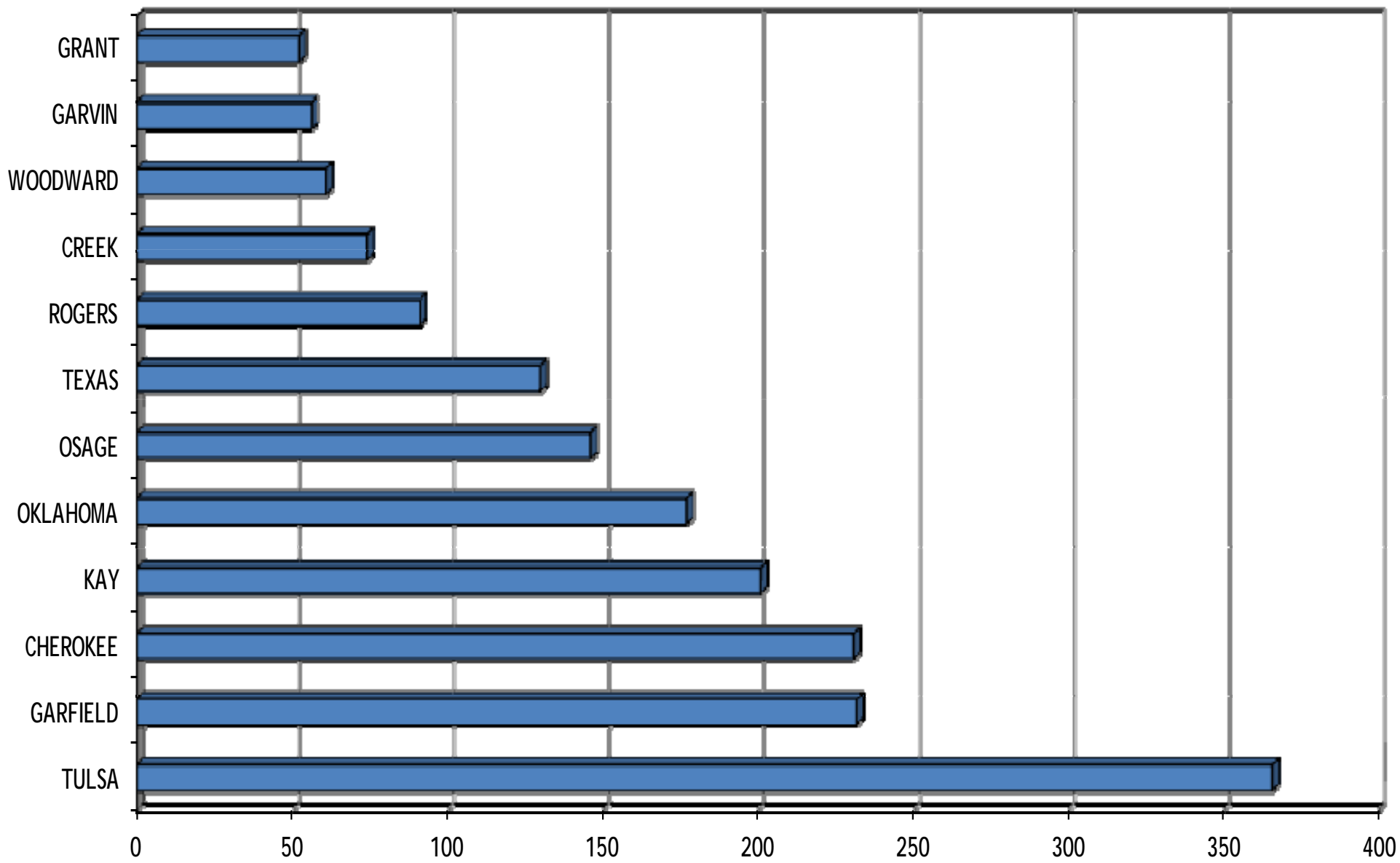
Since 2002, statistically there is a shelter-in-place or evacuation of a community (whole or part) due to a hazardous substance, oil, or other material incident somewhere in Region 6, on a weekly basis

