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REGION 6 LEPC Update

Celebrating Our 22nd Year



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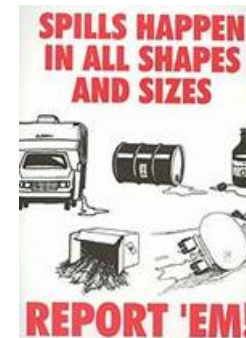
Angie Rothen, Weston Solutions

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Most of you are familiar with the reporting requirements under EPCRA, and CERCLA, which state any facility that accidentally releases into the environment one of the following types of chemicals in an amount greater than or equal to the minimum reportable quantity

- Extremely Hazardous Substances (Emergency Planning and Notification, 40 CFR part 355)
- CERCLA hazardous substances (Designation, Reportable Quantities, and Notification, 40 CFR part 302)

must immediately notify LEPCs and SERCs for any area likely to be affected by the release. In addition, spills of CERCLA hazardous substances must also be reported to the National Response Center.



However, there are other reporting requirements at the federal level involving hazardous materials and oil spills. This Update will outline the reporting responsibilities to the NRC, as well as summarizing the reports that EPA receives through the NRC on a yearly basis. Region 6 EPA has been receiving such reports since 1982, and so we have thousands of reports to analyze some trends.

NRC Background



The primary function of the National Response Center is to serve as the sole national point of contact for reporting all oil, chemical, radiological, biological, and etiological discharges into the environment anywhere in the United States and its territories.

In addition to gathering and distributing spill data for Federal On-Scene Coordinators and serving as the communications center for the National Response Team, the NRC maintains agreements with federal entities to make additional notifications regarding incidents meeting established trigger criteria. The NRC also takes Terrorist/Suspicious Activity Reports and Maritime Security Breach Reports.

Region 6 LEPC Coordinators

Arkansas	Kenny Harmon	501-683-6700	kenny.harmon@adem.arkansas.gov
Louisiana	Gene Dunegan	225-925-6113	gene.dunegan@dps.la.gov
New Mexico	Lee Shin	505-476-0618	lee.shin@state.nm.us
Oklahoma	Tom Bergman Bonnie McKelvey	405-702-1013 405-521-2481	tom.bergman@deqmail.state.ok.us bonnie.mckelvey@oem.ok.gov
Texas	Bernadine Zimmerman Don Hall	800-452-2791 512-424-5985	Bernadine.zimmerman@dshs.state.tx.us Donald.hall@txdps.state.tx.us

On behalf of the Department of Homeland Security and the United States Coast Guard, the National Response Center:

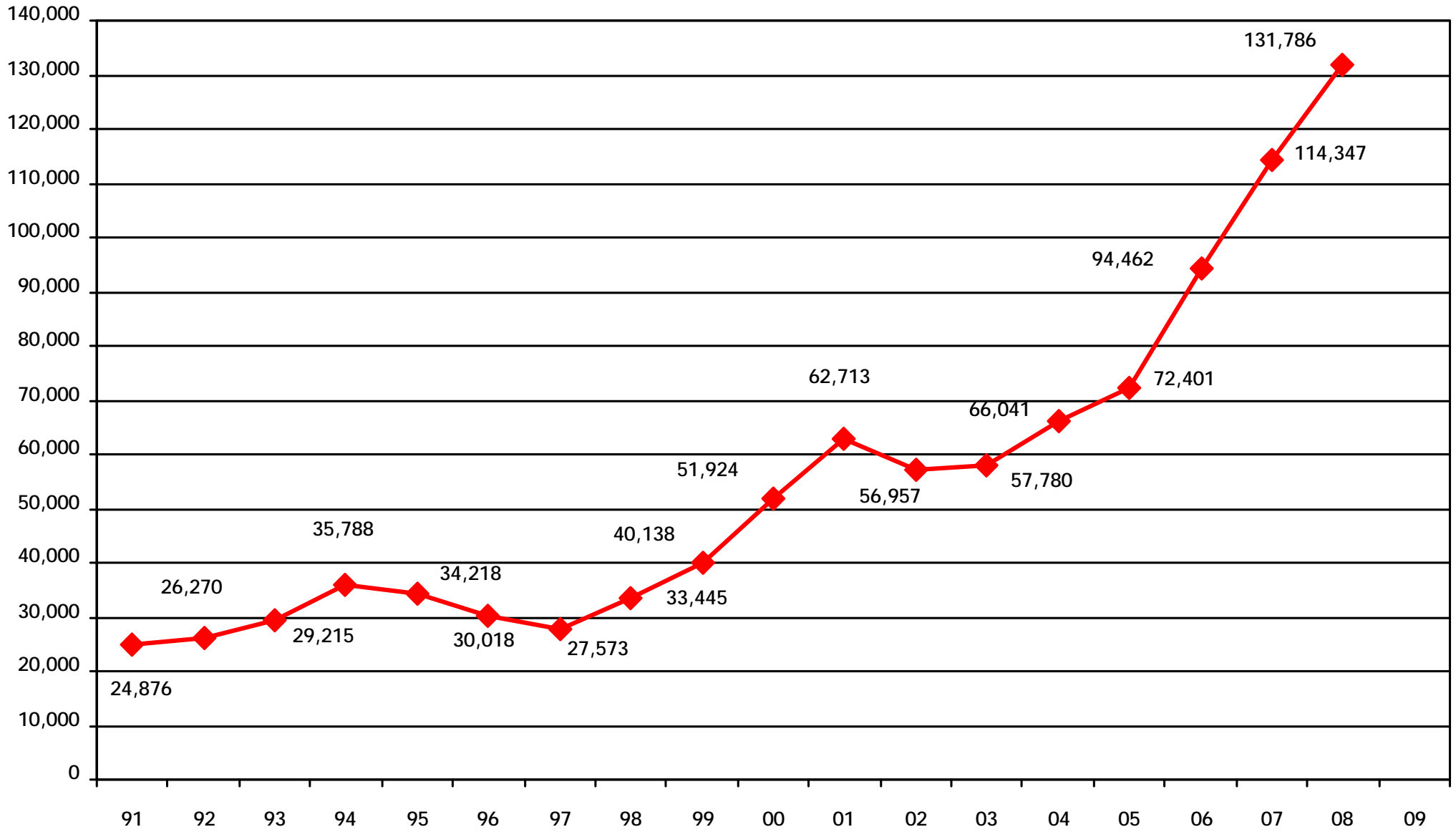
- Briefs the White House, Office of Homeland Security, Secretary of Transportation, and Chiefs of Modal Administrations regarding all significant transportation emergencies reported to the Center;
- Provides information the Coast Guard's Office of Marine Safety, Security, and Environmental Protection as needed for a variety of reports, studies, or Congressional Inquiries;
- Receives and relays reports of incidents reportable under the Hazardous Materials Transportation Act;
- Provides electronic and hard copy incident reports to various DOT agencies;
- And provides notification to specific DOT and National Transportation Safety Board offices of transportation related incidents that meet certain pre-established criteria.

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

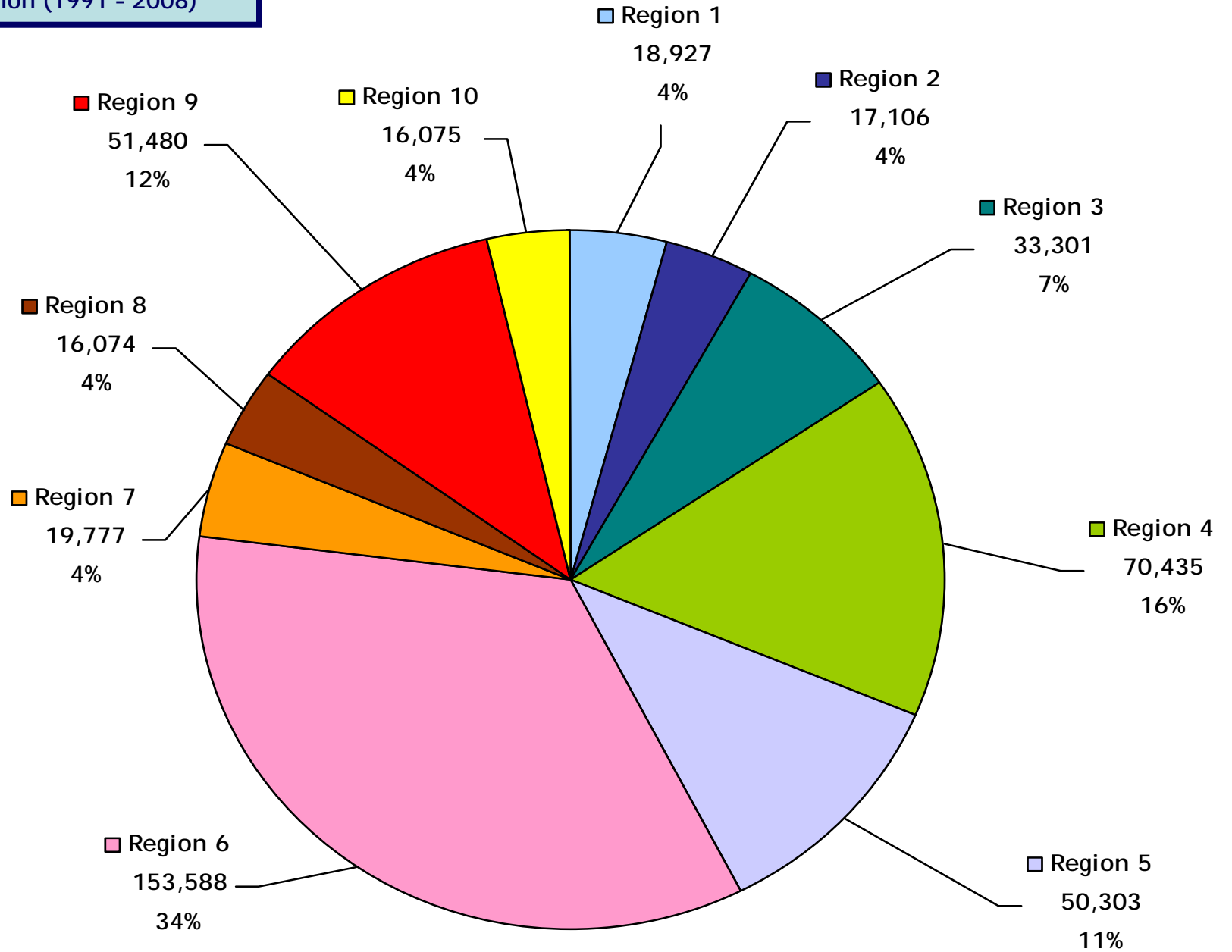
- For the Environmental Protection Agency, the NRC receives incident reports under the Federal Response System (FRS) which is supported under the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA), Clean Water Act, Clean Air Act, SARA Title III, and the Oil Pollution Act of 1990. The NRC disseminates telephonic and electronic (fax, email) reports of oil discharges and chemical releases to the cognizant EPA Federal On-Scene Coordinator (FOSC);
- For the Federal Emergency Management Agency, the NRC acts as a 24 hour contact point to receive earthquake, flood, hurricane, and evacuation reports;
- For the Nuclear Regulator Commission, and the Department of Energy, the NRC makes telephonic notification of all incidents involving radioactive material releases to the environment;
- For the Department of Interior, the NRC receives reports of incidents involving Trans-Alaskan Pipeline Oil and electronically forwards the reports to the appropriate DOI representative;
- For the Department of Defense, incidents involving transportation emergencies with DOD munitions or explosives are recorded and referred for action to the Army Operations Center. Any transportation anomaly involving hypergolic rocket fuels and oxidizers are recorded and immediately passed to the Air Force Operations Center.
- The NRC established the Domestic Preparedness Chemical/Biological Hotline in conjunction with DOD and DOJ. The NRC takes reports via the toll-free number on potential or actual domestic terrorism and coordinates notifications and response with the Soldier and Biological Chemical Command (SBCCOM) and the Federal Bureau of Investigation;
- For the Department of Health and Human Services, releases of etiological and biological agents are recorded at the NRC and referred to the Centers for Disease Control;
- For the Federal Railroad Administration, the NRC maintains the 24 hour Rail Emergency Hotline (1-800-424-0201) to take reports of railroad incidents involving hazardous materials, grade crossing fatalities, accidents resulting in injury or death of railroad employees, and the refusal of railroad employees to submit to required toxicological testing.
- Additionally, the NRC is the contact point for activation of the National Response Team and provides facilities for the NRT to use in coordinating a national response action when required



NRC Notifications Nationally / EPA & USCG (1991 - 2008)

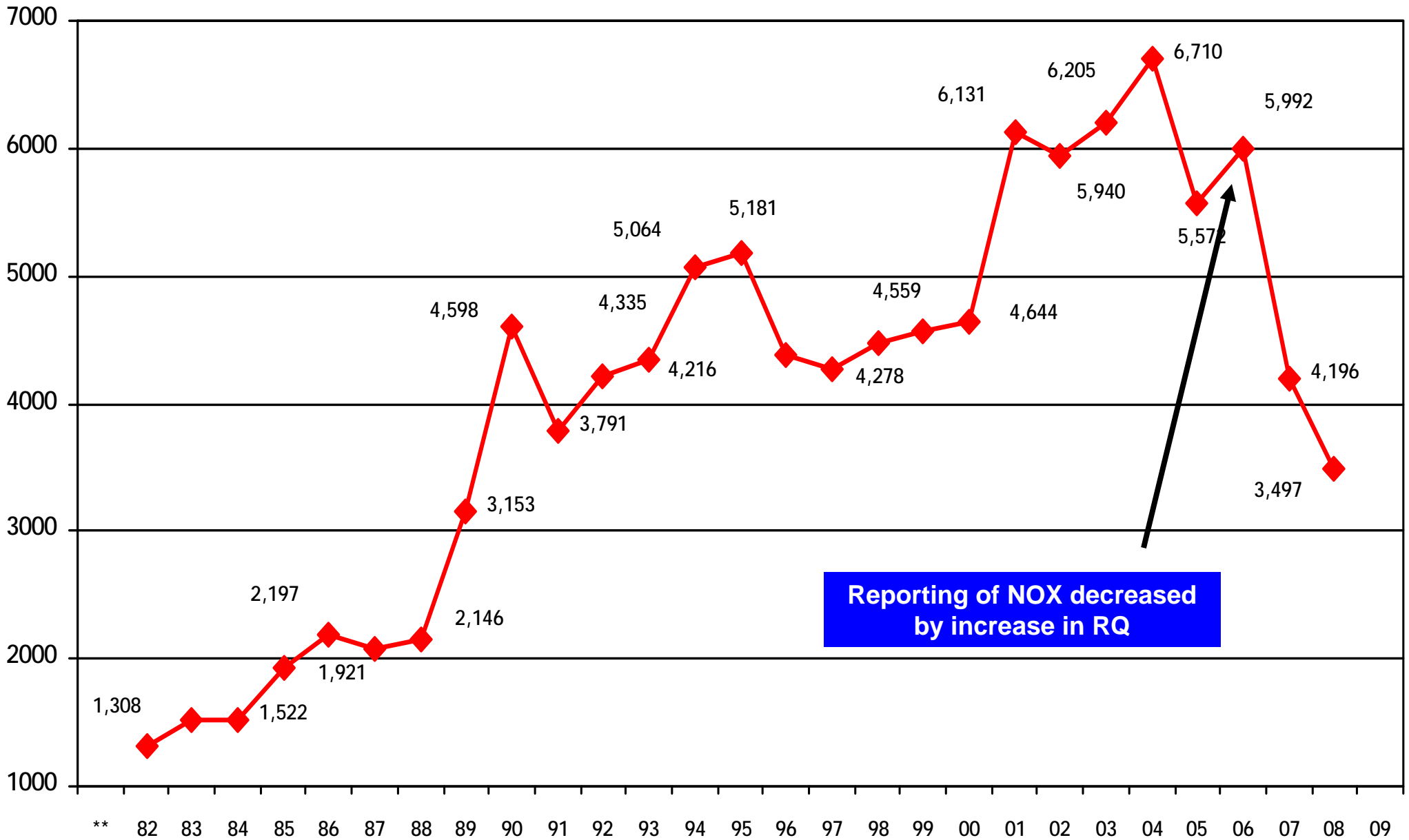


EPA Notifications per Region (1991 - 2008)



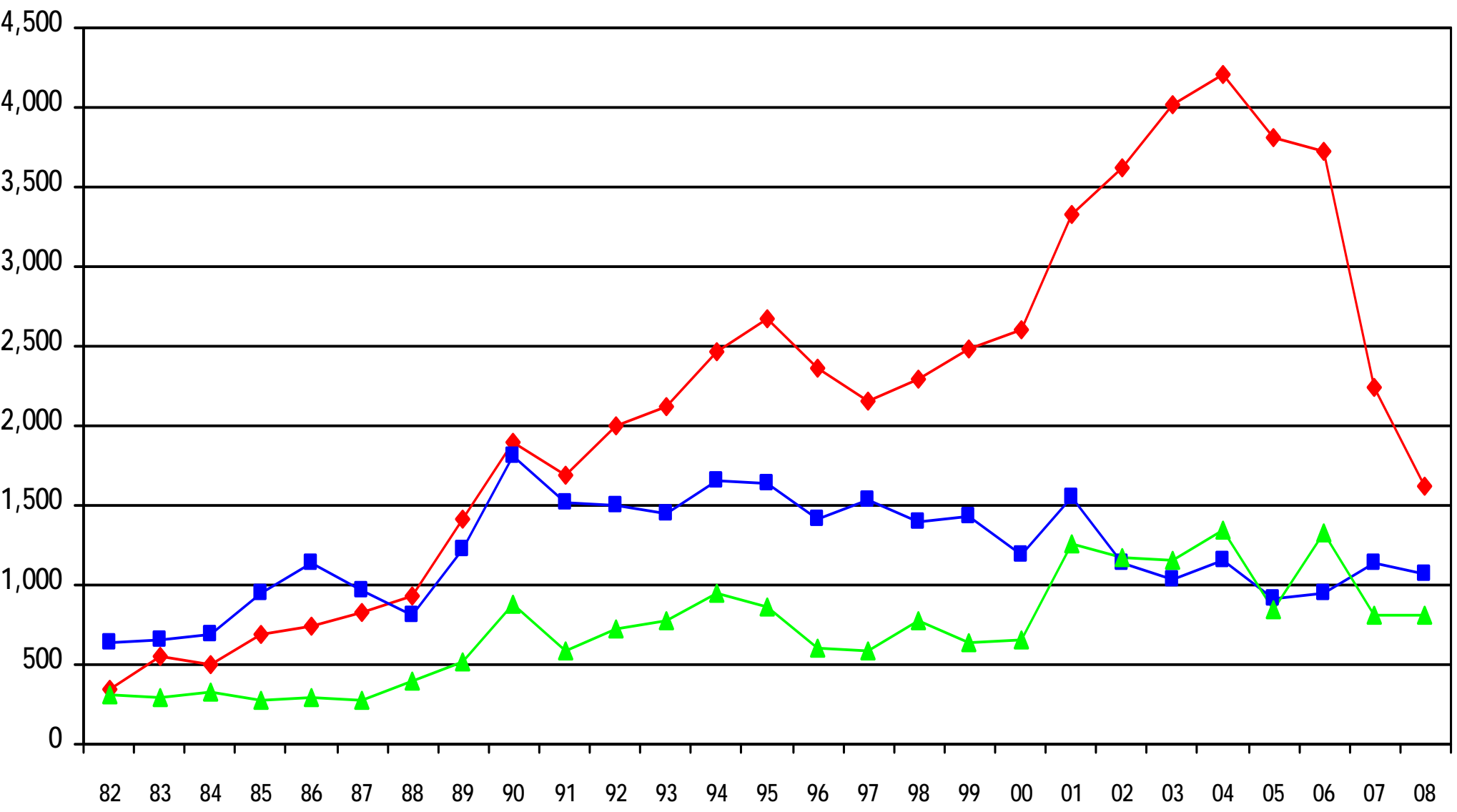
Reflects all reports to National Response Center over period (1991 - 2008)

