



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY  
WASHINGTON, D.C. 20460

OFFICE OF  
SOLID WASTE AND EMERGENCY  
RESPONSE

DEC 23 2002

**MEMORANDUM**

SUBJECT: FY 2002 End-of-Year Activity Report

FROM: Cliff Rothenstein, Director  
Office of Underground Storage Tanks

A handwritten signature in black ink, appearing to read "Cliff Rothenstein", written over the printed name.

TO: UST Regional Division Directors, Regions 1 - 10

The FY 2002 End-of-Year activities report for underground storage tanks shows both improvements made and challenges needing to be addressed for both compliance and cleanup activities. As a result of improved leak detection and prevention measures, there has been a 54 percent drop in the number of new releases reported in the last three years. However, one of the biggest challenges we face is that the number of cleanups completed dropped 28 percent this year. This downward trend began three year ago, leaving us with a national cleanup backlog of 143,000 releases remaining to be cleaned up.

Two years ago we started collecting information on significant operational compliance for release prevention and release detection for the approximately 698,000 active tanks nationwide. The rate for significant operational compliance for release prevention (spill, overfill, and corrosion requirements) is 81 percent and for release detection requirements is 74 percent nationally. These two measures are likely to fluctuate as we fine tune the definitions. We have been working with an EPA-State work group to improve these two important measures with the goal of having more consistent definitions so that the states are reporting comparable data. We appreciate your support in this endeavor and look forward to more consistent data in FY 2003.

I am attaching the FY 2002 End-of-Year activity report for the UST program for regions, states and Indian Country. Attachment 1 presents the results of the corrective action and leak detection/upgrading compliance measures data through September 2002. Attachment 2 provides a series of charts and graphs illustrating national and regional corrective action trends over time.

We appreciate the continued involvement of the regions in ensuring the data submitted to OUST is of good quality.

Attachments

cc: w/attachments:

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**Attachment 1**

**UST Corrective Action Measures for End of Year FY2002 (as of September 30, 2002)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>ONE</b>							
CT	12,660	18,638	2,289	2,245	1,459	830	105
MA	11,673	21,239	5,817	5,608	4,070	1,747	4,739
ME	3,696	11,721	1,968	1,950	1,891	77	343
NH	3,036	10,473	2,062	2,101	1,222	840	396
RI	1,746	6,977	1,168	1,167	875	293	26
VT	2,951	5,035	1,873	1,873	1,037	836	247
<b>SUBTOTAL</b>	<b>35,762</b>	<b>74,083</b>	<b>15,177</b>	<b>14,944</b>	<b>10,554</b>	<b>4,623</b>	<b>5,856</b>
<b>TWO</b>							
NJ	21,253	49,757	8,948	8,022	5,207	3,741	51
NY	32,749	65,118	18,277	17,729	15,193	3,084	321
PR	4,679	4,954	964	798	273	691	158
VI	124	278	14	14	0	14	16
<b>SUBTOTAL</b>	<b>58,805</b>	<b>120,107</b>	<b>28,203</b>	<b>26,563</b>	<b>20,673</b>	<b>7,530</b>	<b>546</b>
<b>THREE</b>							
DC	726	2,915	720	720	473	247	215
DE	1,655	6,448	2,471	2,113	1,716	755	374
MD	9,253	26,614	11,659	10,012	8,404	3,255	320
PA	28,095	55,438	12,454	12,267	8,488	3,966	27
VA	29,728	46,457	9,552	9,407	8,518	1,034	63
WV	6,501	17,736	2,673	2,237	1,365	1,308	9
<b>SUBTOTAL</b>	<b>75,958</b>	<b>155,608</b>	<b>39,529</b>	<b>36,756</b>	<b>28,964</b>	<b>10,565</b>	<b>1,008</b>
<b>FOUR</b>							
AL	18,385	27,746	10,489	10,401	8,637	1,852	257
FL	32,352	87,705	24,895	13,878	6,206	18,689	204
GA	30,496	39,091	9,806	1,744	5,858	3,948	9
KY	13,954	32,905	12,204	12,196	9,516	2,688	147
MS	9,159	21,062	6,177	5,980	5,786	391	108
NC	31,322	60,869	21,750	20,456	14,927	6,823	469
SC	12,508	30,474	8,265	7,873	4,438	3,827	90
TN	16,831	31,217	11,993	11,337	10,647	1,346	66
<b>SUBTOTAL</b>	<b>165,007</b>	<b>331,069</b>	<b>105,579</b>	<b>83,865</b>	<b>66,015</b>	<b>39,564</b>	<b>1,350</b>