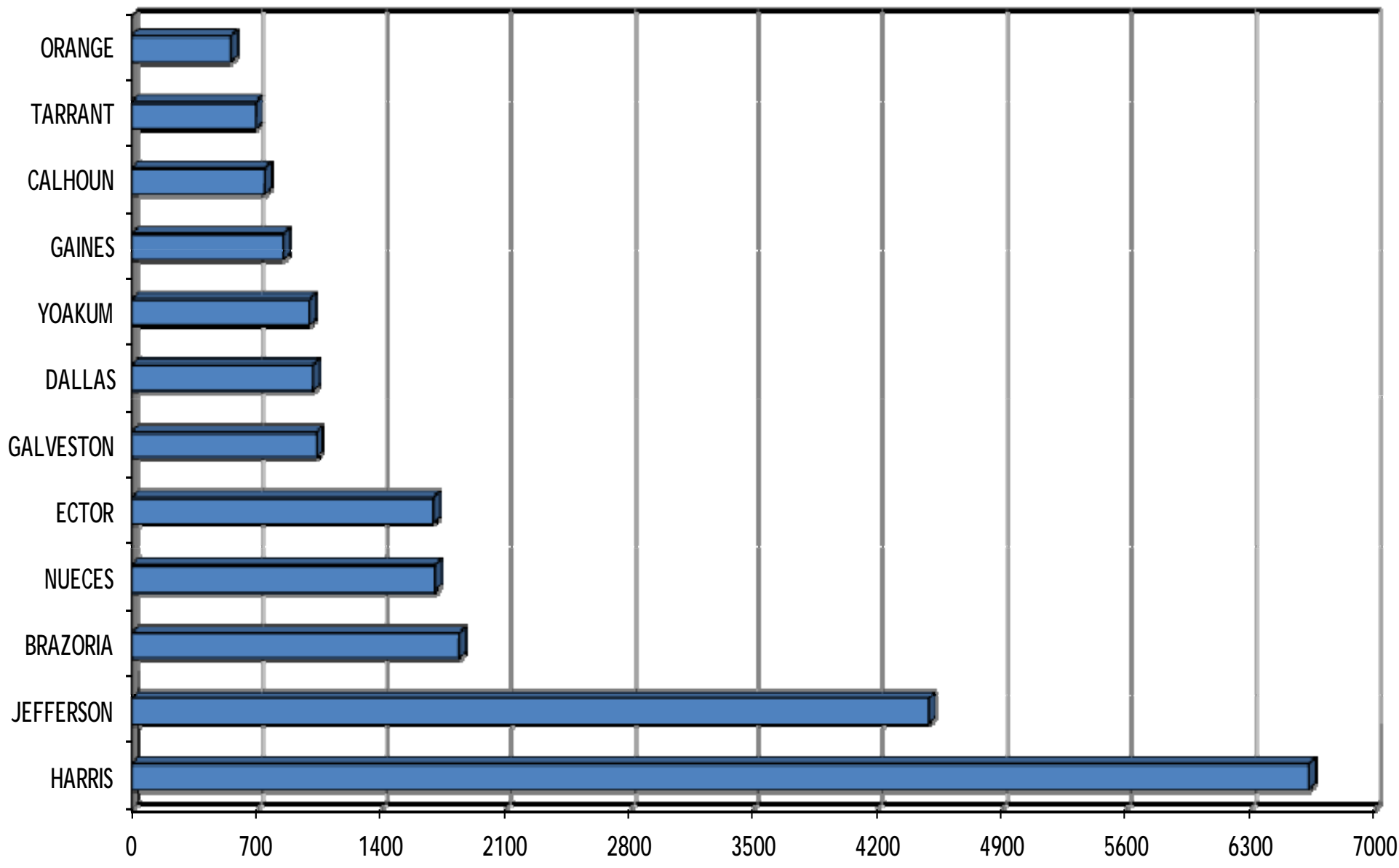
NRC Notifications to EPA Region 6 -- Top Counties : Arkansas (2002 - 2012)



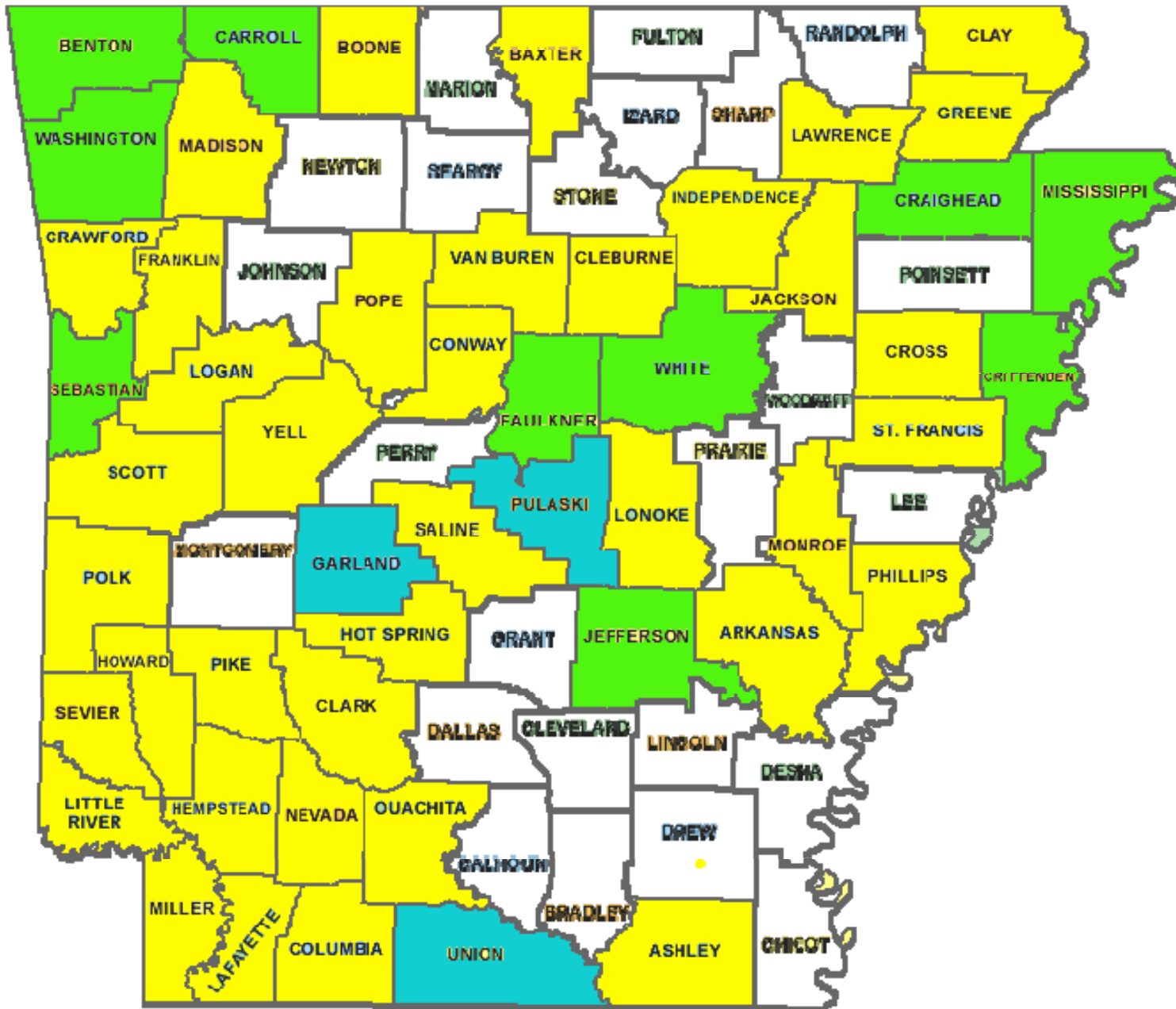








Region 6 – Spill Reports – All Reports (2002-2012)