NRC Notifications to EPA Region 6 (1982 - 2008)



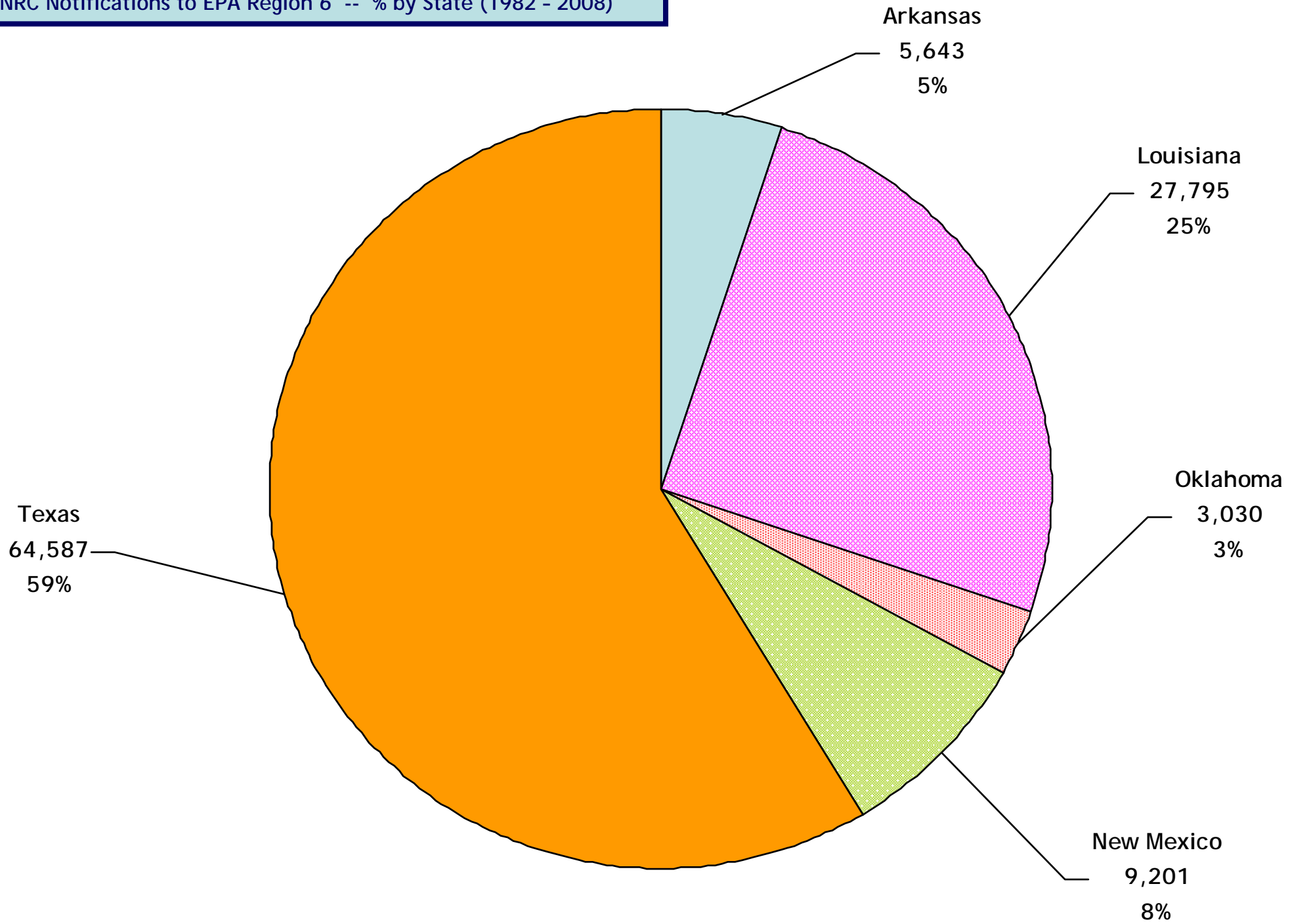
Reporting of NOX decreased by increase in RQ

NRC Notifications to EPA Region 6 -- by Material Type (1982 - 2008)

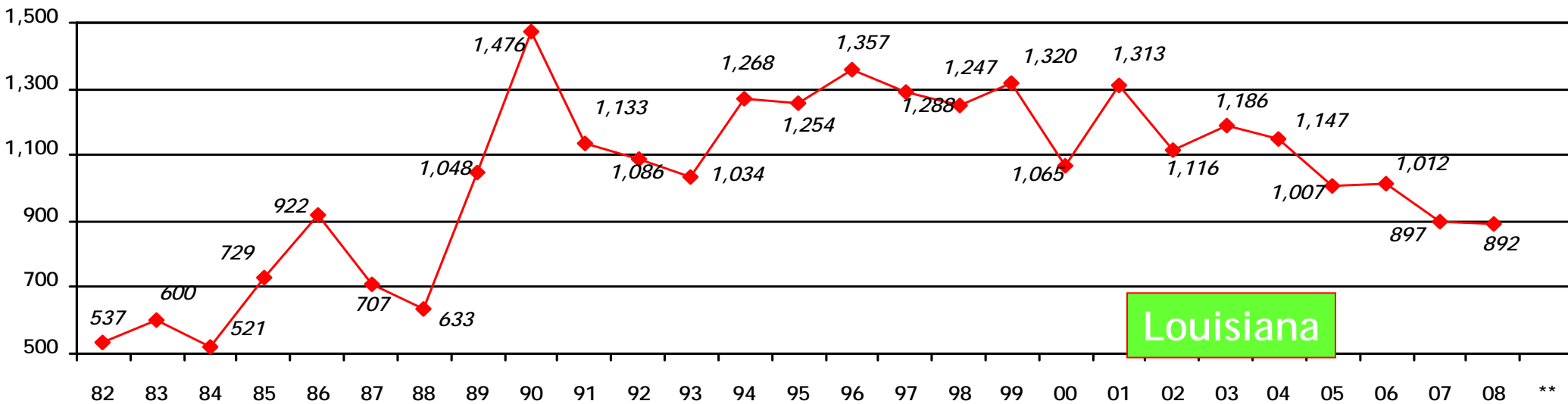
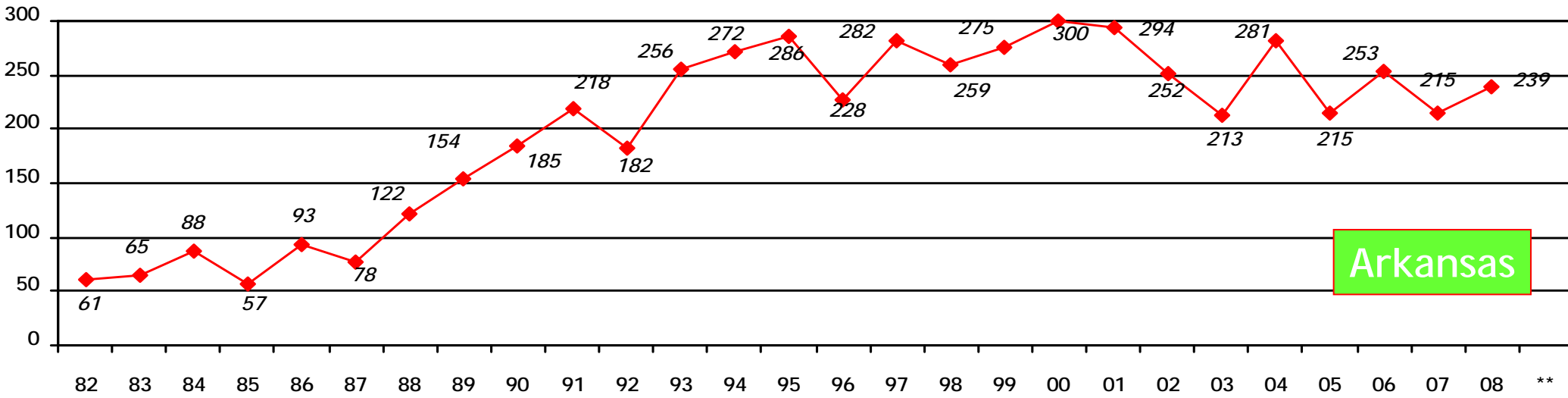


◆ Hazardous Materials ■ Oil / Oil Products ▲ Other / Unknown

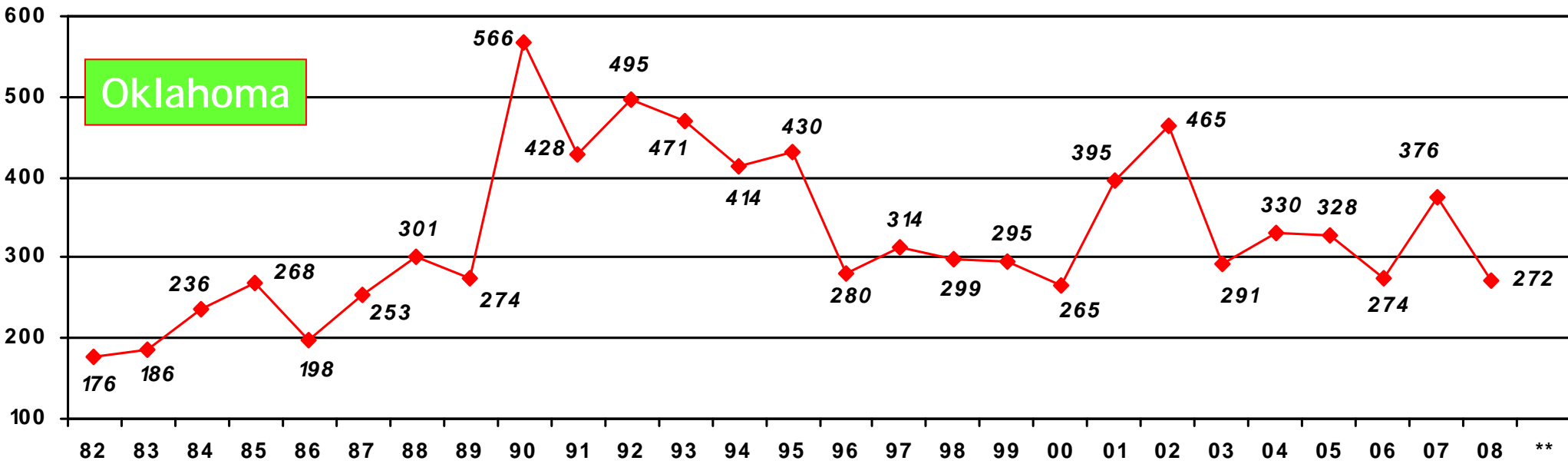
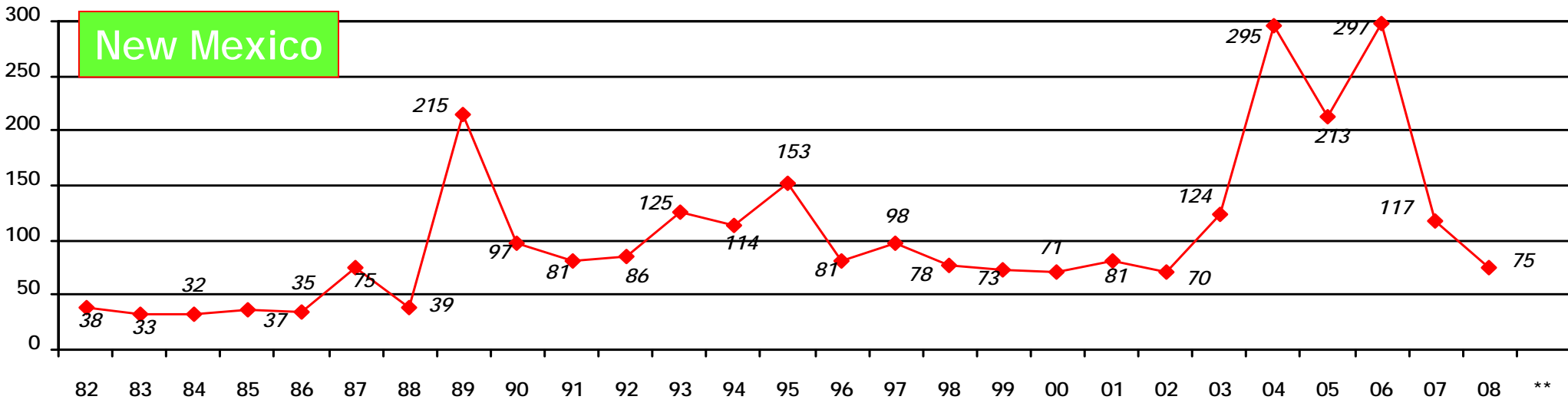
NRC Notifications to EPA Region 6 -- % by State (1982 - 2008)



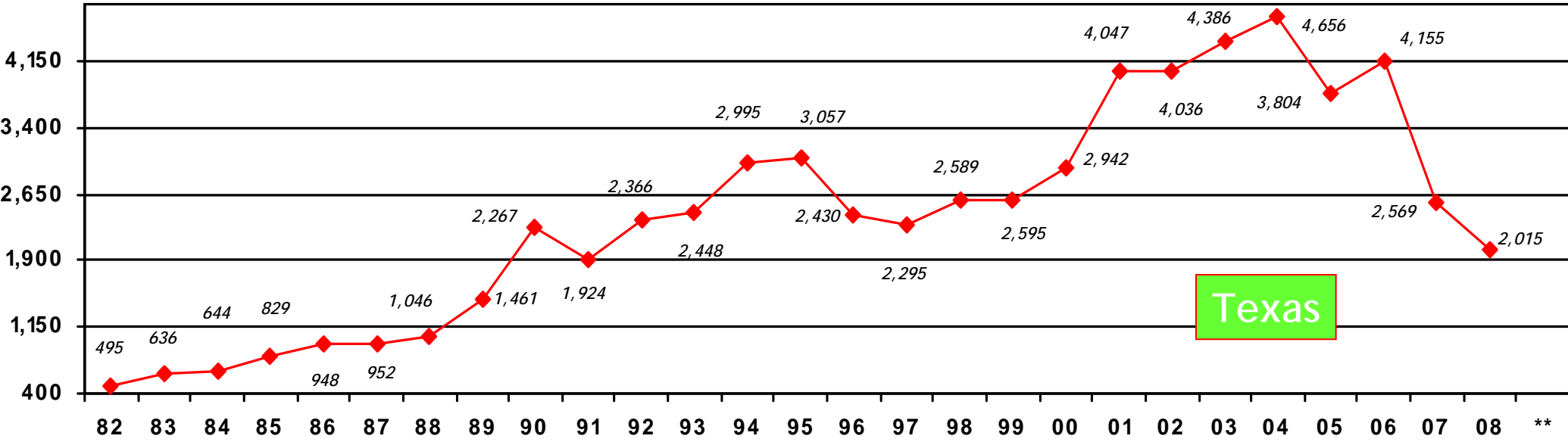
NRC Notifications to EPA Region 6 -- by State and Year (1982 - 2008)



NRC Notifications to EPA Region 6 -- by State and Year (1982 - 2008)

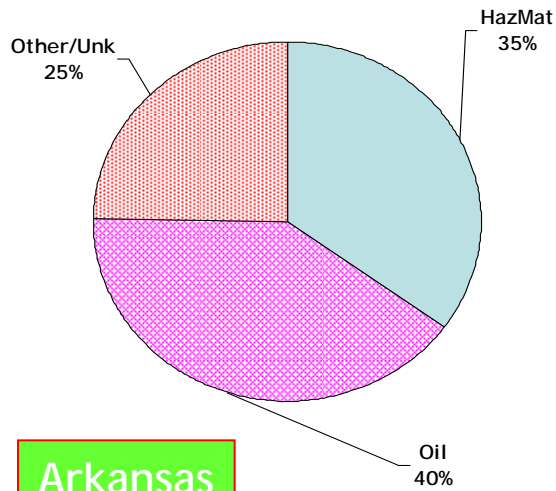


NRC Notifications to EPA Region 6 -- by State and Year (1982 - 2008)

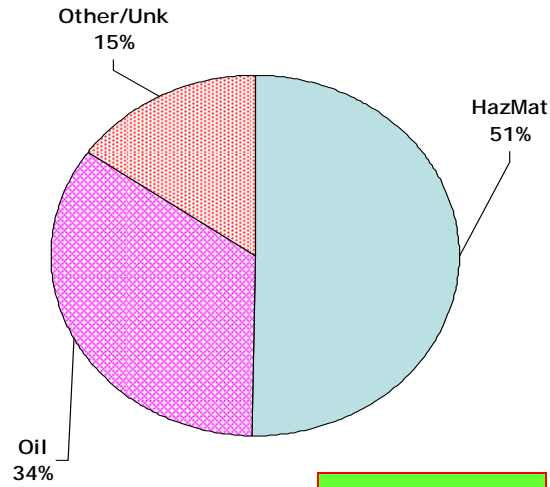


Texas

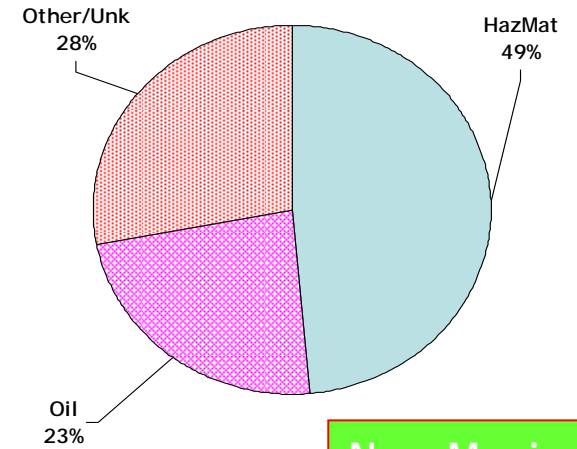
NRC Notifications to EPA Region 6 -- by Material Type & State (1982 - 2008)