**Attachment 1**

**UST Corrective Action Measures for End of Year FY2002 (as of September 30, 2002)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>FIVE</b>							
IL	23,906	59,721	21,113	19,660	11,929	9,184	1,657
IN	14,588	33,751	7,654	6,576	3,789	3,865	211
MI	23,433	63,421	19,676	19,230	10,796	8,880	68
MN	13,778	28,016	9,035	8,335	7,493	1,542	367
OH	27,605	37,781	22,438	22,014	18,224	4,214	417
WI	17,011	62,934	17,725	16,835	13,185	4,540	253
<b>SUBTOTAL</b>	<b>120,321</b>	<b>285,624</b>	<b>97,641</b>	<b>92,650</b>	<b>65,416</b>	<b>32,225</b>	<b>2,973</b>
<b>SIX</b>							
AR	9,840	19,187	1,144	868	781	363	12
LA	16,898	27,343	2,546	1,805	1,454	1,092	404
NM	4,251	11,974	2,377	1,628	1,392	985	71
OK	11,937	23,462	3,815	3,815	3,142	673	63
TX	60,171	104,503	23,231	22,553	17,105	6,126	468
<b>SUBTOTAL</b>	<b>103,097</b>	<b>186,469</b>	<b>33,113</b>	<b>30,669</b>	<b>23,874</b>	<b>9,239</b>	<b>1,018</b>
<b>SEVEN</b>							
IA	8,053	21,293	5,630	5,445	3,299	2,331	0
KS	8,822	17,645	4,415	4,195	2,357	2,058	112
MO	10,660	27,019	5,775	5,566	4,413	1,362	308
NE	6,997	13,751	5,798	2,963	2,660	3,138	10
<b>SUBTOTAL</b>	<b>34,532</b>	<b>79,708</b>	<b>21,618</b>	<b>18,169</b>	<b>12,729</b>	<b>8,889</b>	<b>430</b>
<b>EIGHT</b>							
CO	8,145	20,177	5,959	5,502	4,651	1,308	36
MT	3,605	12,763	2,982	2,259	1,805	1,177	47
ND	2,270	6,968	812	826	766	46	3
SD	3,173	6,274	2,263	2,181	1,840	423	20
UT	4,160	12,231	3,952	3,713	3,344	608	4
WY	2,074	7,638	1,968	1,174	522	1,446	61
<b>SUBTOTAL</b>	<b>23,427</b>	<b>66,051</b>	<b>17,936</b>	<b>15,655</b>	<b>12,928</b>	<b>5,008</b>	<b>171</b>

**Attachment 1**

**UST Corrective Action Measures for End of Year FY2002 (as of September 30, 2002)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>NINE</b>							
AZ	8,750	19,244	7,953	5,463	5,422	2,531	2
CA	42,707	114,321	38,908	38,908	23,230	15,678	0
HI	1,925	4,804	1,702	1,605	1,310	392	0
NV	3,649	6,498	2,384	2,384	2,083	301	52
CNMI	73	15	7	7	0	7	0
GU	280	391	132	132	108	24	0
AS	17	45	5	5	0	5	1
<b>SUBTOTAL</b>	<b>57,401</b>	<b>145,318</b>	<b>51,091</b>	<b>48,504</b>	<b>32,153</b>	<b>18,938</b>	<b>55</b>
<b>TEN</b>							
AK	1,149	6,087	2,265	2,093	1,145	1,120	95
ID	3,498	9,092	1,279	1,246	1,059	220	12
OR	6,866	25,457	6,616	6,193	4,675	1,941	56
WA	9,458	35,513	6,217	5,808	3,844	2,373	37
<b>SUBTOTAL</b>	<b>20,971</b>	<b>76,149</b>	<b>16,377</b>	<b>15,340</b>	<b>10,723</b>	<b>5,654</b>	<b>200</b>
<b>REGIONAL CORRECTIVE ACTIONS FOR INDIAN COUNTRY</b>							
REGION 1	4	2	0	0	0	0	0
REGION 2	179	21	6	1	0	6	2
REGION 3	N/A	N/A	N/A	N/A	N/A	N/A	N/A
REGION 4	61	49	11	11	2	9	0
REGION 5	391	969	184	181	106	78	0
REGION 6	276	172	32	31	28	4	1
REGION 7	88	90	19	14	7	12	0
REGION 8	577	1,991	461	407	226	235	5
REGION 9	735	1,128	189	139	109	80	0
REGION 10	374	794	141	130	95	46	0
<b>SUBTOTAL</b>	<b>2,685</b>	<b>5,216</b>	<b>1,043</b>	<b>914</b>	<b>573</b>	<b>470</b>	<b>8</b>
	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>National Total</b>	<b>697,966</b>	<b>1,525,402</b>	<b>427,307</b>	<b>384,029</b>	<b>284,602</b>	<b>142,705</b>	<b>13,615</b>