< 10 releases

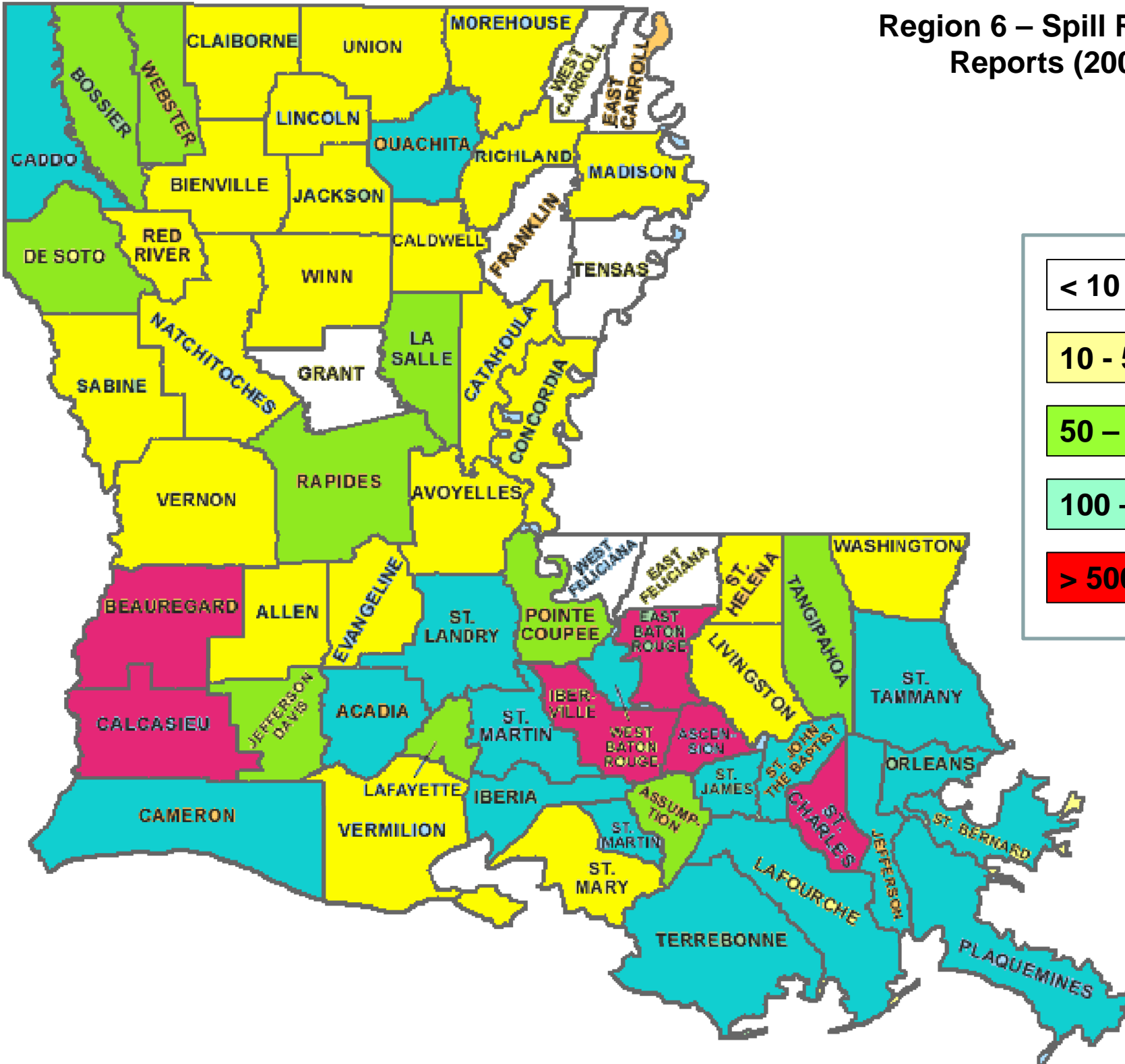
10 - 50 releases

50 - 100 releases

100 - 500 releases

> 500 releases

Region 6 – Spill Reports – All Reports (2002-2012)