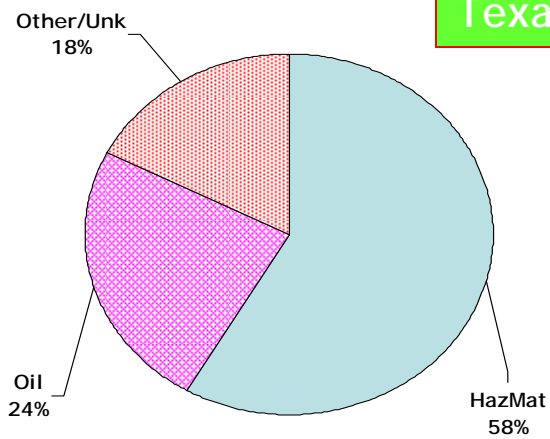
Arkansas



Louisiana

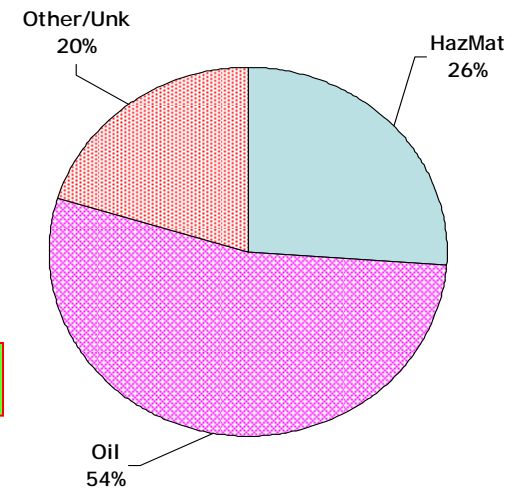


New Mexico

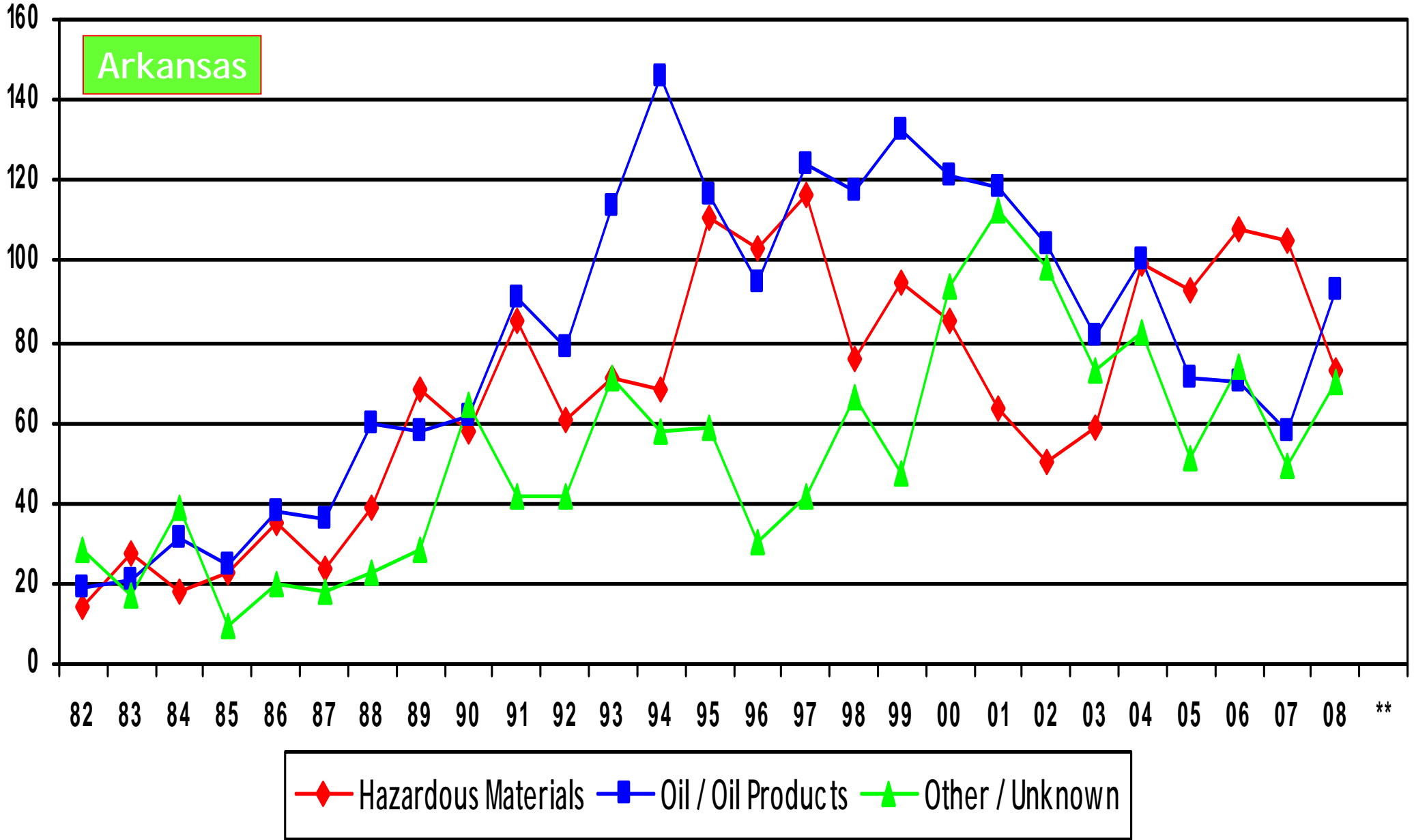


Texas

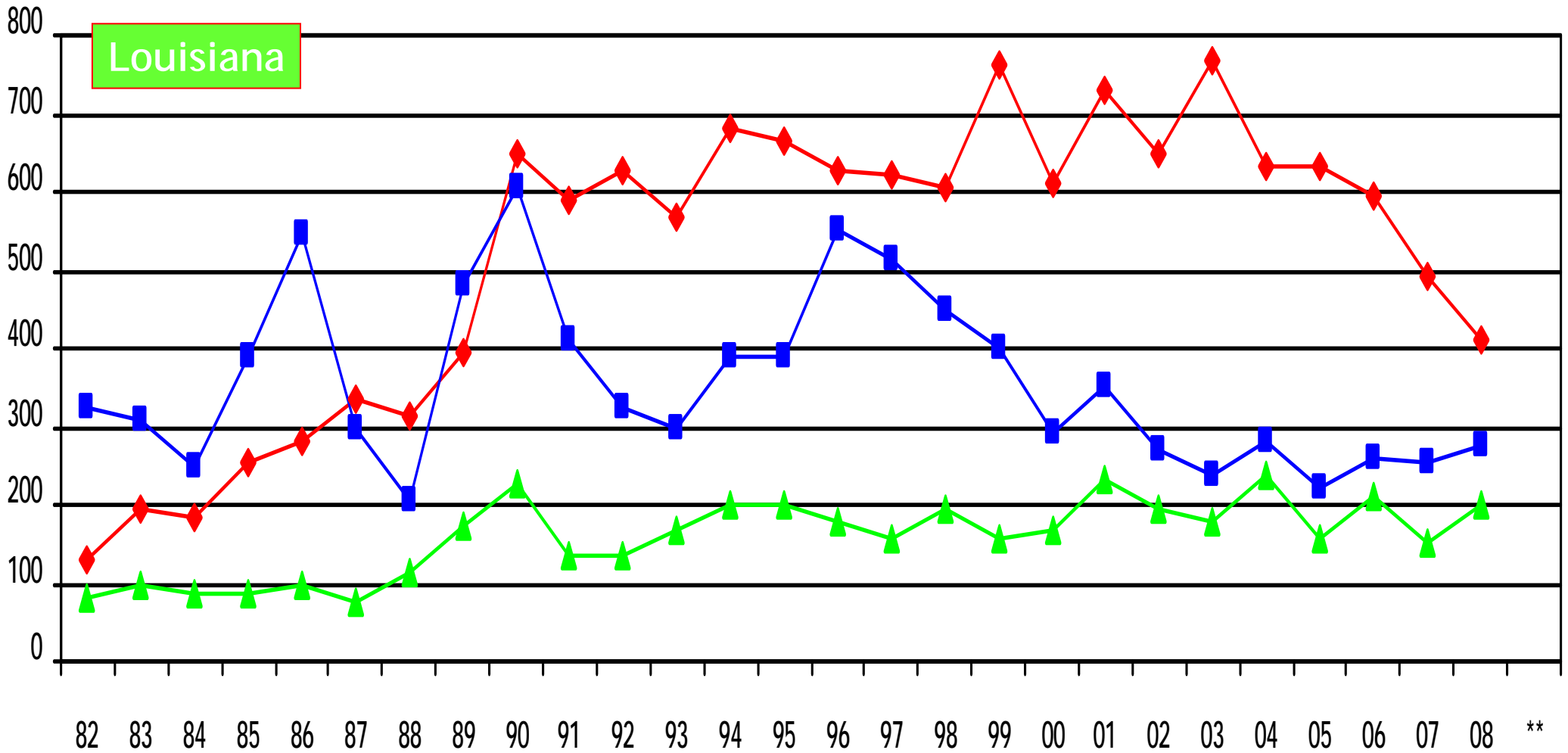
Oklahoma



NRC Notifications for Arkansas -- by Year and Material Type (1982 - 2008)

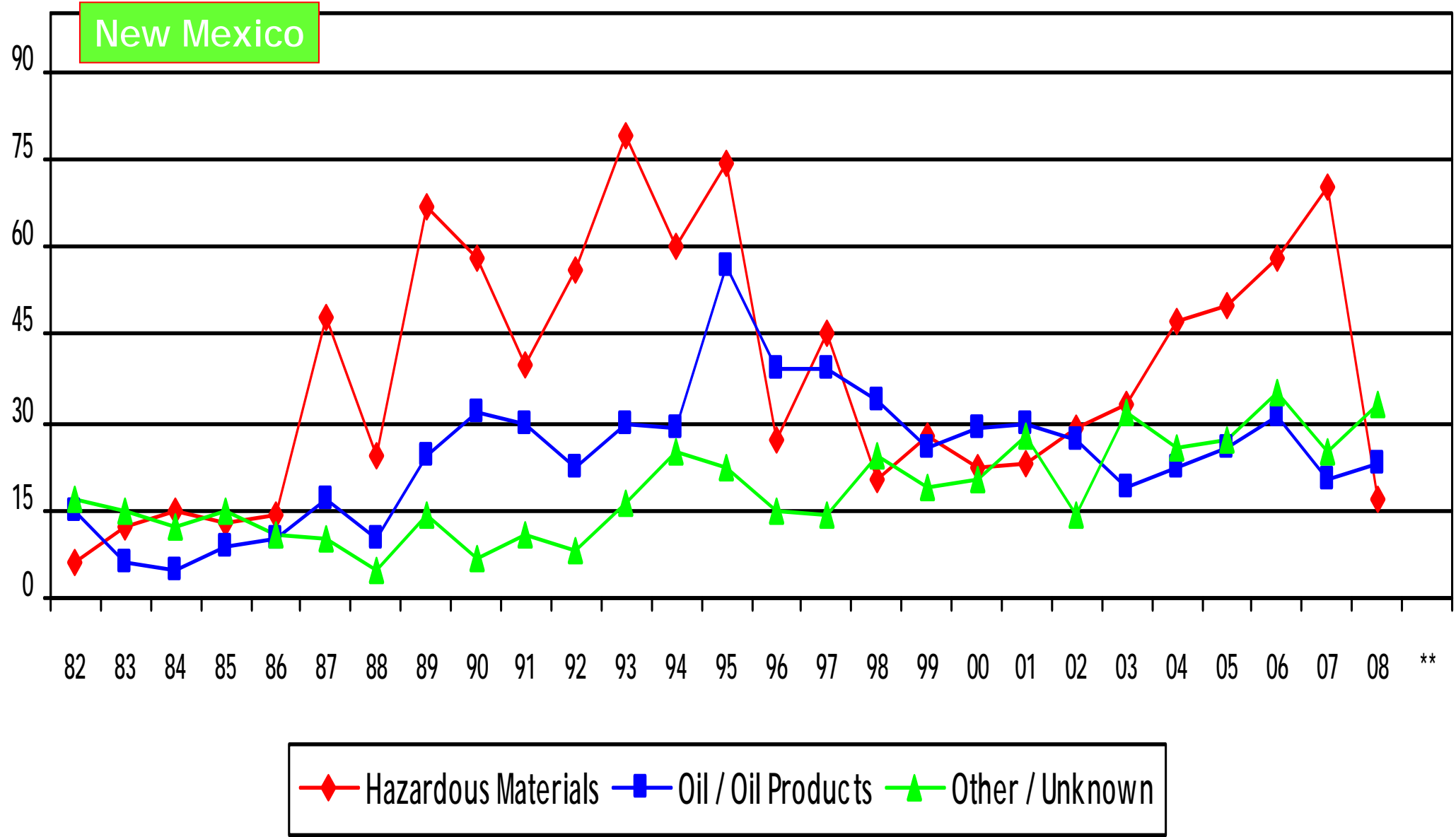


NRC Notifications for Louisiana -- by Year and Material Type (1982 - 2008)

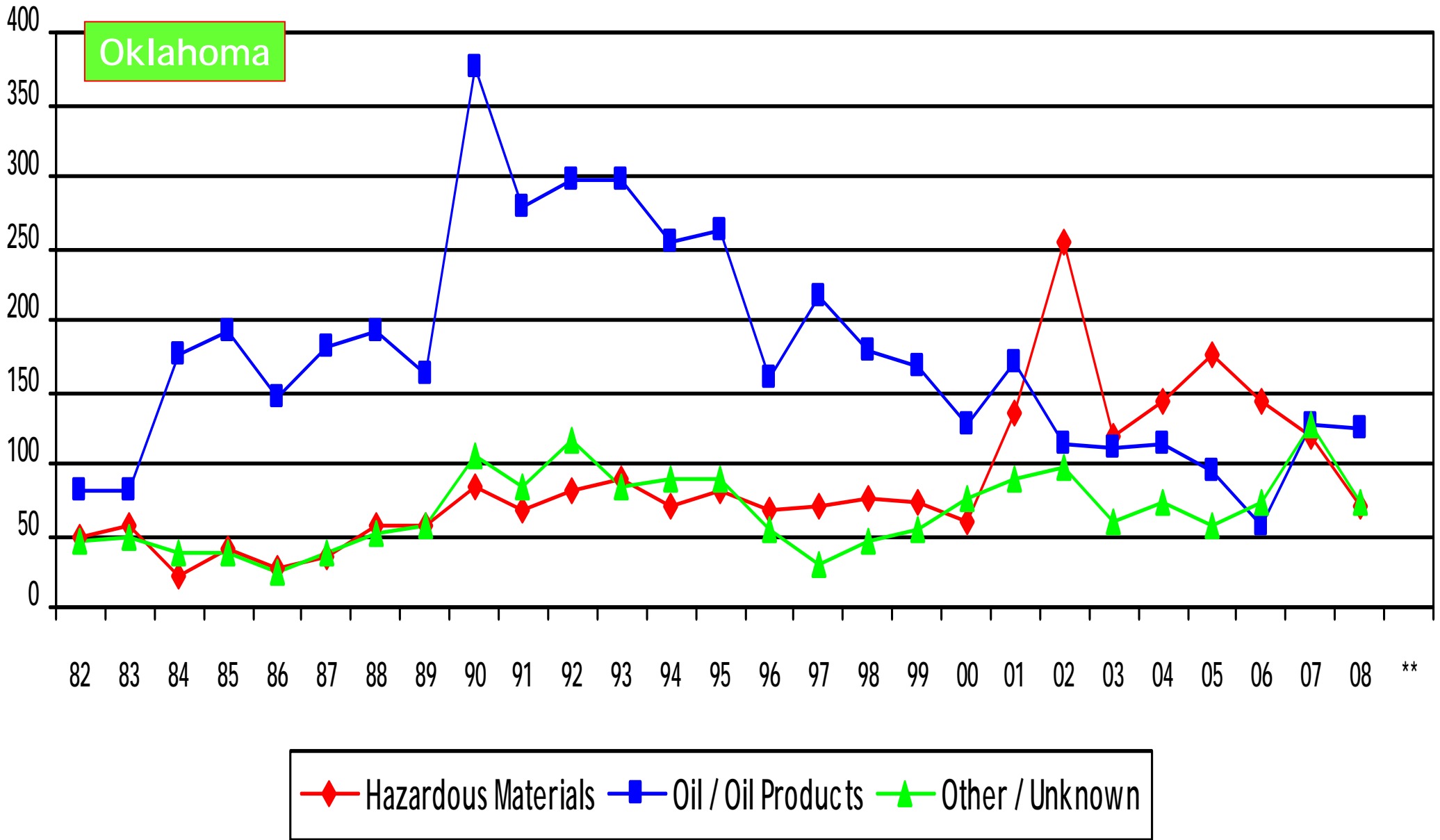


◆ Hazardous Materials
 ■ Oil / Oil Products
 ▲ Other / Unknown

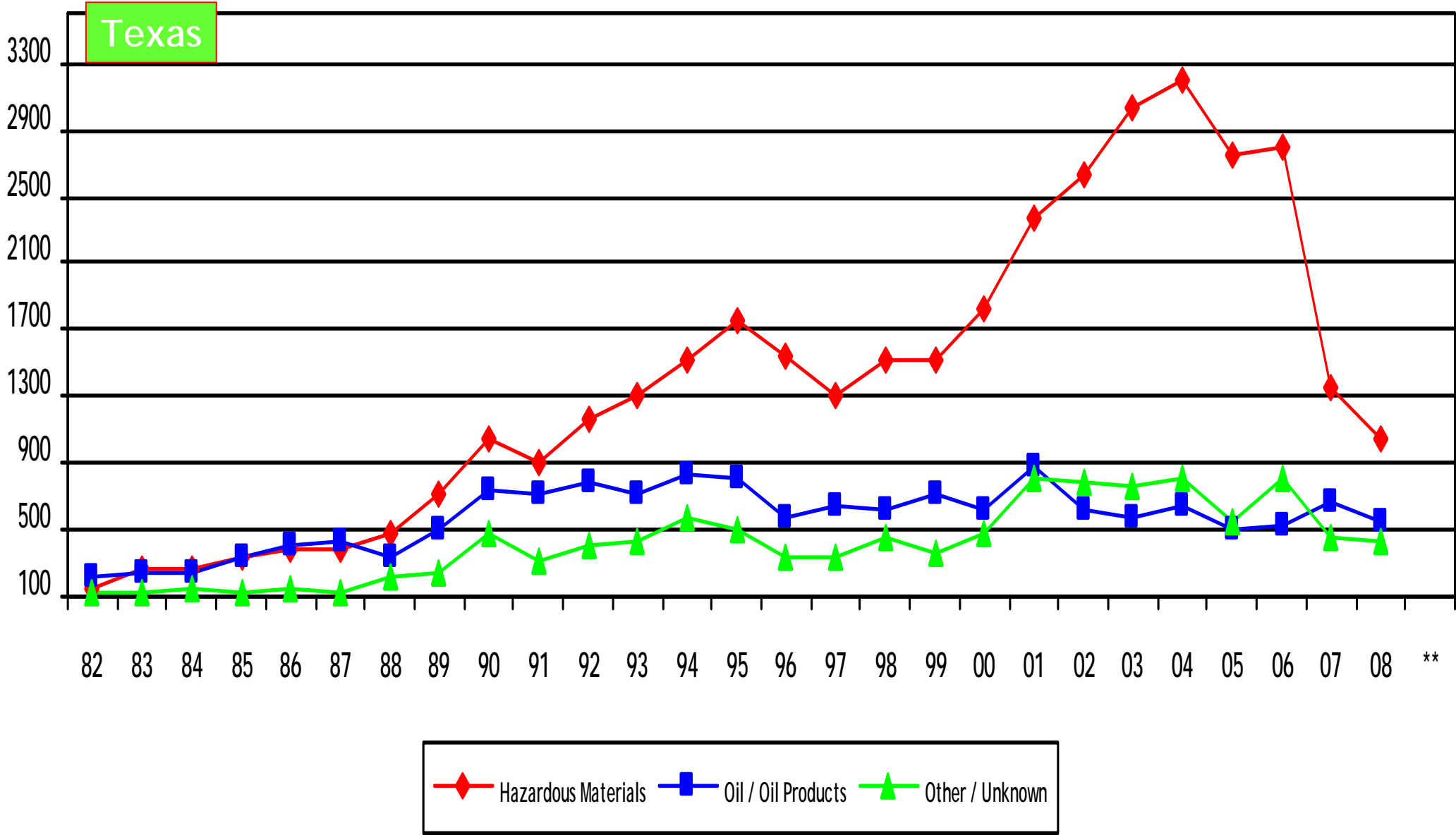
NRC Notifications for New Mexico -- by Year and Material Type (1982 - 2008)