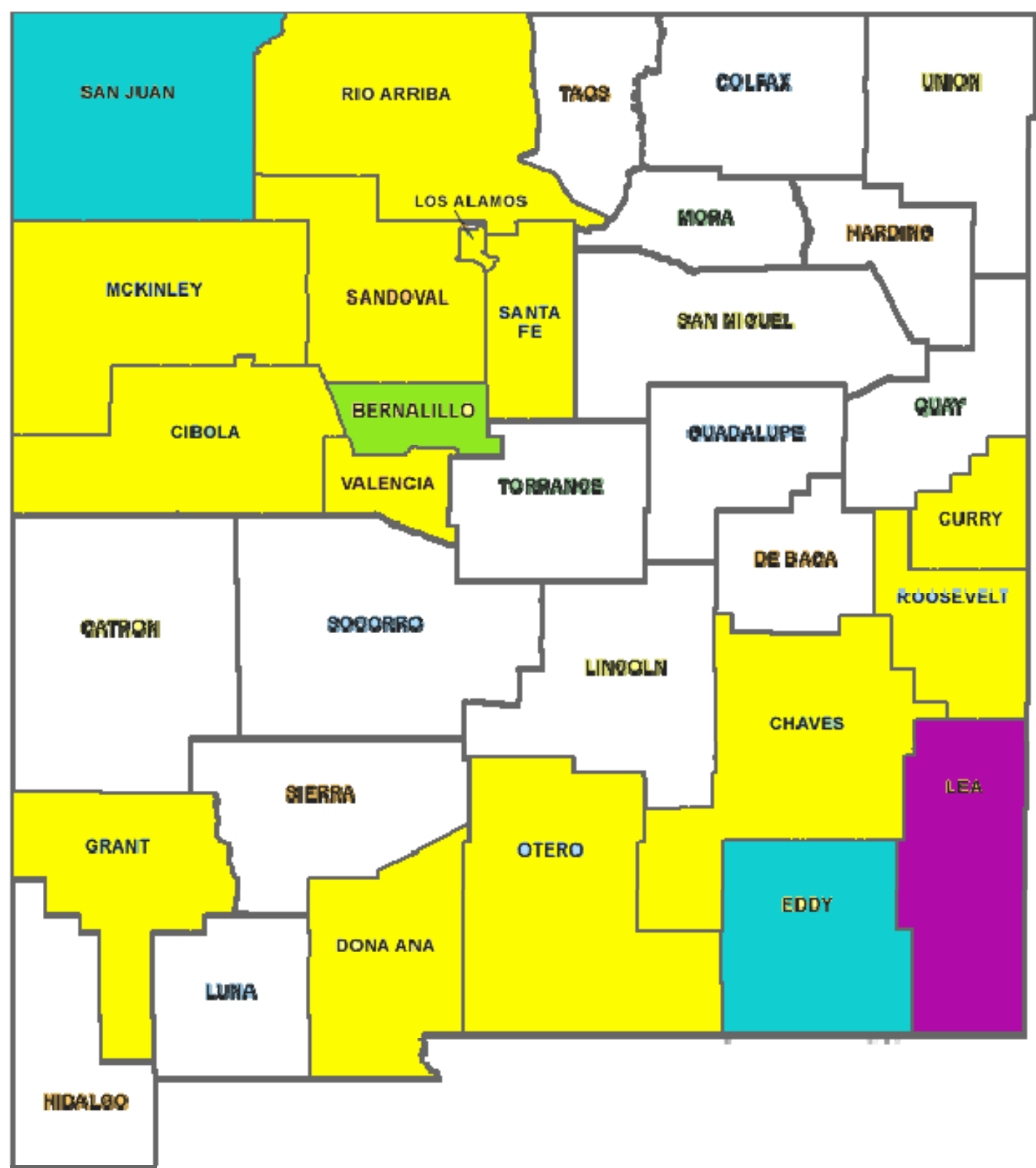
< 10 releases

10 - 50 releases

50 - 100 releases

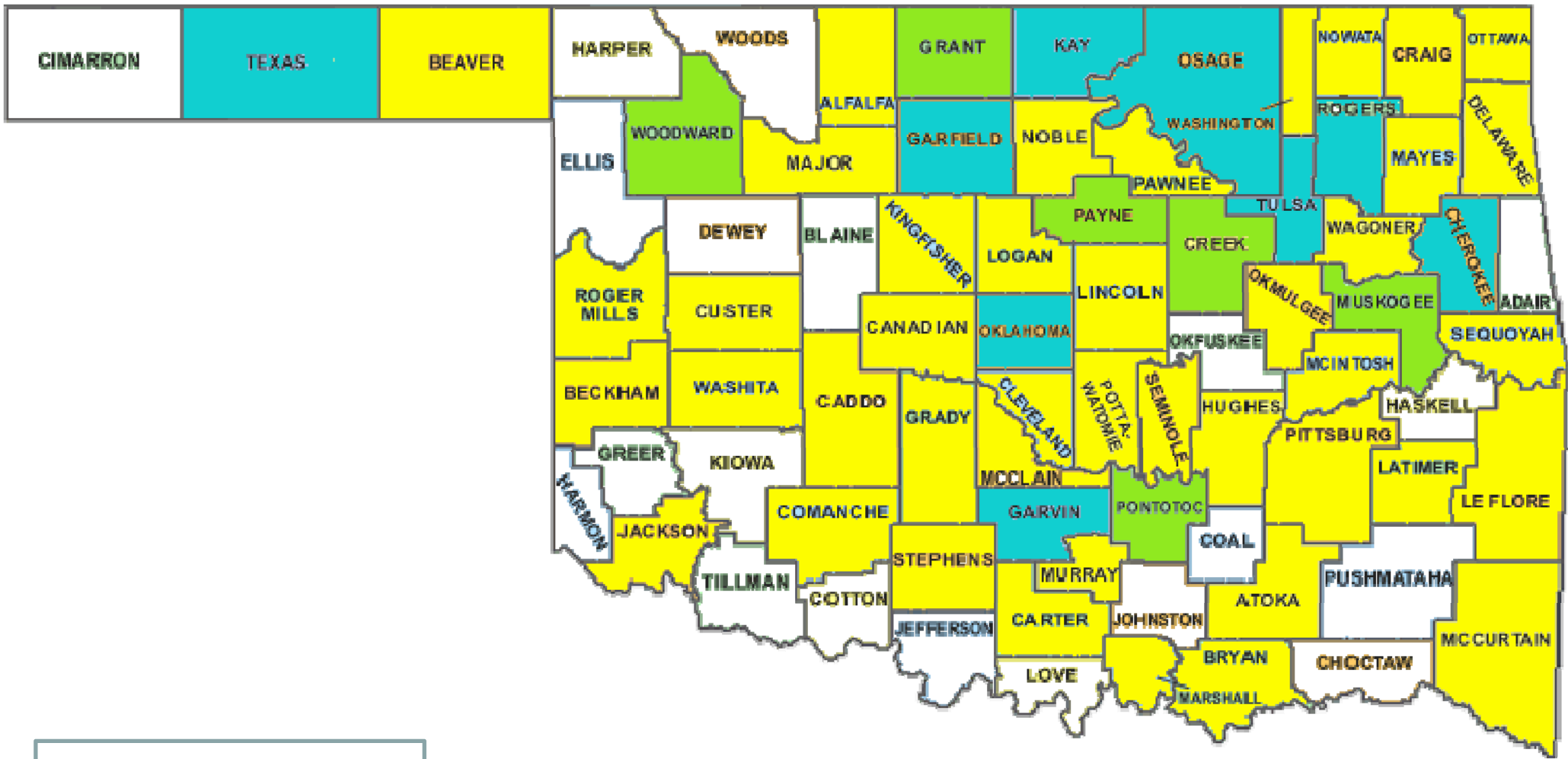
100 - 500 releases

> 500 releases



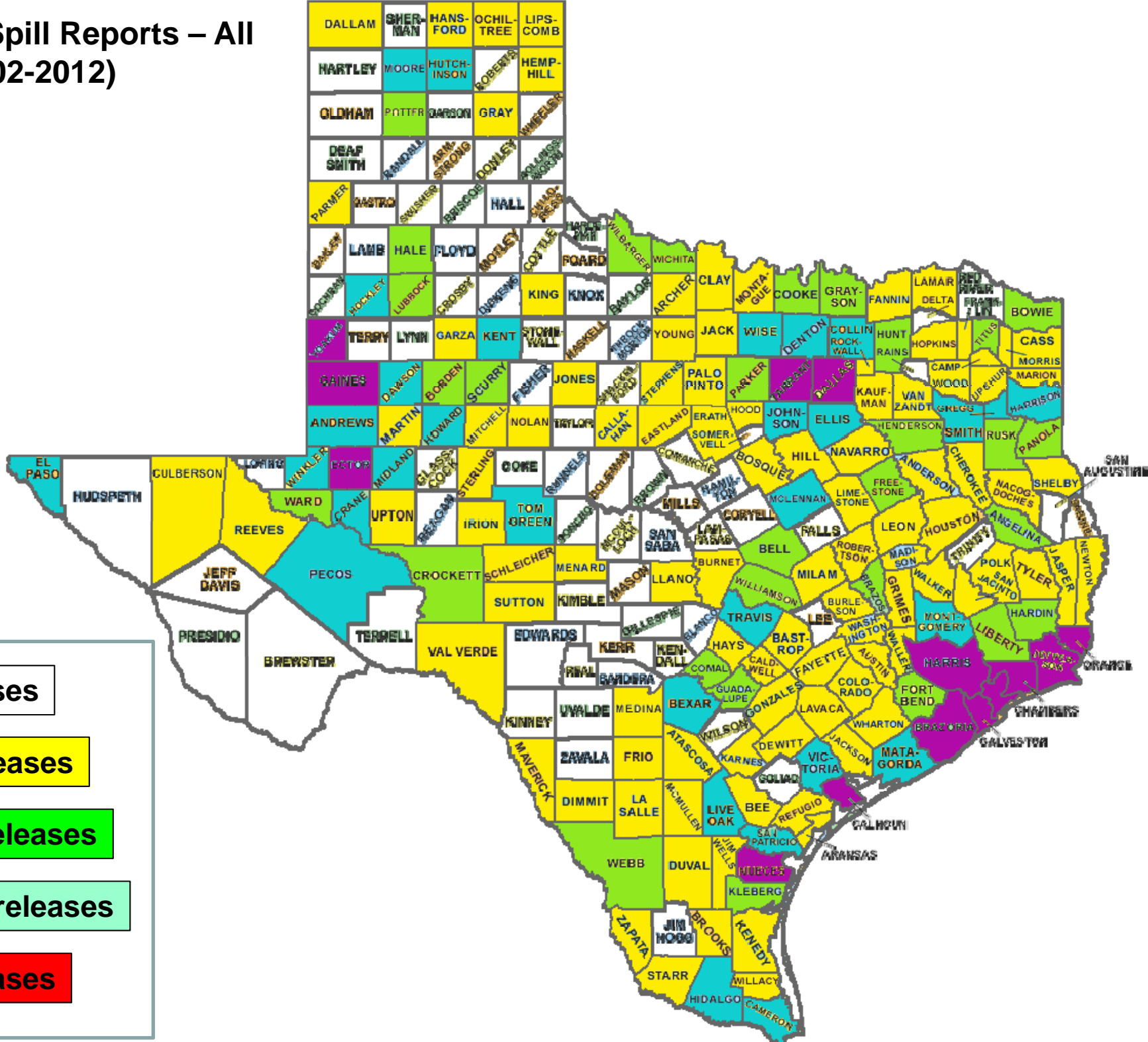
**Region 6 – Spill Reports
– All Reports (2002-2012)**





Region 6 – Spill Reports – All Reports (2002-2012)

Region 6 – Spill Reports – All Reports (2002-2012)



< 10 releases

10 - 50 releases

50 - 100 releases

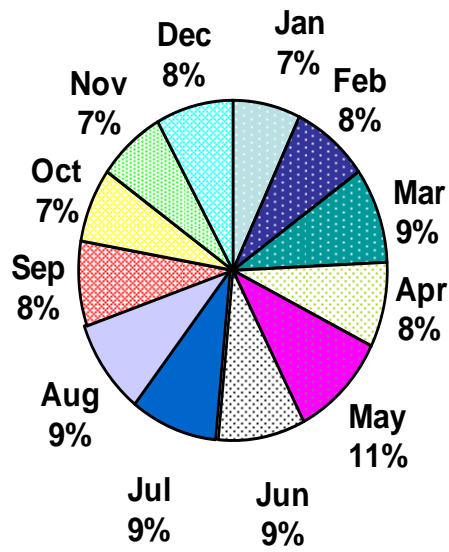
100 - 500 releases

> 500 releases

Since 2006, more release reports to EPA through the National Response Center have originated from Harris County (Greater Houston), Texas, than 47 States