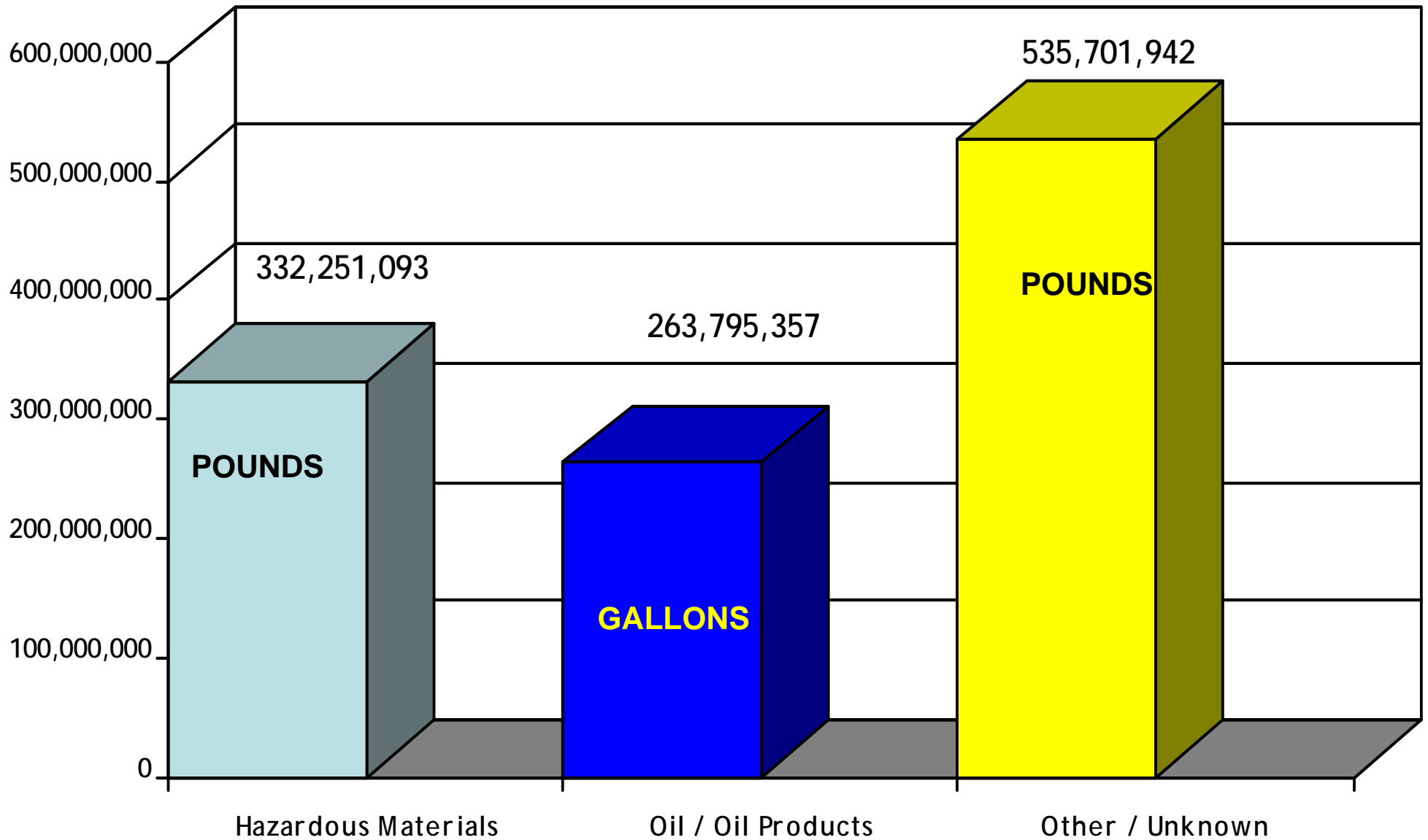
NRC Notifications for Oklahoma -- by Year and Material Type (1982 - 2008)



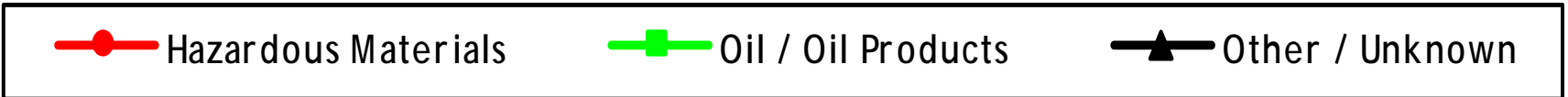
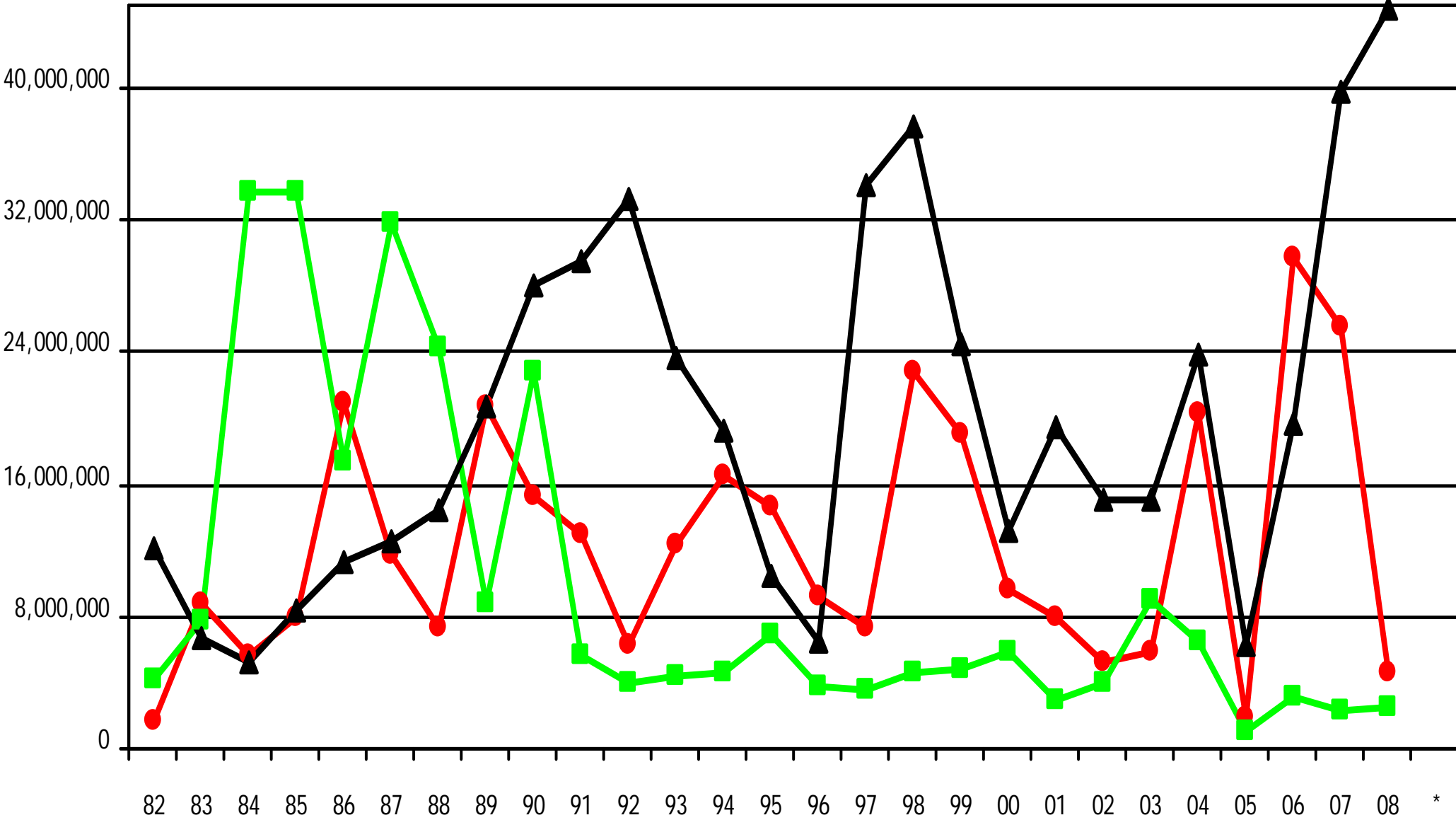
NRC Notifications for Texas -- by Year and Material Type (1982 - 2008)



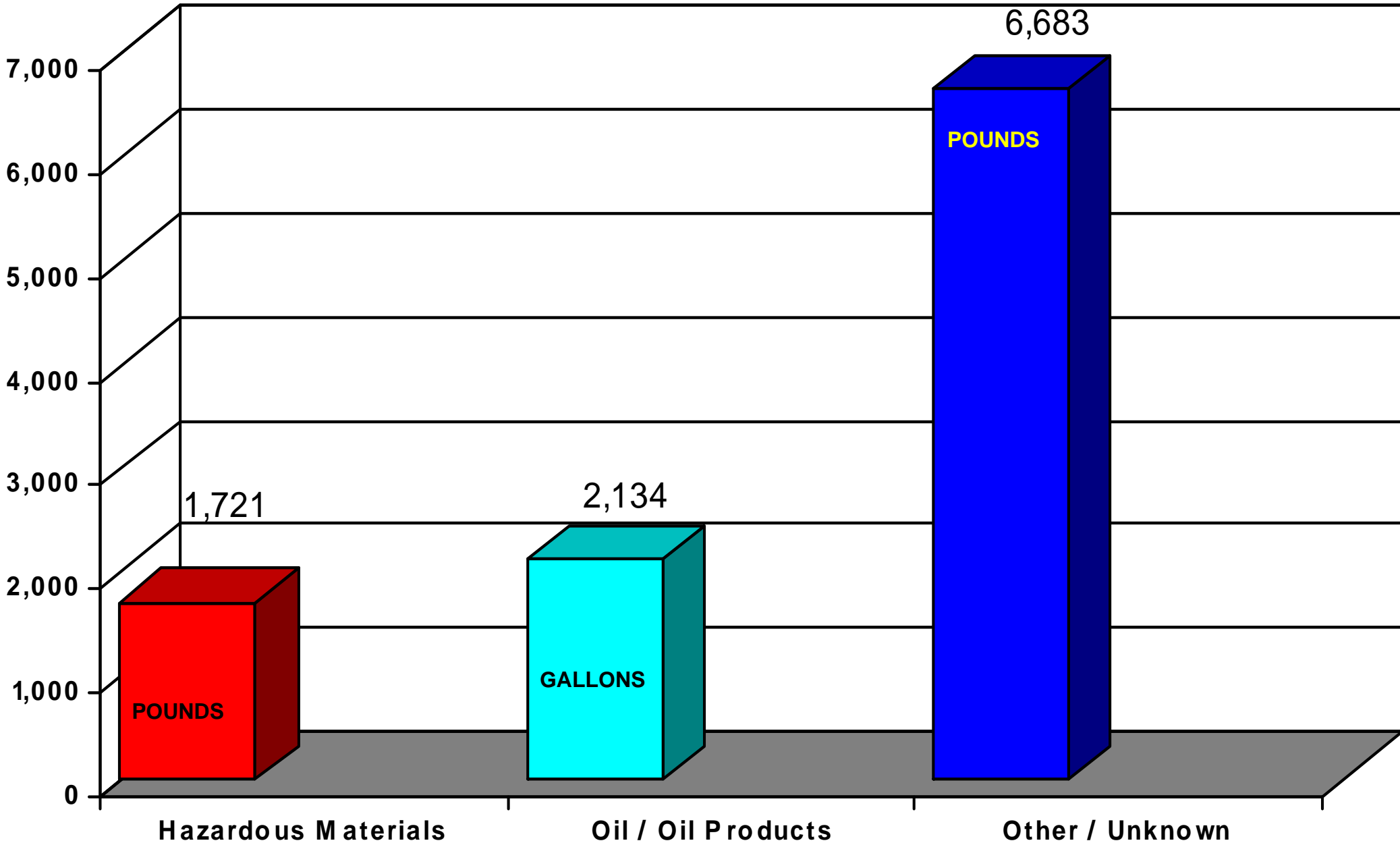
NRC Notifications to EPA Region 6 -- Total Amount Released by Type (1982 - 2008)



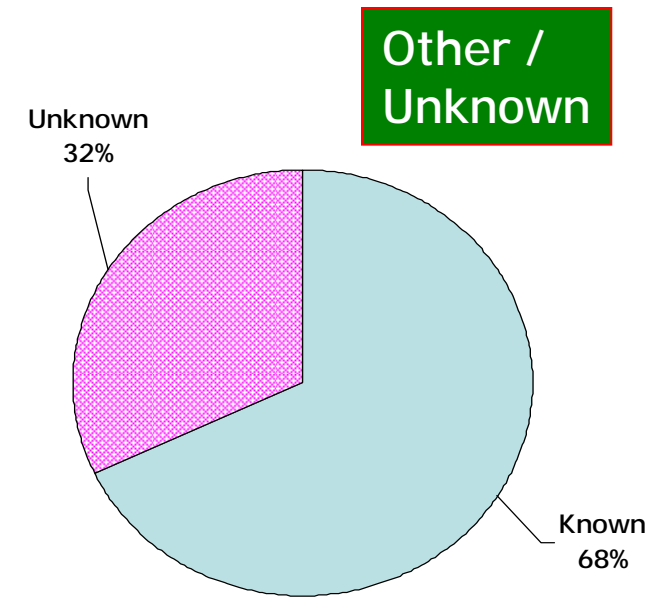
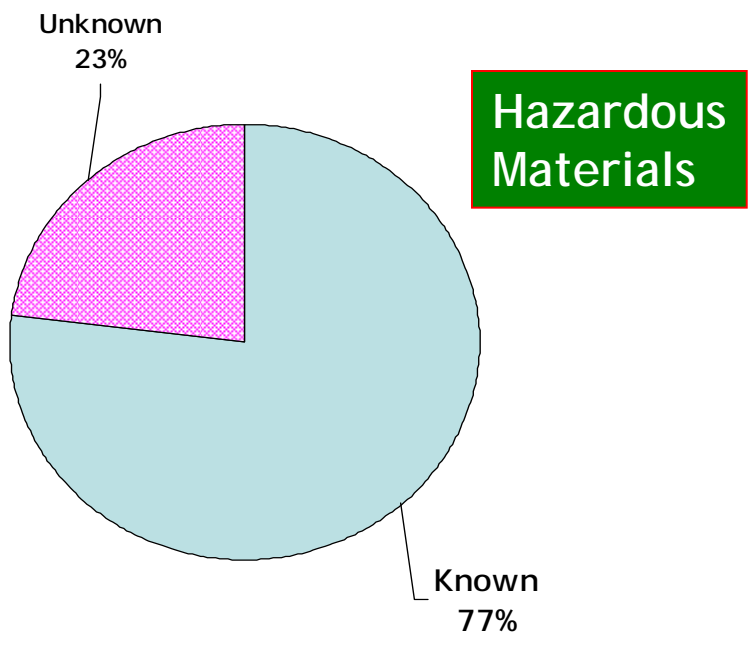
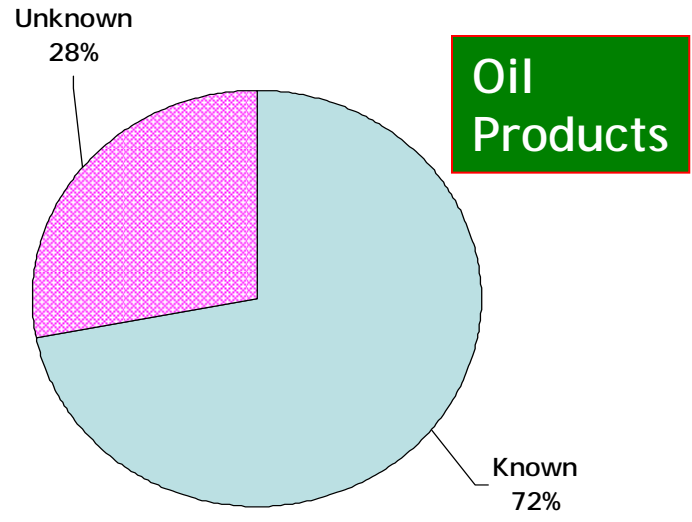
NRC Notifications to EPA Region 6 -- Amount Released by Year & Type (1982 - 2008)



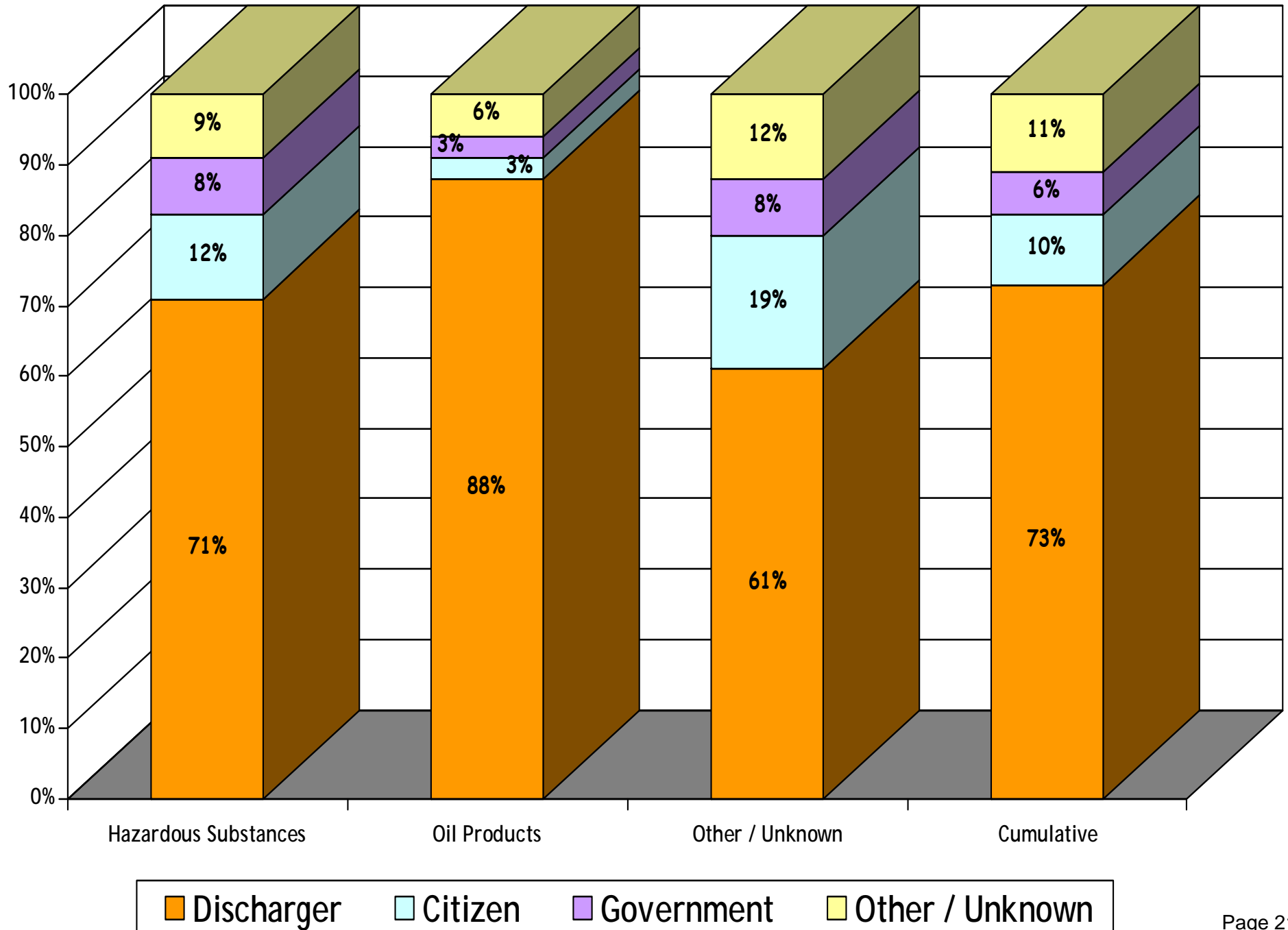
NRC Notifications to EPA Region 6 -- Average Amount Released by Type (1982 - 2008)