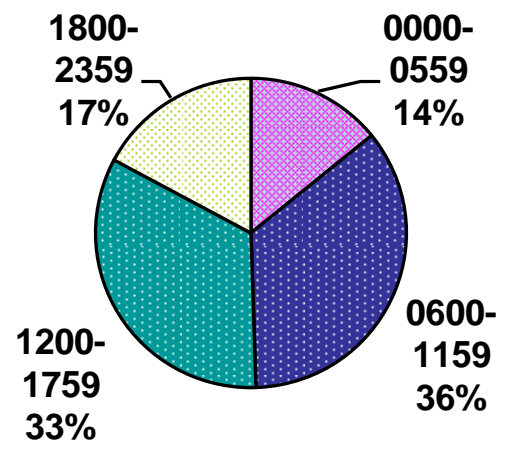
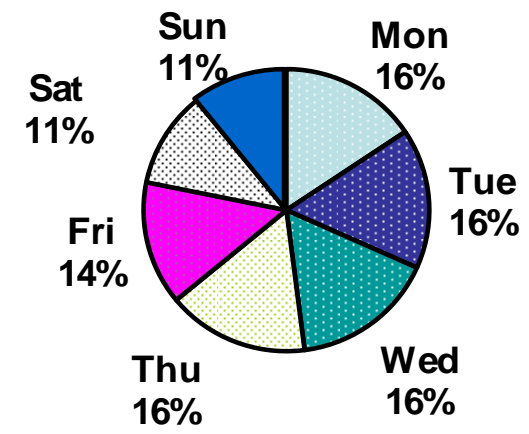
It is truly the center of the Chemical Universe !





Month

Day



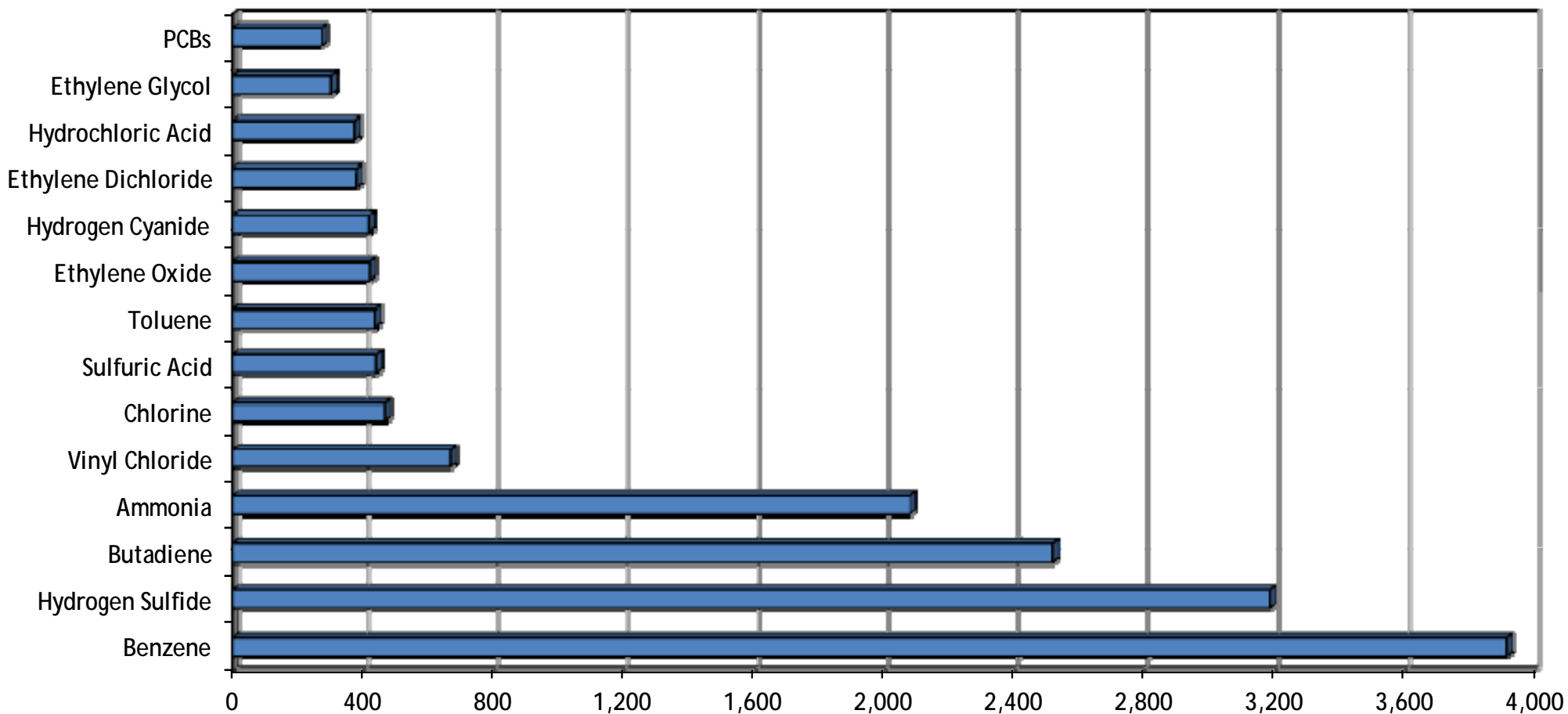
Time

Releases are distributed:

- fairly evenly by month
- less releases on weekend days
- more in middle of day

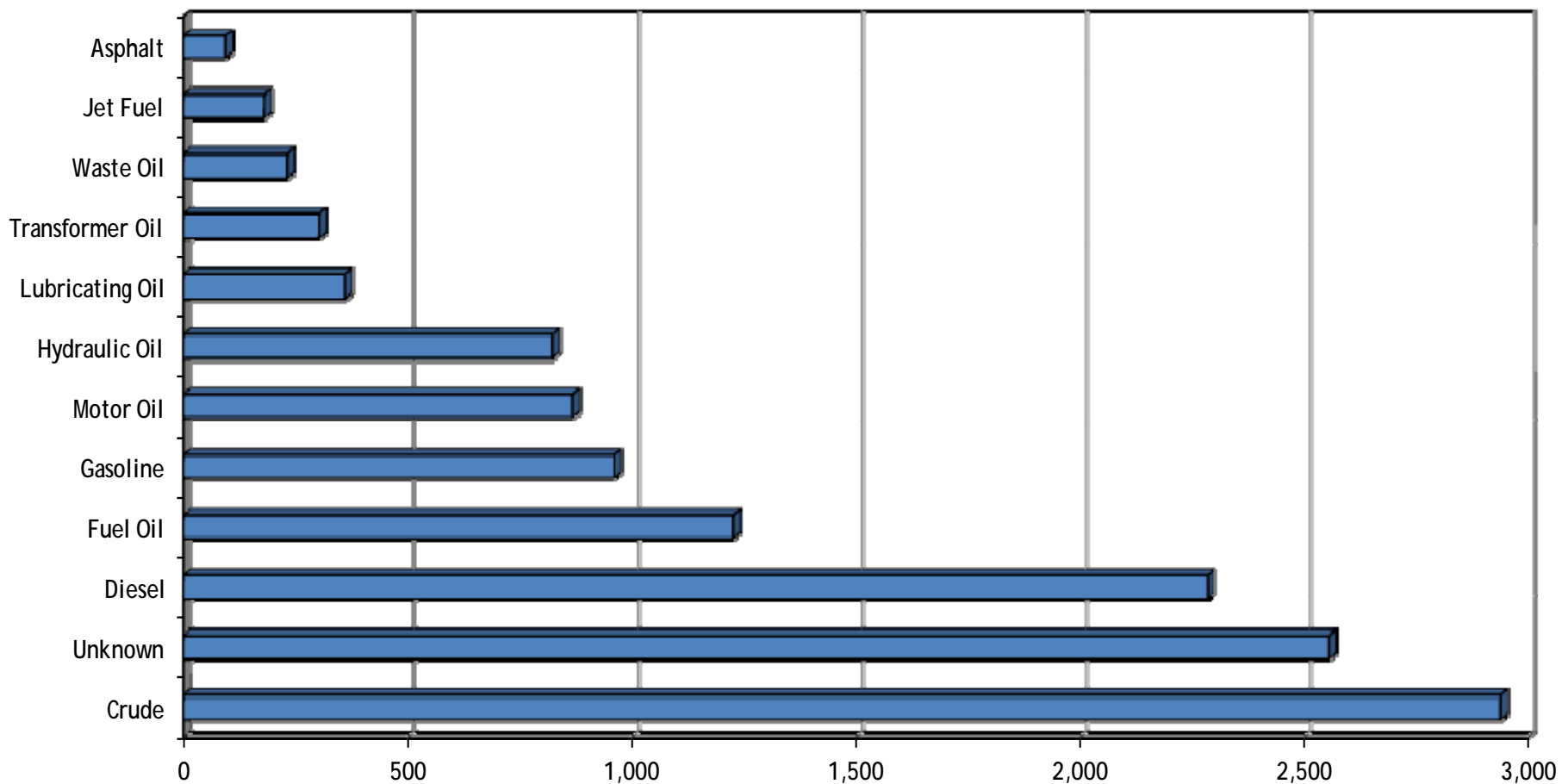
NRC Notifications to EPA Region 6 -- Top Hazardous Materials Released (2002 - 2012)

The 15 materials listed below account for 87 % of all hazardous material releases within Region 6 since 2002