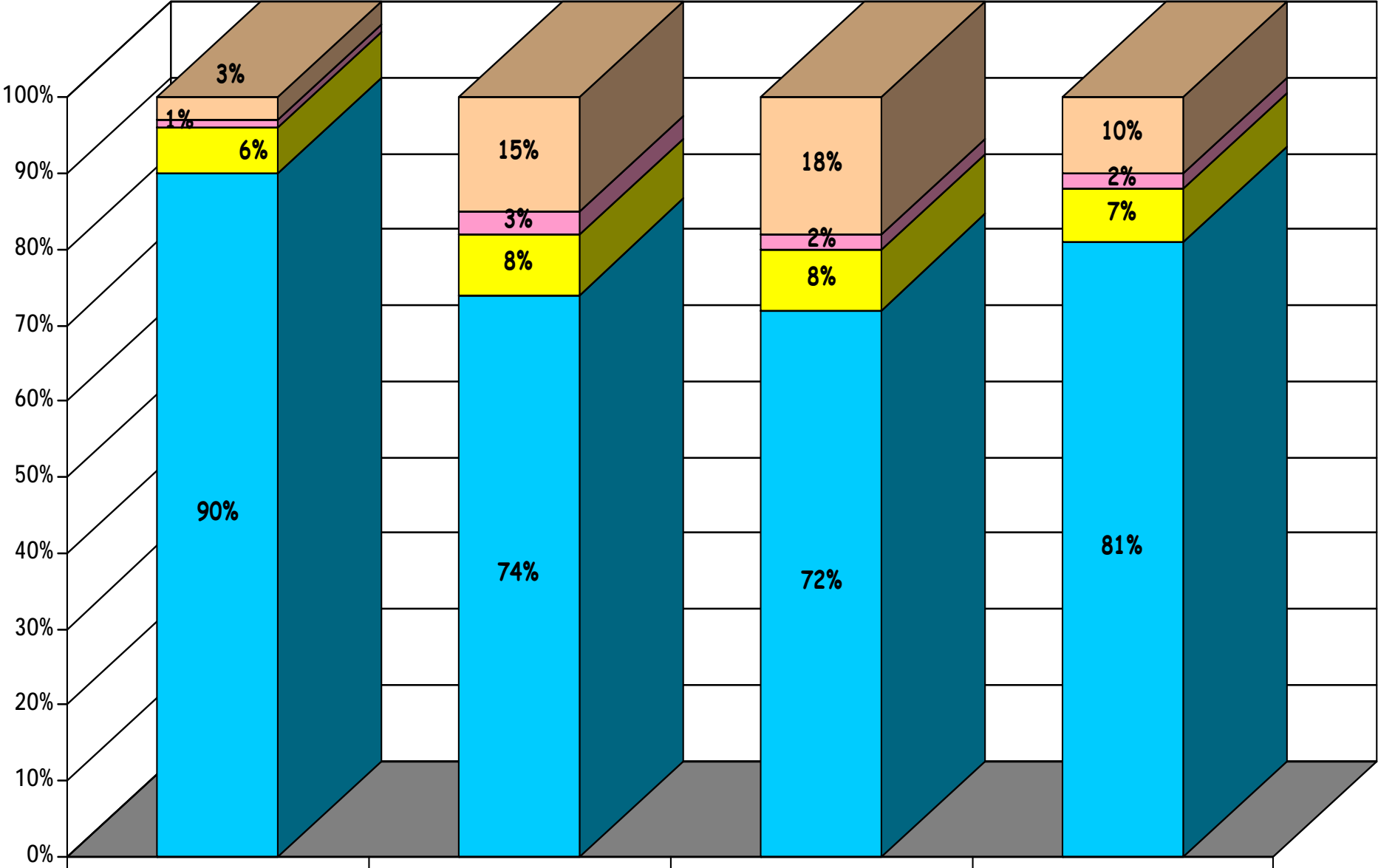
NRC Notifications to EPA Region 6 -- % Releases Reported as Quantity Unknown, by Material Type (1982 – 2008)



NRC Notifications to EPA Region 6 -- Caller Status (1982 - 2008)

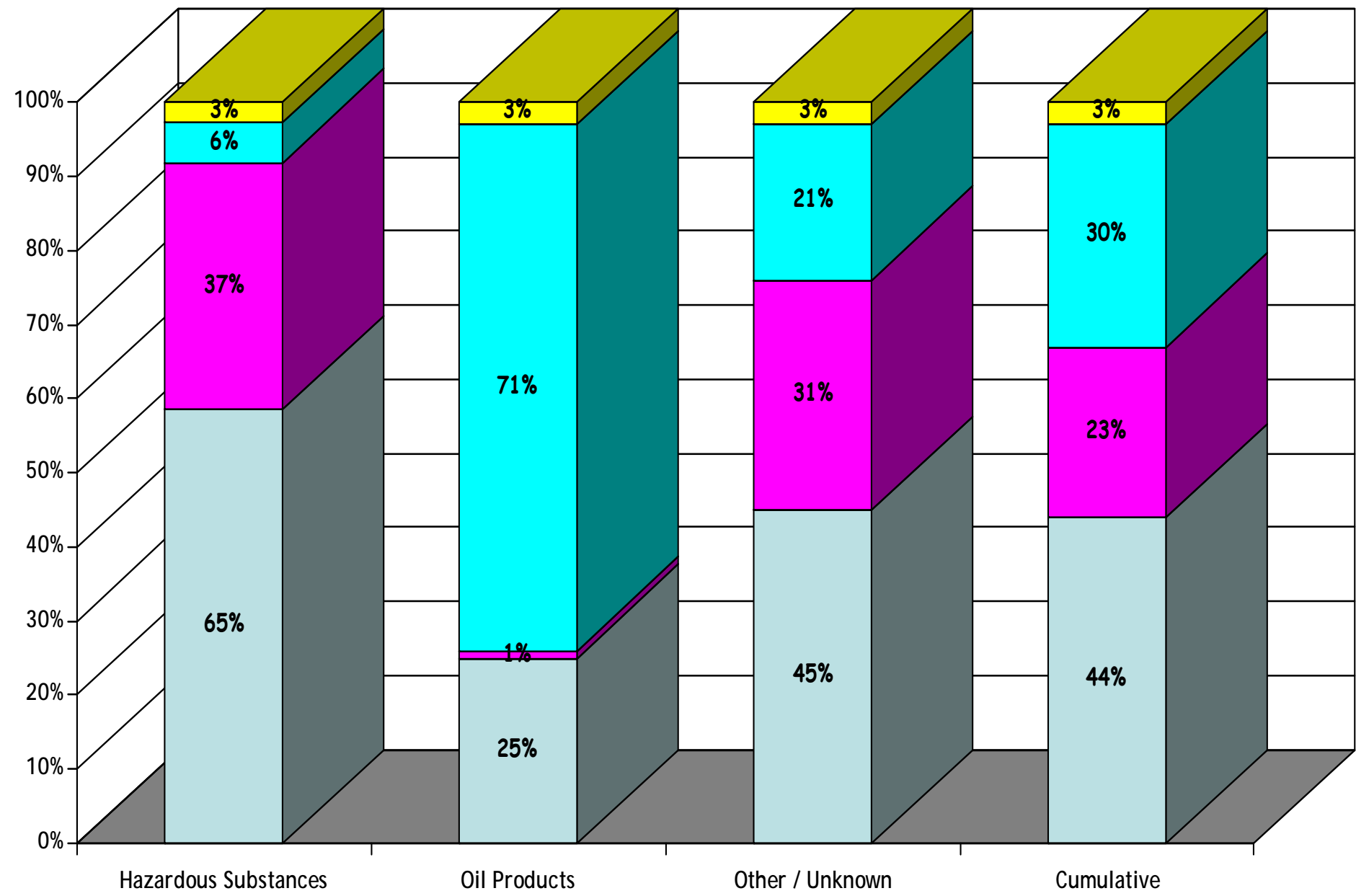


NRC Notifications to EPA Region 6 -- Discharger Status (1982 - 2008)

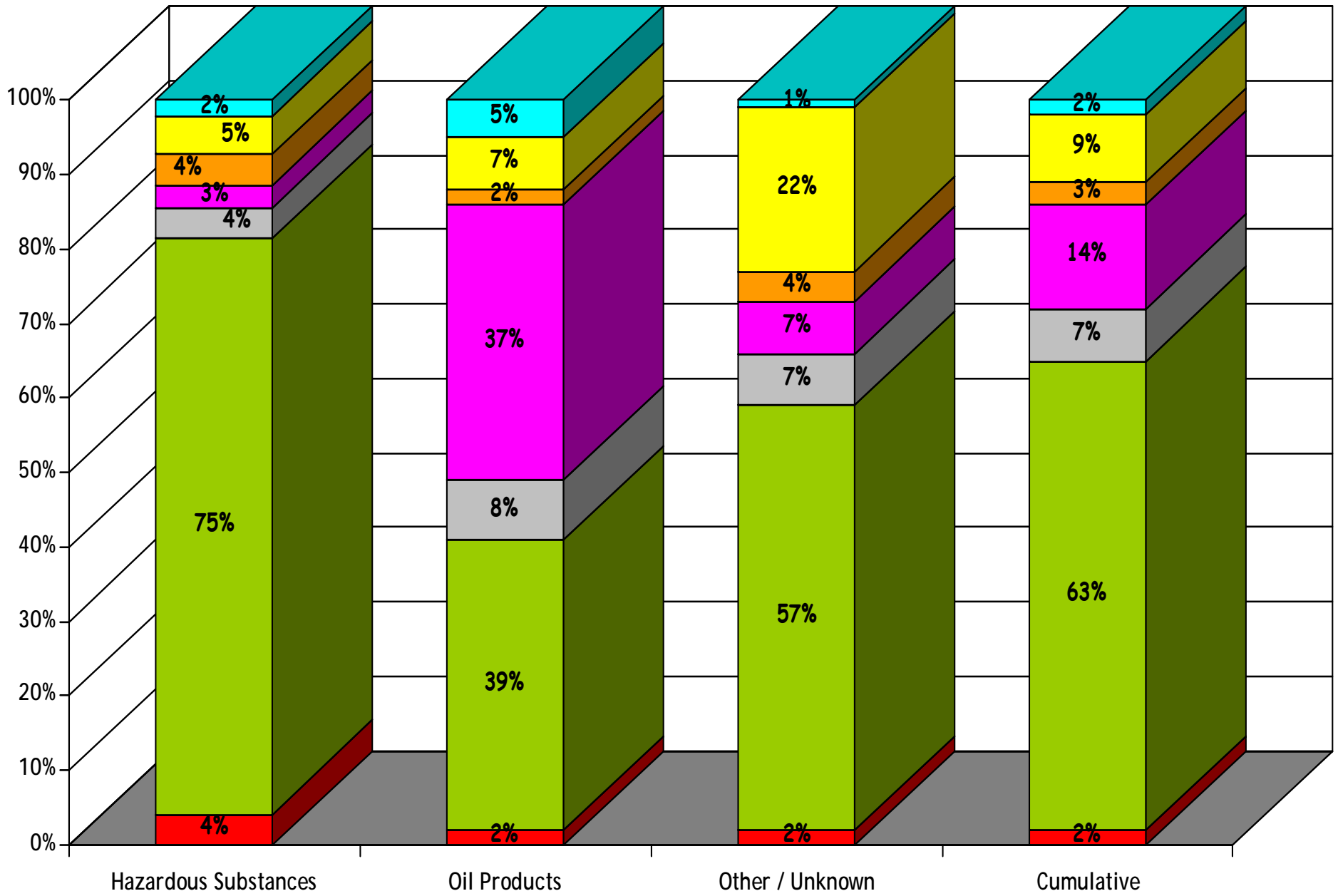


■ Discharger
 ■ Citizen
 ■ Government
 ■ Other / Unknown

NRC Notifications to EPA Region 6 -- Medium Affected (1982 - 2008)



NRC Notifications to EPA Region 6 -- Source of Release (1982 - 2008)



■ Air Transportation

■ Fixed Facility

■ Highway

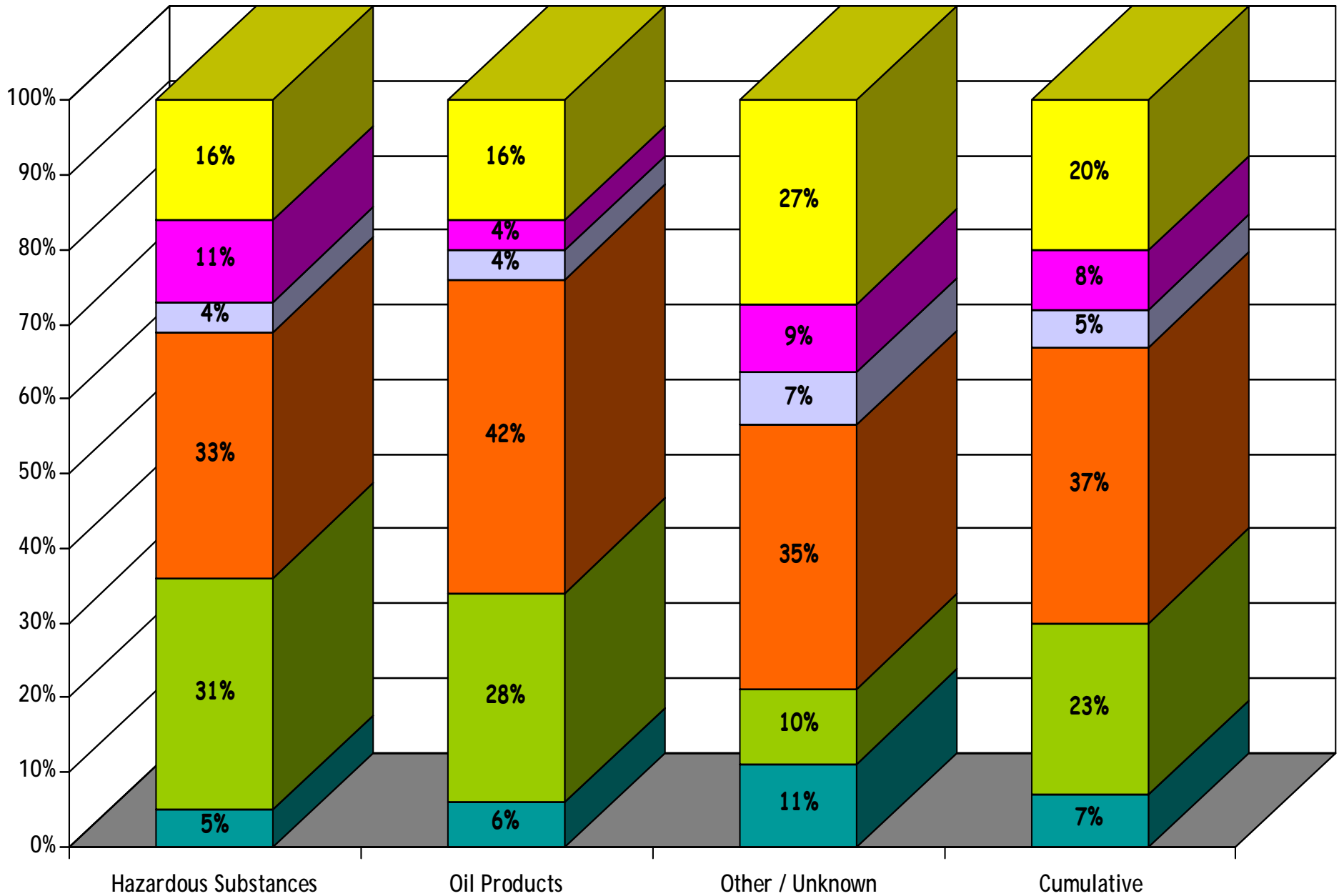
■ Pipeline

■ Railway

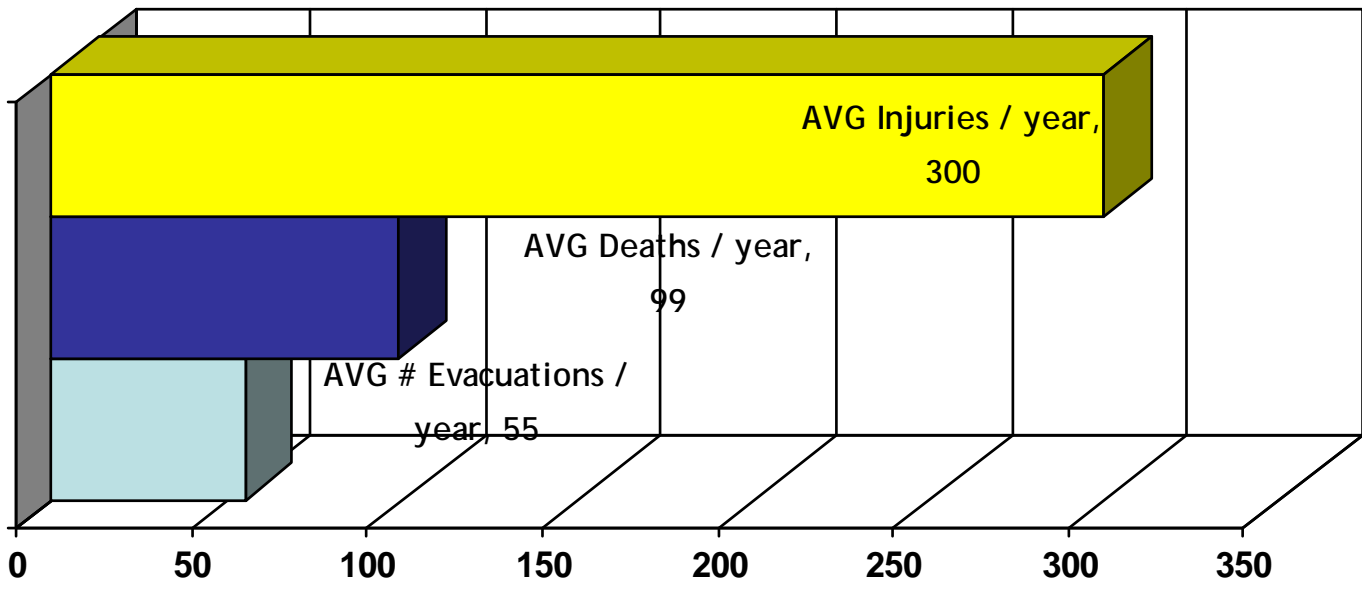
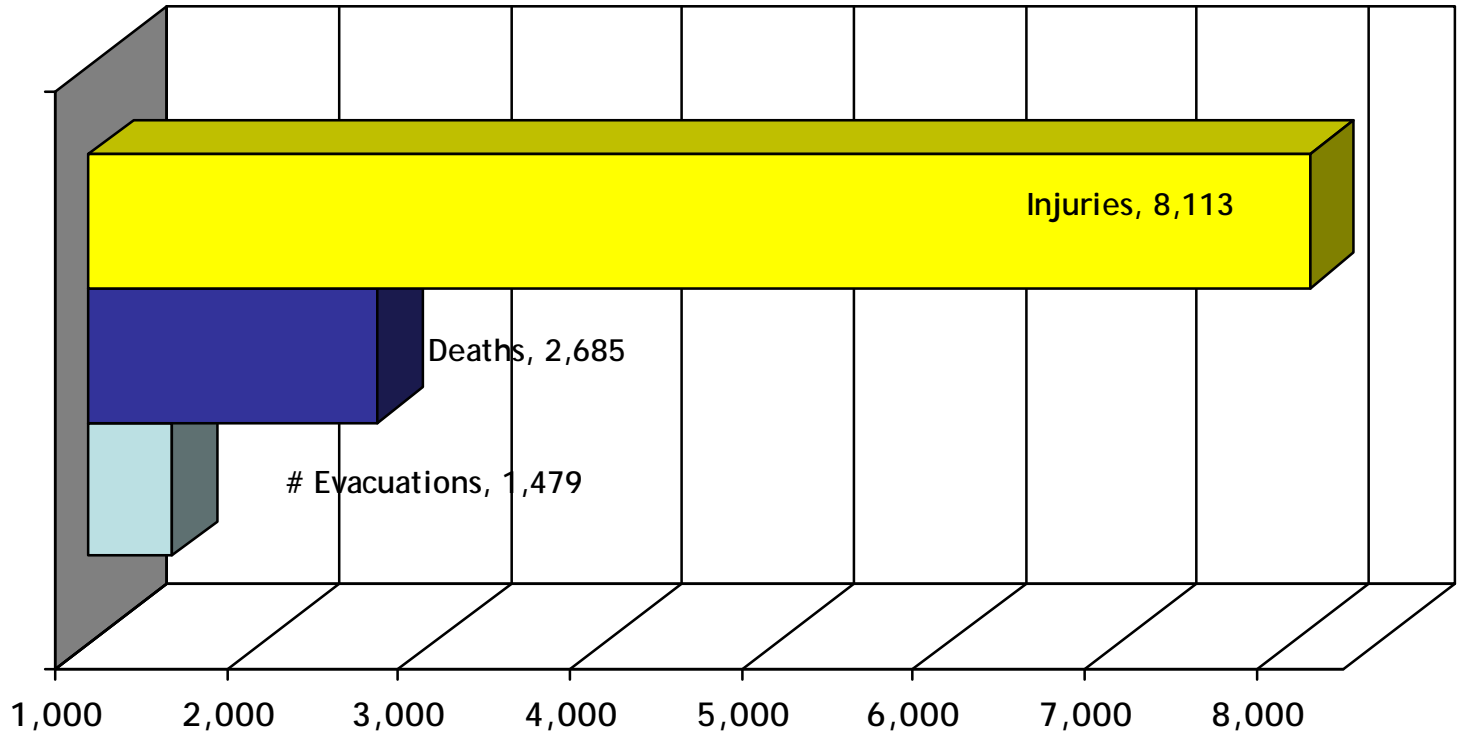
■ Unknown

■ Offshore

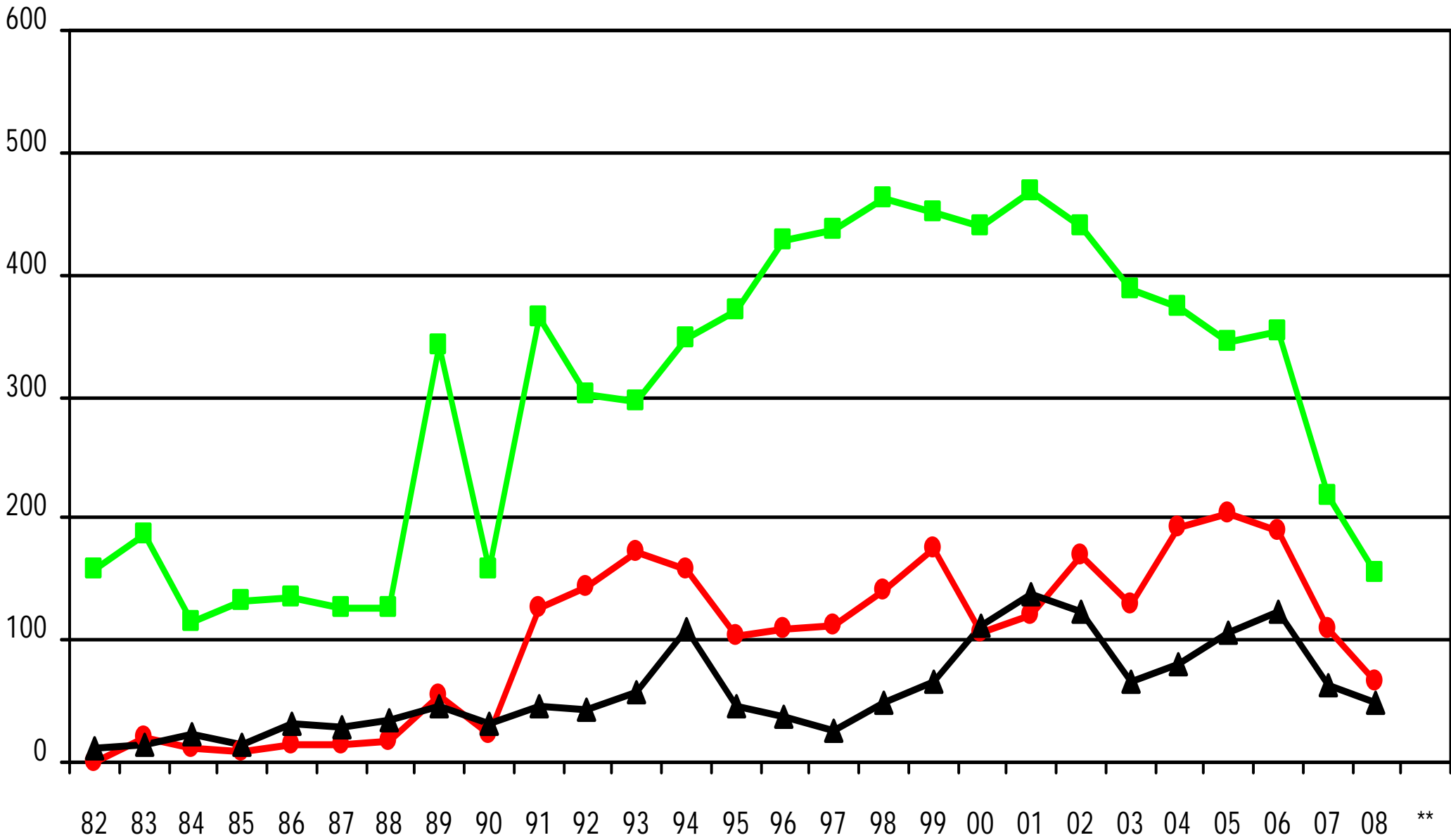
NRC Notifications to EPA Region 6 -- Cause of Release (1982 - 2008)



NRC Notifications to EPA Region 6 -- Significant Results Attributed to Release by Year (1982 - 2008)



NRC Notifications to EPA Region 6 -- Significant Results Attributed to Release by Year (1982 - 2008)

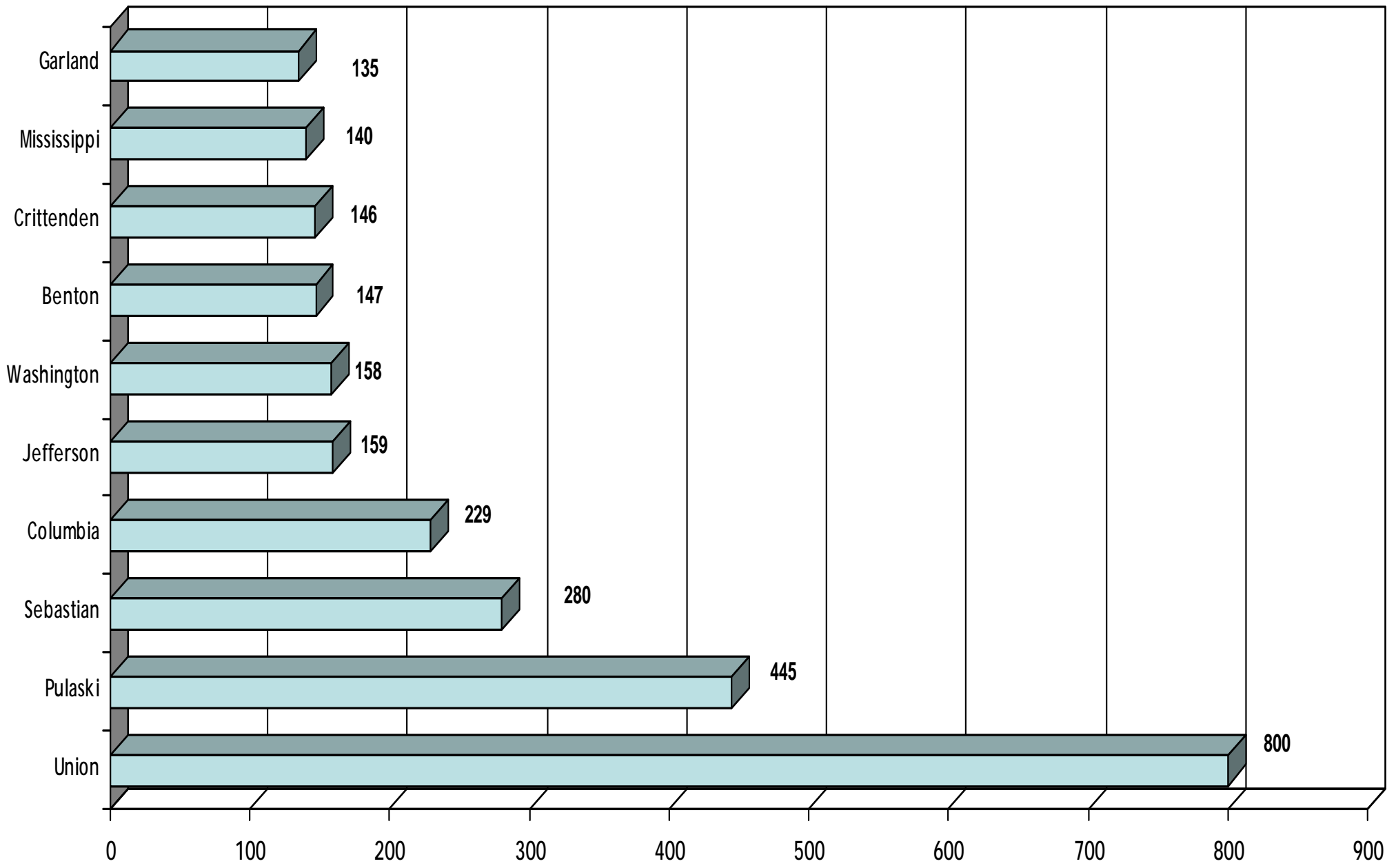


Since 1982, approximately 3-4 % of all release reports have led to a significant event (death, injury, community evacuation, shelter-in-place)

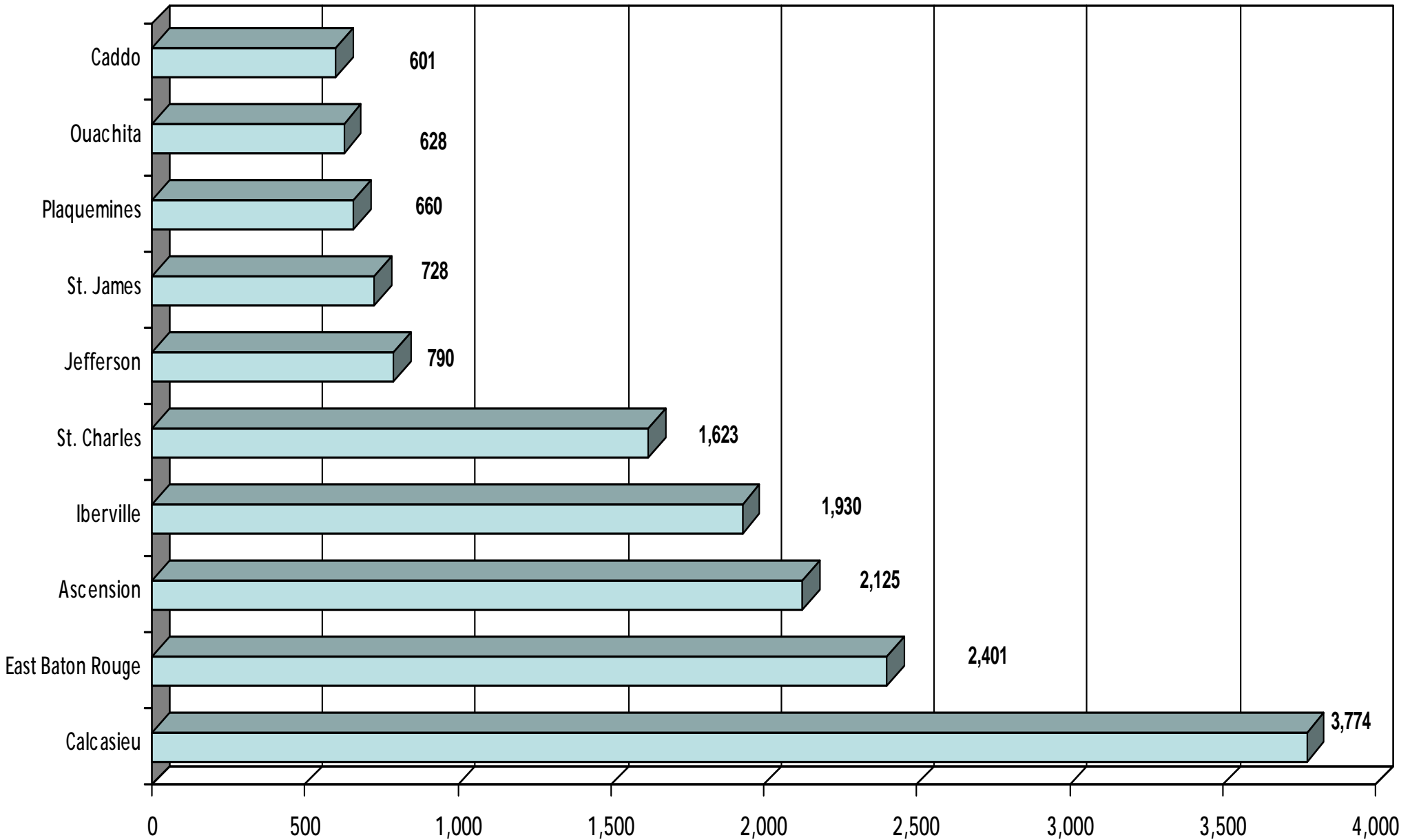
Deaths, injuries, and evacuations may not be directly due to exposure, but as a consequence of the accident resulting in the release

Since 1982, statistically there is a shelter-in-place or evacuation of a community (whole or part) due to a hazardous materials / oil incident somewhere in Region 6, on a weekly basis

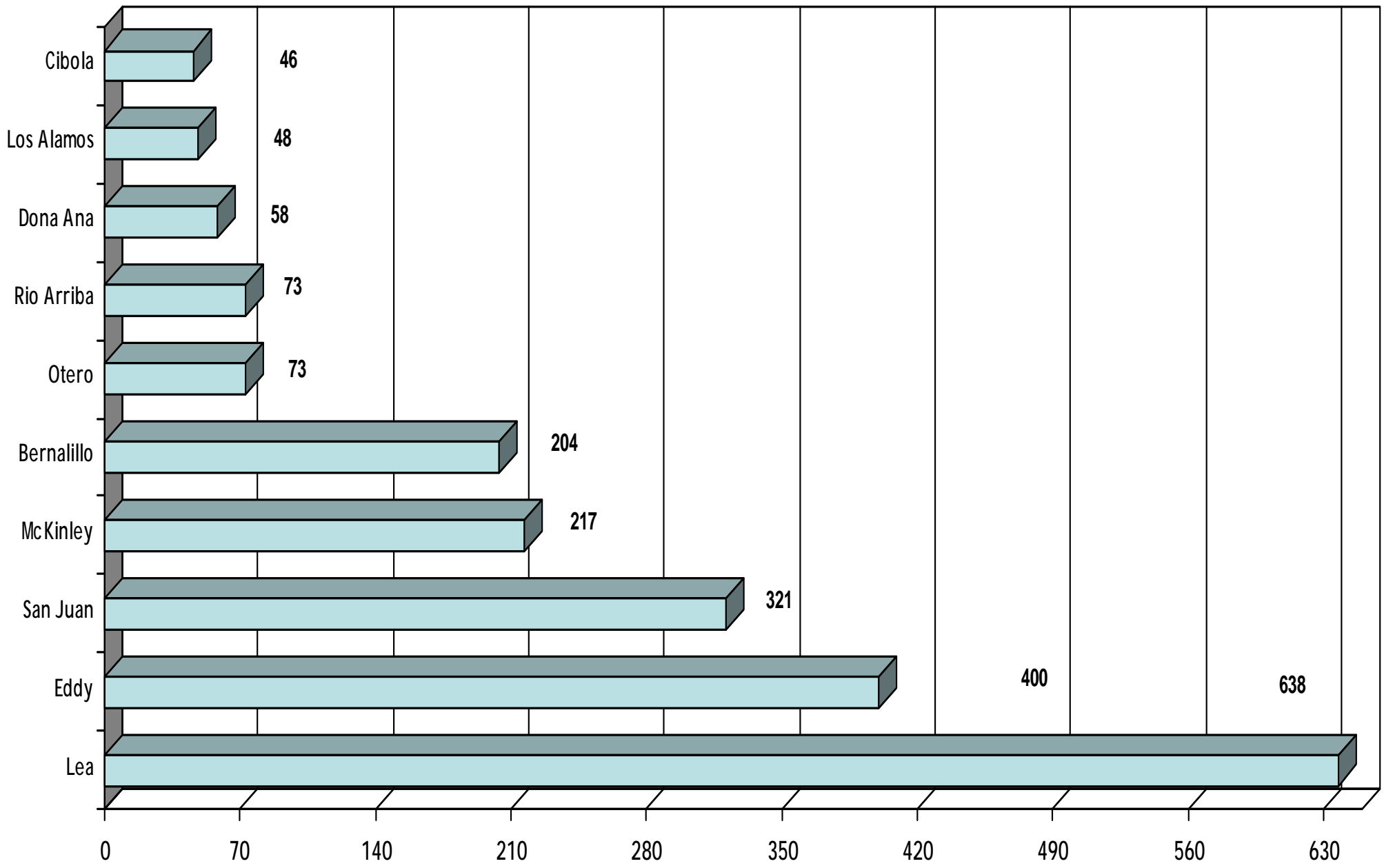
NRC Notifications to EPA Region 6 -- Top 10 Counties : Arkansas (1982 – 2008)



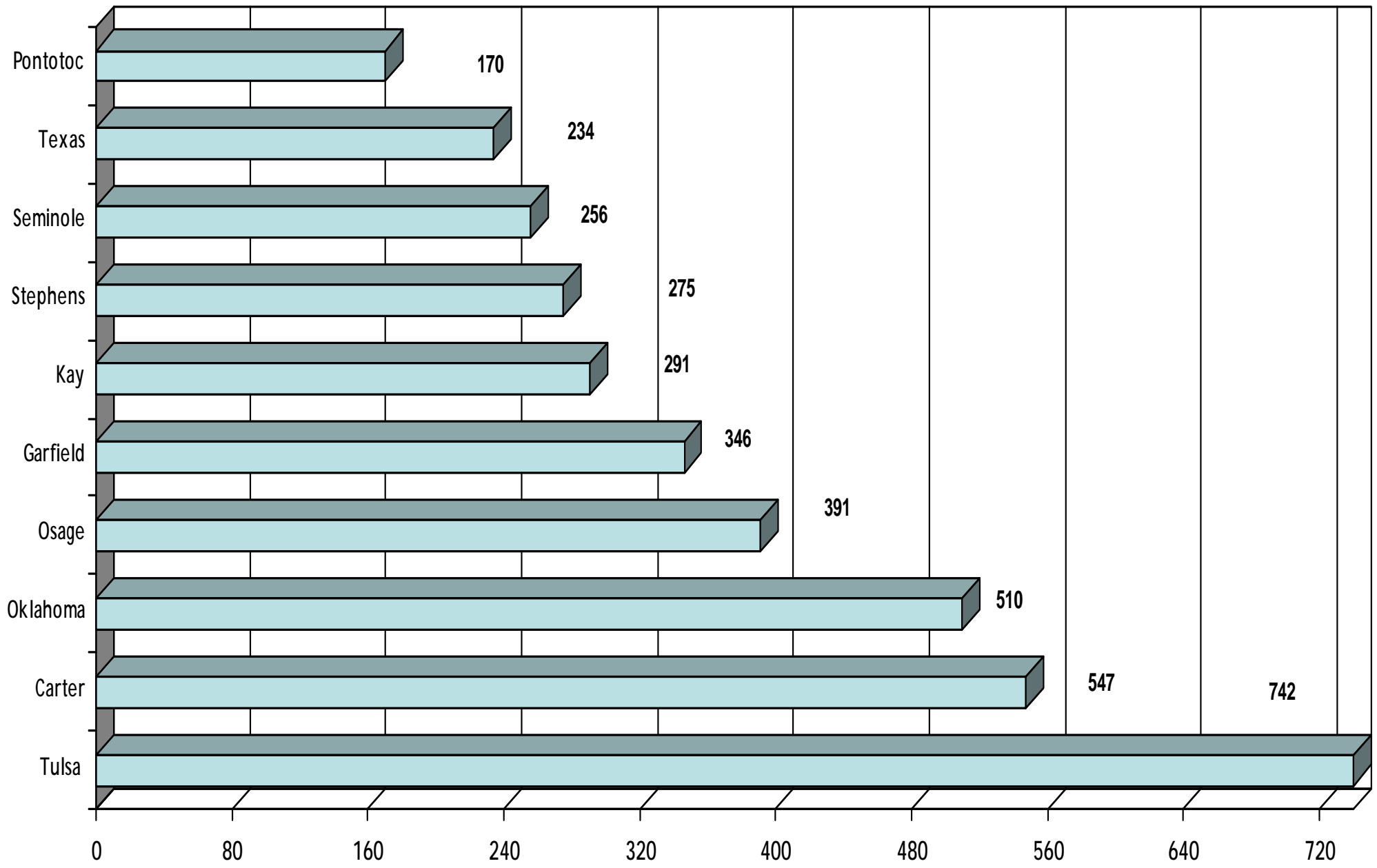
NRC Notifications to EPA Region 6 -- Top 10 Counties : Louisiana (1982 - 2008)