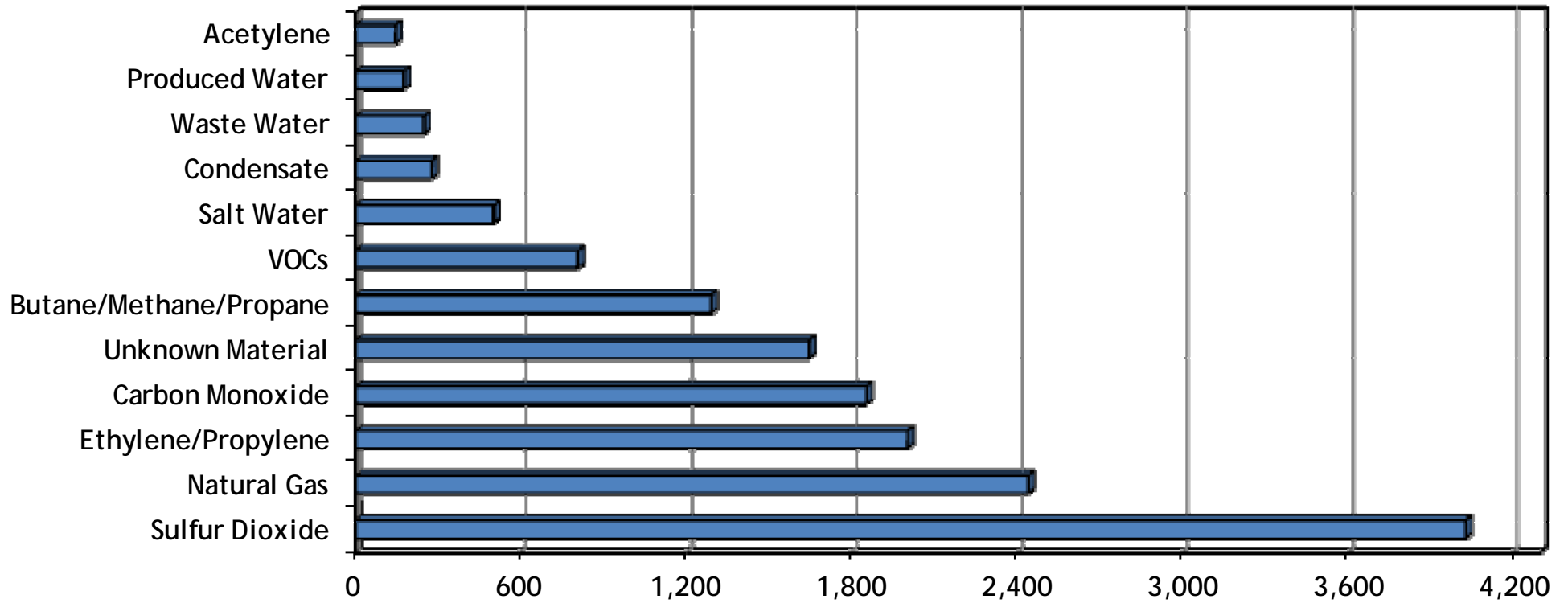


Nitrogen Oxides, Dioxides, Tetroxides, NOX account for 16,504 reports

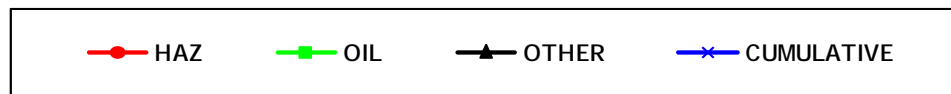
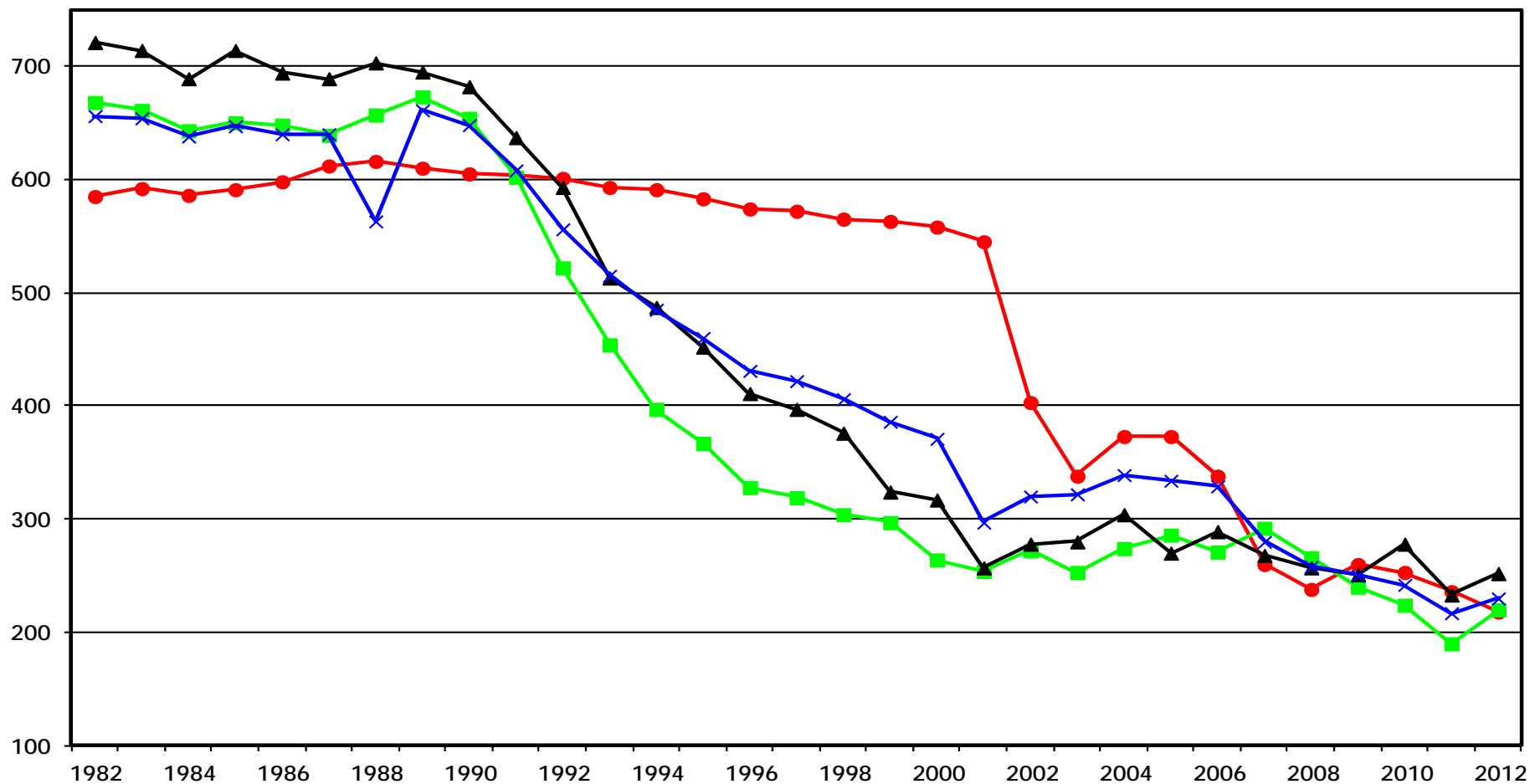
The oil / oil products listed above account for 88 % of all oil / oil product releases within Region 6 since 2002



The materials listed above account for 67 % of all other material releases within Region 6 since 2002



NRC Notifications to EPA Region 6 -- Time from Release to Reported to NRC -- by Year (1982 - 2012)



Hazardous Substances: 585 to 218 minutes
Oil / Oil Products: 668 to 220 minutes
Other / Unknown: 721 to 252 minutes
Cumulative: 656 to 230 minutes

This above indicated decrease over the years can be associated with an aggressive and extensive outreach program under CERCLA, EPCRA, and OPA, as well as a strong Regional enforcement program