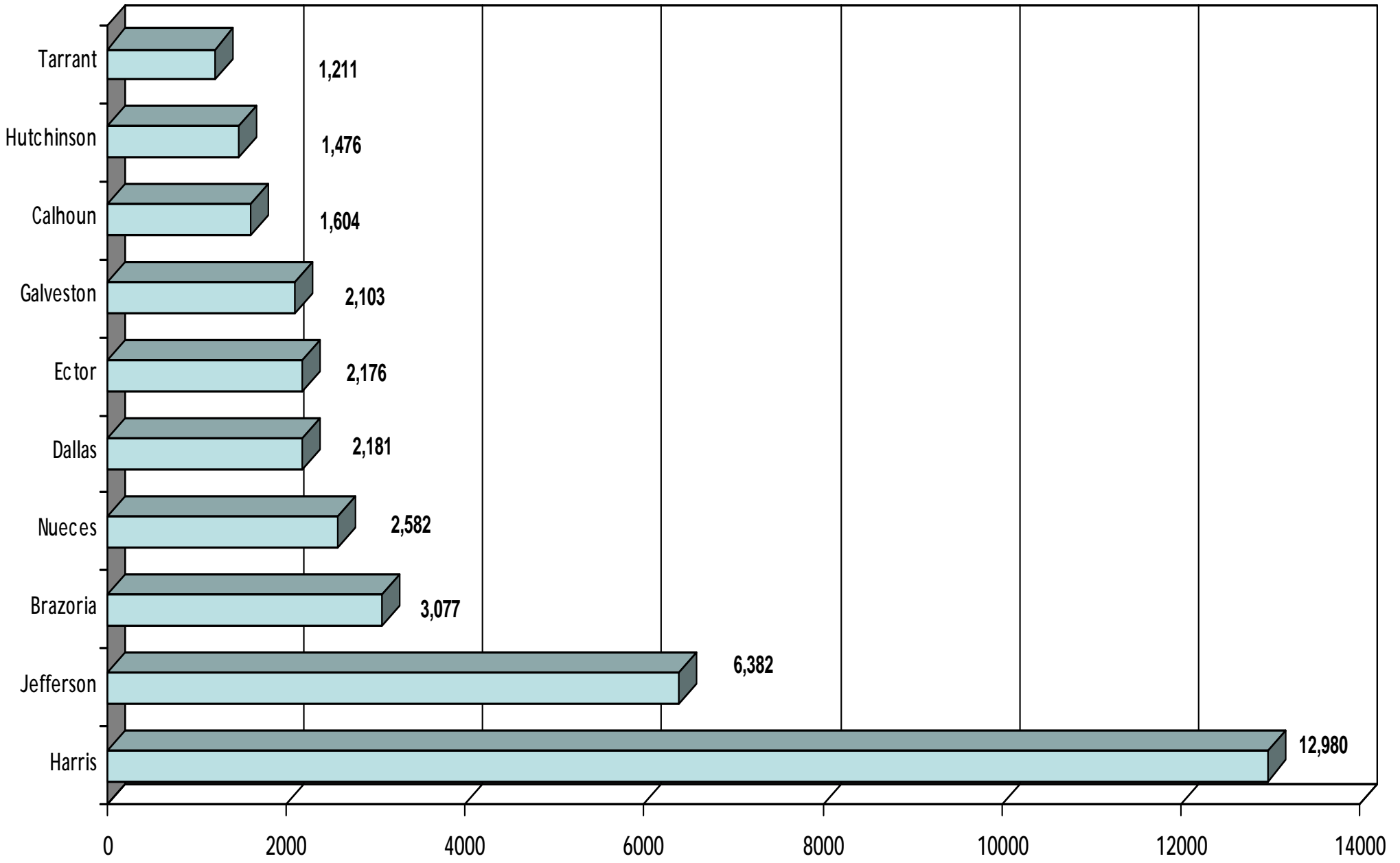
NRC Notifications to EPA Region 6 -- Top 10 Counties : New Mexico (1982 – 2008)



NRC Notifications to EPA Region 6 -- Top 10 Counties : Oklahoma (1982 - 2008)



NRC Notifications to EPA Region 6 -- Top 10 Counties : Texas (1982 - 2008)

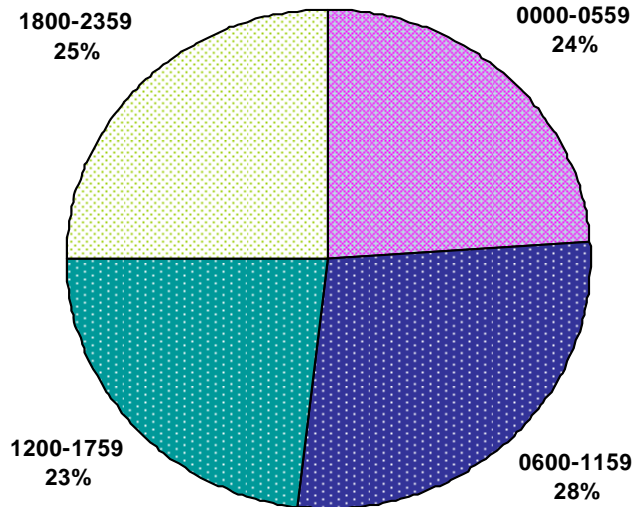
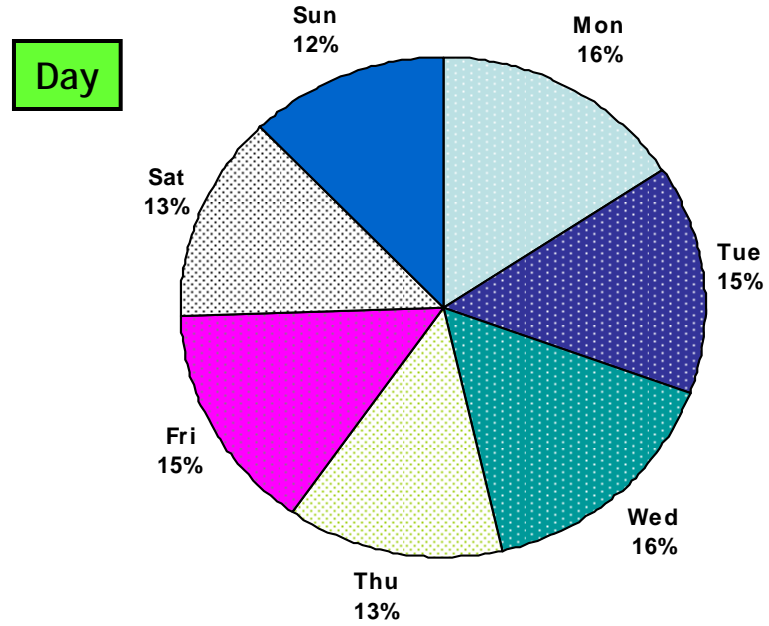
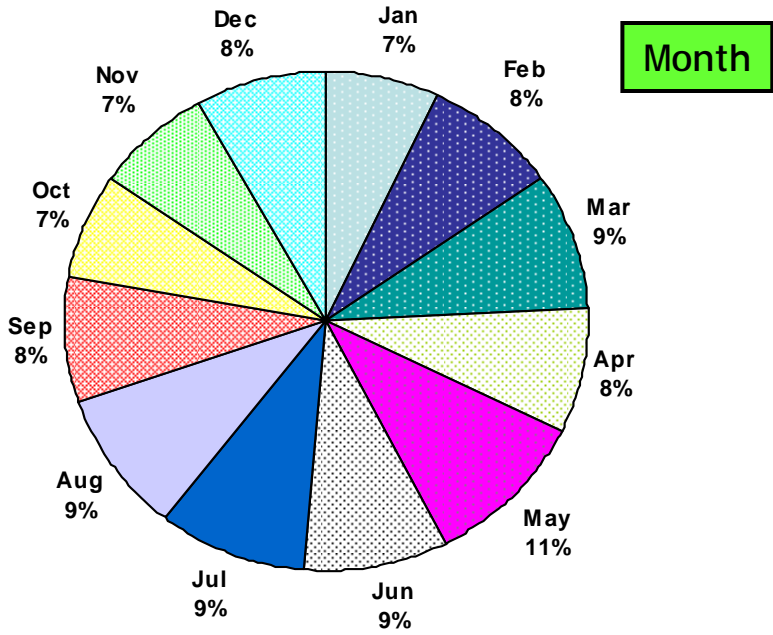


Factoid

Since 1990, more release reports to EPA / USCG through the National Response Center have originated from Harris County (Greater Houston), Texas, than 33 States

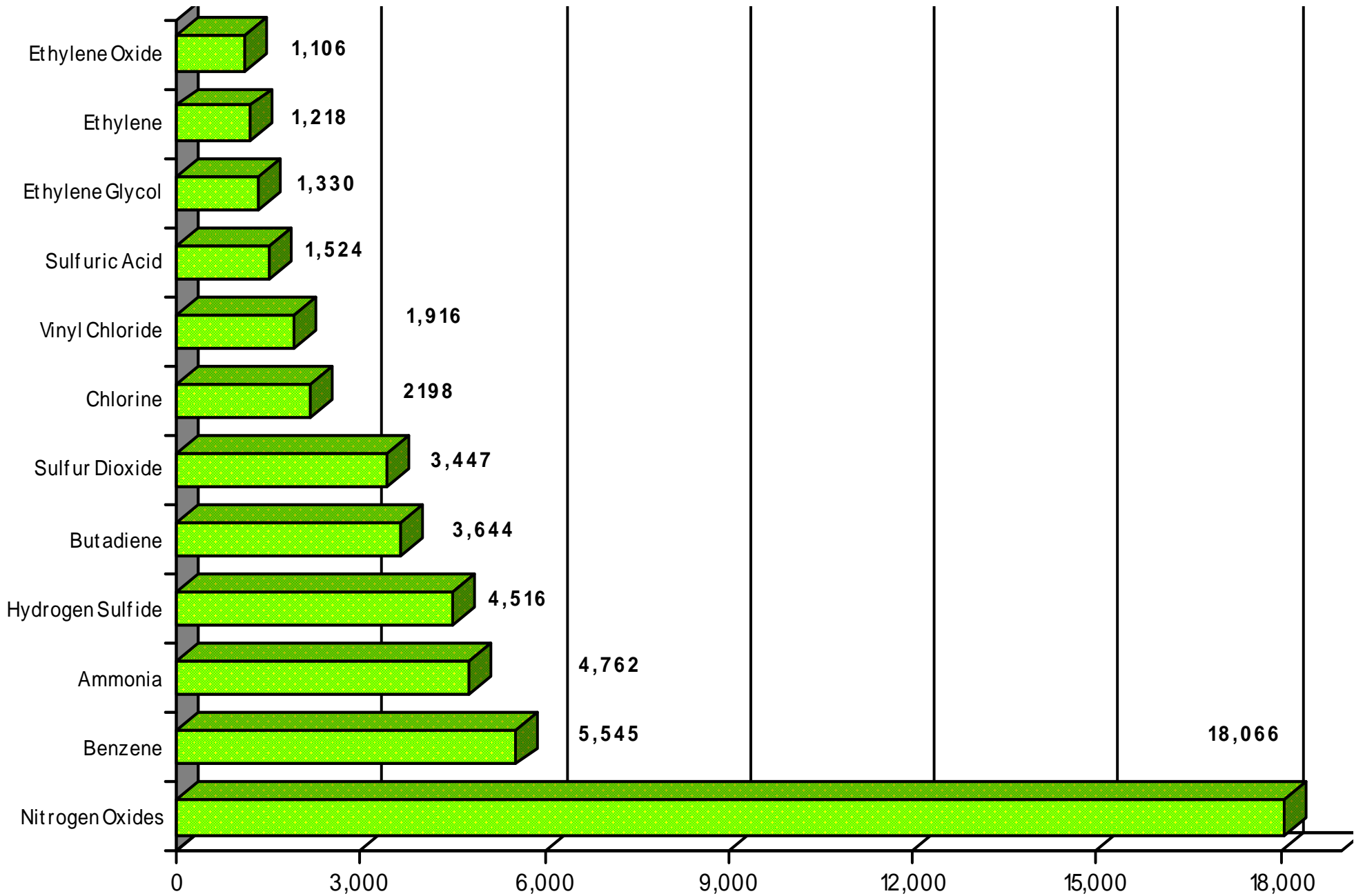


NRC Notifications to EPA Region 6 -- Releases by Month, Day, Time of Day (1982 - 2008)



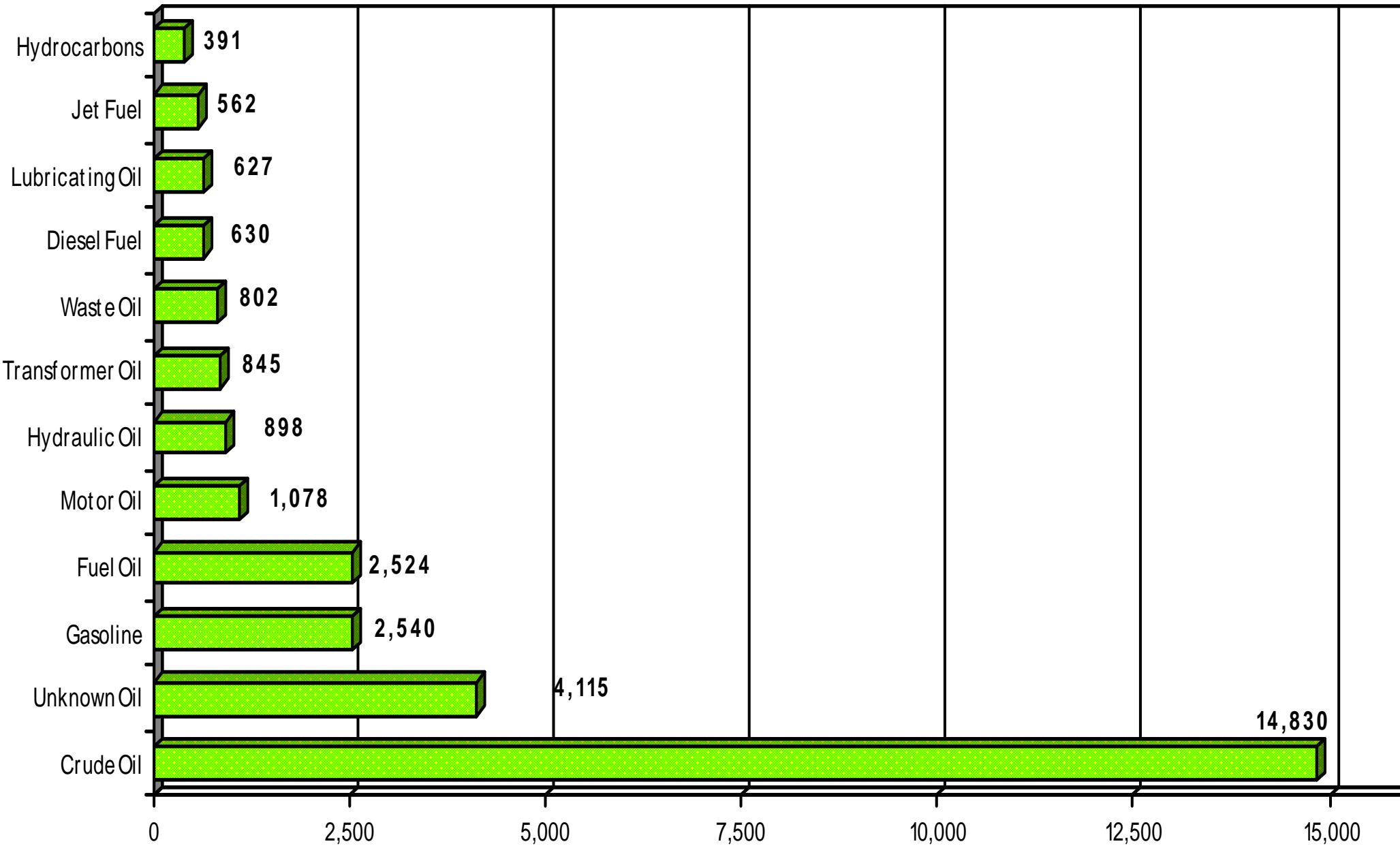
Releases are distributed fairly evenly over months, days of the week, and time of day

NRC Notifications to EPA Region 6 -- Top 12 Hazardous Materials Released (1982 - 2008)



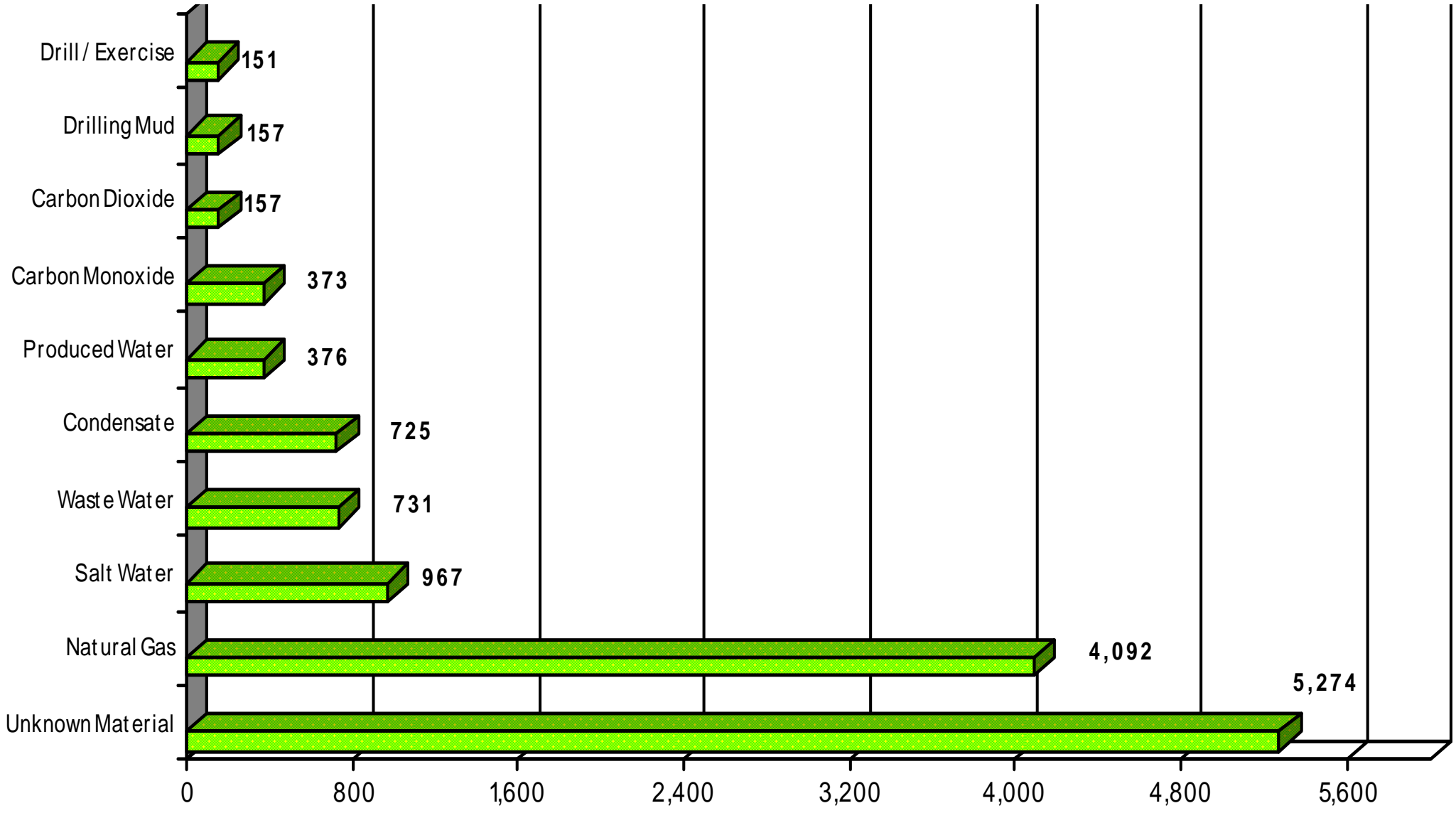
The 12 materials listed above account for 87 % of all hazardous material releases within Region 6 since 1982

NRC Notifications to EPA Region 6 -- Top 12 Oil Products Released (1982 - 2008)



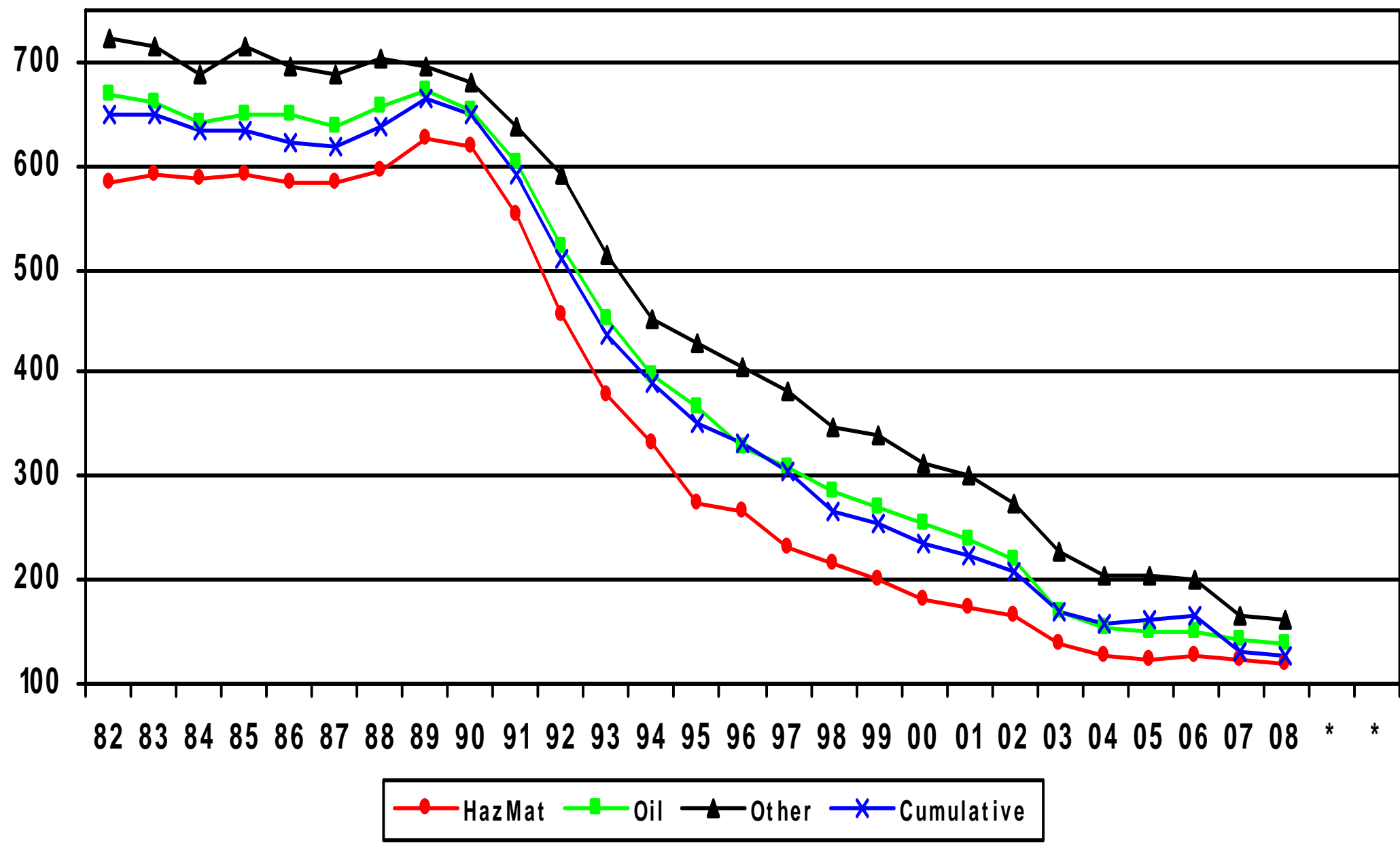
The 12 oil / oil products listed above account for 92 % of all oil / oil product releases within Region 6 since 1982

NRC Notifications to EPA Region 6 -- Top 10 Other Substances Released (1982 - 2008)



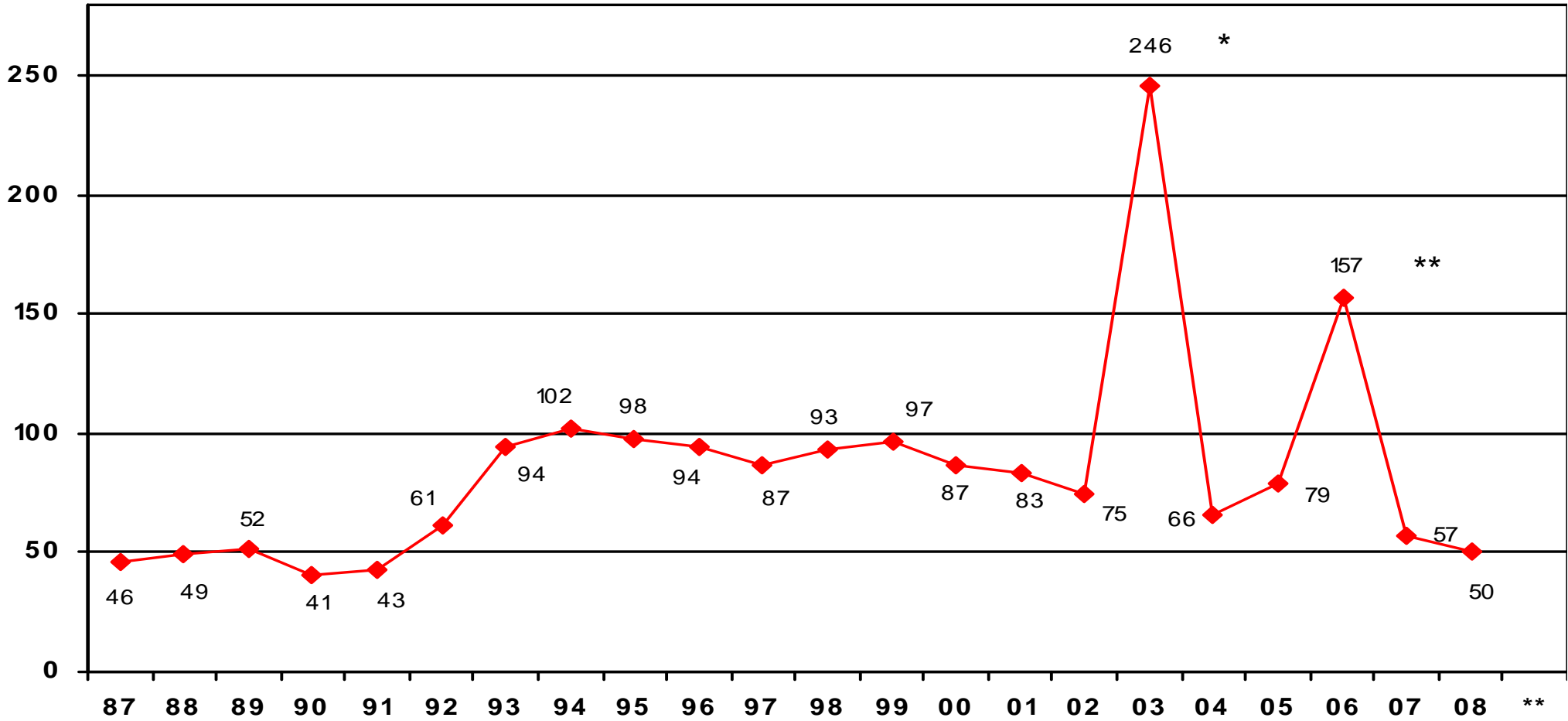
The 10 materials listed above account for 67 % of all other material releases within Region 6 since 1982

NRC Notifications to EPA Region 6 -- Time from Release to Report to NRC by Year (1982 - 2008)



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

NRC Notifications to EPA Region 6 -- EPA OSC / START Responses (1987 – 2008)



* Additionally, represents emergency responses associated with the Columbia Shuttle recovery effort

** Additionally, represents emergency responses associated with Hurricanes Katrina / Rita efforts

Since 1990, the average number of responses by an OSC / START is: 71 per year (approximately 1-1/2 per week throughout the year)

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Arkansas (1982 - 2008)

COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL
ARKANSAS	23		DALLAS	11		LEE	8		POPE	82
ASHLEY	50		DESHA	30		LINCOLN	12		PRAIRIE	15
BAXTER	32		DREW	13		LITTLE RIVER	76		PULASKI	445
BENTON	147		FAULKNER	94		LOGAN	26		RANDOLPH	13
BOONE	25		FRANKLIN	44		LONOKE	34		SALINE	90
BRADLEY	21		FULTON	19		MADISON	20		SCOTT	24
CALHOUN	4		GARLAND	135		MARION	21		SEARCY	14
CARROLL	72		GRANT	13		MILLER	93		SEBASTIAN	280
CHICOT	13		GREENE	44		MISSISSIPPI	140		SEVIER	1
CLARK	41		HEMPSTEAD	43		MONROE	18		SHARP	18
CLAY	24		HOT SPRING	39		MONTGOMERY	14		ST. FRANCIS	34
CLEBURNE	29		HOWARD	17		NEVADA	26		STONE	17
CLEVELAND	10		INDEPENDENCE	65		NEWTON	7		UNION	800
COLUMBIA	229		IZARD	12		OUACHITA	130		VAN BUREN	27
CONWAY	31		JACKSON	30		PERRY	6		WASHINGTON	158
CRAIGHEAD	97		JEFFERSON	159		PHILLIPS	60		WHITE	67
CRAWFORD	82		JOHNSON	26		PIKE	7		WOODRUFF	13
CRITTENDEN	146		LAFAYETTE	49		POINSETT	29		YELL	39
CROSS	50		LAWRENCE	33		POLK	39			

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Louisiana (1982 – 2008)

COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL
ACADIA	230		EAST BATON ROUGE	2401		MADISON	19		ST. LANDRY	266
ALLEN	45		EAST CARROLL	10		MOREHOUSE	53		ST. MARTIN	391
ASCENSION	2125		EAST FELICIANA	19		NATCHITOCHE	58		ST. MARY	315
ASSUMPTION	187		EVANGELINE	54		ORLEANS	492		ST. TAMMANY	239
AVOUELLES	57		FRANKLIN	21		OUACHITA	628		TANGIPAHOA	124
BEAUREGARD	116		GRANT	67		PLAQUEMINES	660		TENSAS	15
BIENVILLE	42		IBERIA	285		POINTE COUPEE	101		TERREBONNE	243
BOSSIER	193		IBERVILLE	1930		RAPIDES	138		UNION	51
CADDO	601		JACKSON	18		RED RIVER	17		VERMILION	312
CALCASIEU	3774		JEFFERSON	790		RICHLAND	19		VERNON	76
CALDWELL	17		JEFFERSON DAVIS	127		SABINE	19		WASHINGTON	89
CAMERON	173		LA SALLE	175		ST. BERNARD	494		WEBSTER	113
CATAHOULA	60		LAFAYETTE	272		ST. CHARLES	1623		WEST BATON ROUGE	394
CLAIBORNE	109		LAFOURCHE	396		ST. HELENA	21		WEST CARROLL	7
CONCORDIA	57		LINCOLN	47		ST. JAMES	728		WEST FELICIANA	41
DESOTO	13		LIVINGSTON	90		ST. JOHN THE BAPTIST	329		WINN	30

NRC Notifications to EPA Region 6 -- Total by County / Parish :: New Mexico (1982 – 2008)

COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL
BERNALILLO	204		GRANT	28		MCKINLEY	217		SANDOVAL	26
CATRON	2		GUADALUPE	14		MORA	5		SANTA FE	35
CHAVES	27		HARDING	2		OTERO	73		SIERRA	14
CIBOLA	46		HIDALGO	33		QUAY	19		SOCORRO	13
COLFAX	11		LEA	638		RIO ARRIBA	73		TAOS	8
CURRY	40		LINCOLN	14		ROOSEVELT	22		TORRANCE	10
DE BACA	8		LOS ALAMOS	48		SAN JUAN	321		UNION	7
DONA ANA	58		LUNA	16		SAN MIGUEL	16		VALENCIA	41
EDDY	400									

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Oklahoma (1982 – 2008)

COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL		COUNTY	TOTAL
ADAIR	7		CUSTER	40		LEFLORE	11		PAWNEE	68
ALFALFA	13		DELAWARE	23		LINCOLN	116		PAYNE	150
ATOKA	21		DEWEY	28		LOGAN	57		PITTSBURG	89
BEAVER	70		ELLIS	16		LOVE	34		PONTOTOC	170
BECKHAM	70		GARFIELD	346		MAJOR	130		POTTAWATOMIE	162
BLAINE	14		GARVIN	169		MARSHALL	32		PUSHMATAHA	11
BRYAN	42		GRADY	91		MAYES	62		ROGER MILLS	20
CADDO	85		GRANT	152		MCCLAIN	74		ROGERS	193
CANADIAN	92		GREER	5		MCCURTAIN	69		SEMINOLE	256
CARTER	547		HARMON	2		MCINTOSH	26		SEQUOYAH	61
CHEROKEE	18		HARPER	4		MURRAY	20		STEPHENS	275
CHOCTAW	14		HASKELL	16		MUSKOGEE	110		TEXAS	234
CIMARRON	28		HUGHES	50		NOBLE	58		TILLMAN	9
CLEVELAND	100		JACKSON	18		NOWATA	39		TULSA	742
COAL	16		JEFFERSON	15		OKFUSKEE	39		WAGONER	50
COMANCHE	73		JOHNSTON	12		OKLAHOMA	510		WASHINGTON	70
COTTON	16		KAY	291		OKMULGEE	61		WASHITA	21
CRAIG	49		KINGFISHER	77		OSAGE	391		WOODS	25
			LATIMER	35		OTTAWA	51		WOODWARD	100

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Texas (1982 – 2008)

COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL
ANDERSON	101	BRISCOE	0	COLORADO	39	EASTLAND	47
ANDREWS	325	BROOKS	23	COMAL	82	ECTOR	2176
ANGELINA	148	BROWN	31	COMANCHE	12	EDWARDS	9
ARANSAS	41	BURLESON	84	CONCHO	5	EL PASO	662
ARCHER	58	BURNET	28	COOKE	123	ELLIS	260
ARMSTRONG	4	CALDWELL	49	CORYELL	24	ERATH	32
ATASCOSA	34	CALHOUN	1604	COTTLE	8	FALLS	17
AUSTIN	53	CALLAHAN	21	CRANE	518	FANNIN	37
BAILEY	1	CAMERON	342	CROCKETT	94	FAYETTE	108
BANDERA	9	CAMP	27	CROSBY	6	FISHER	15
BASTROP	43	CARSON	42	CULBERSON	21	FLOYD	5
BAYLOR	8	CASS	90	DALLAM	33	FOARD	6
BEE	26	CASTRO	13	DALLAS	2181	FORT BEND	211
BELL	163	CHAMBERS	695	DAWSON	334	FRANKLIN	61
BEXAR	684	CHEROKEE	53	DE WITT	15	FREESTONE	101
BLANCO	10	CHILDRESS	17	DEAF SMITH	12	FRIO	25
BORDEN	31	CLAY	30	DELTA	10	GAINES	1010
BOSQUE	25	COCHRAN	18	DENTON	251	GALVESTON	2103
BOWIE	150	COKE	18	DICKENS	2	GARZA	32
BRAZORIA	3077	COLEMAN	20	DIMMIT	27	GILLESPIE	17
BRAZOS	40	COLLIN	240	DONLEY	8	GLASSCOCK	13
BREWSTER	10	COLLINGSWORTH	4	DUVAL	54	GOLIAD	19

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Texas (1982 – 2008)

COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL
GONZALES	27	HOCKLEY	462	KENEDY	28	LUBBOCK	134
GRAY	141	HOOD	27	KENT	405	LYNN	3
GRAYSON	223	HOPKINS	49	KERR	10	MADISON	23
GREGG	685	HOUSTON	67	KIMBLE	8	MARION	23
GRIMES	45	HOWARD	382	KING	60	MARTIN	26
GUADALUPE	109	HUDSPETH	19	KINNEY	6	MASON	0
HALE	80	HUNT	124	KLEBERG	89	MATAGORDA	219
HALL	3	HUTCHINSON	1476	KNOX	18	MAVERICK	35
HAMILTON	4	IRION	10	LA SALLE	19	MCCULLOCH	9
HANSFORD	18	JACK	61	LAMAR	67	MCLENNAN	139
HARDEMAN	22	JACKSON	102	LAMB	11	MCMULLEN	83
HARDIN	177	JASPER	80	LAMPASAS	16	MEDINA	38
HARRIS	12980	JEFF DAVIS	39	LAVACA	35	MENARD	7
HARRISON	719	JEFFERSON	6382	LEE	33	MIDLAND	413
HARTLEY	11	JIM HOGG	6	LEON	80	MILAM	53
HASKELL	17	JIM WELLS	20	LIBERTY	215	MILLS	4
HAYS	40	JOHNSON	175	LIMESTONE	37	MITCHELL	38
HEMPHILL	41	JONES	41	LIPSCOMB	13	MONTAGUE	66
HENDERSON	118	KARNES	30	LIVE OAK	617	MONTGOMERY	401
HIDALGO	217	KAUFMAN	97	LLANO	18	MOORE	434
HILL	57	KENDALL	12	LOVING	8	MORRIS	35

NRC Notifications to EPA Region 6 -- Total by County / Parish :: Texas (1982 – 2008)

COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL	COUNTY	TOTAL
MOTLEY	1	REAL	2	STARR	21	VAN ZANDT	76
NACOGDOCHES	49	RED RIVER	16	STEPHENS	61	VICTORIA	346
NAVARRO	97	REEVES	53	STERLING	17	WALKER	32
NEWTON	36	REFUGIO	61	STONEWALL	7	WALLER	53
NOLAN	49	ROBERTS	8	SUTTON	34	WARD	190
NUECES	2582	ROBERTSON	59	SWISHER	24	WASHINGTON	25
OCHILTREE	41	ROCKWALL	35	TARRANT	1211	WEBB	149
OLDHAM	14	RUNNELS	26	TAYLOR	106	WHARTON	78
ORANGE	724	RUSK	351	TERRELL	13	WHEELER	9
PALO PINTO	60	SABINE	17	TERRY	30	WICHITA	174
PANOLA	178	SAN AUGUSTINE	12	THROCKMORTON	12	WILLACY	19
PARKER	130	SAN JACINTO	17	TITUS	98	WILLIAMSON	113
PARMER	30	SAN PATRICIO	320	TOM GREEN	58	WILSON	18
PECOS	385	SAN SABA	6	TRAVIS	317	WINKLER	258
POLK	56	SCHLEICHER	31	TRINITY	11	WILBARGER	34
POTTER	147	SCURRY	126	TYLER	31	WISE	163
PRESIDIO	6	SHACKELFORD	22	UPSHUR	51	WOOD	131
RAINS	11	SHELBY	44	UPTON	90	YOAKUM	1119
RANDALL	25	SHERMAN	15	UVALDE	12	YOUNG	61
REAGAN	40	SMITH	285	VAL VERDE	33	ZAPATA	19
		SOMERVELL	20			ZAVALA	17