## UST Leak Detection and Upgrading Compliance Measures for End of Year FY2002 (as of 9/30/02)

Region/State	% in Significant Operational Compliance with Release Prevention	% in Significant Operational Compliance with Leak Detection Regulations	Region/State	% in Significant Operational Compliance with Release Prevention	% in Significant Operational Compliance with Leak Detection Regulations
<b>ONE</b>			<b>FIVE</b>		
CT	89%	81%	IL	38%	31%
ME	96%	66%	IN	63%	45%
MA	84%	43%	MI	74%	54%
NH	67%	44%	MN	91%	71%
RI	89%	37%	OH	92%	90%
VT	100%	36%	WI	100%	94%
SUBTOTAL	87%	58%	SUBTOTAL	75%	64%
<b>TWO</b>			<b>SIX</b>		
NJ	59%	71%	AR	61%	68%
NY	77%	76%	LA	data not available	data not available
PR	80%	86%	NM	99%	90%
VI	85%	69%	OK	95%	95%
SUBTOTAL	71%	75%	TX	80%	78%
<b>THREE</b>			SUBTOTAL	81%	80%
DC	76%	76%	<b>SEVEN</b>		
DE	56%	58%	IA	72%	65%
MD	80%	78%	KS	92%	70%
PA	76%	63%	MO	87%	87%
VA	71%	59%	NE	77%	74%
WV	59%	52%	SUBTOTAL	83%	75%
SUBTOTAL	73%	62%	<b>EIGHT</b>		
<b>FOUR</b>			CO	95%	95%
AL	81%	80%	MT	98%	69%
FL	93%	95%	ND	78%	71%
GA	data not available	data not available	SD	data not available	data not available
KY	88%	87%	UT	78%	64%
MS	78%	93%	WY	98%	83%
NC	83%	78%	SUBTOTAL	90%	80%
SC	98%	75%			
TN	85%	82%			
SUBTOTAL	87%	85%			

**UST Leak Detection and Upgrading Compliance Measures for End of Year FY2002 (as of 9/30/02)**

Region/State	% in Significant Operational Compliance with Release Prevention	% in Significant Operational Compliance with Leak Detection Regulations
<b>NINE</b>		
AZ	90%	70%
CA	94%	91%
HI	98%	83%
NV	88%	81%
CNMI	75%	75%
GU	73%	79%
AS	85%	85%
SUBTOTAL	93%	87%
<b>TEN</b>		
AK	56%	54%
ID	69%	64%
OR	54%	38%
WA	76%	57%
SUBTOTAL	67%	52%

Region/State	% in Significant Operational Compliance with Release Prevention	% in Significant Operational Compliance with Leak Detection Regulations
<b>LD Compliance Measures for Indian Country</b>		
REGION 1	data not available	data not available
REGION 2	data not available	data not available
REGION 3	N/A	N/A
REGION 4	data not available	data not available
REGION 5	88%	100%
REGION 6	data not available	data not available
REGION 7	40%	40%
REGION 8	70%	79%
REGION 9	56%	53%
REGION 10	67%	67%
SUBTOTAL	67%	70%
<b>NATIONAL TOTAL</b>	81%	74%

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**These compliance rates indicate the percentage of facilities recently inspected that were found to be in significant operational compliance with the federal UST regulations. There may be some variety in the reporting by the states. For example, some states may have reported based on more stringent state requirements. Also, some states may have targeted non-complying facilities, so the facilities they inspected are not necessarily representative of all the facilities in their state. Please keep these variations in mind when reviewing the data. Nevertheless, these percentages can be used as baselines for future reporting periods.**

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## Attachment #2

### **FY 2002 Corrective Action Trends Analysis**

This attachment contains seven charts that provide an analysis of FY 2002 end-of-year regional and national corrective action performance. The analysis is performed on biannual data reported by the Regions for two of the three LUST measures—confirmed releases, and cleanups completed—as well as the UST national cleanup backlog (confirmed releases minus cleanups completed). The charts have been provided so that the Regions may gain a better understanding of their end-of-year cleanup program performance as it compares with past end-of-year periods, other regions and national performance. The attachment contains:

#### **Charts 1-3: Report on National and Regional Cumulative Program Totals Through FY 2002.**

Chart 1: *National Cumulative UST Corrective Action Activity: Cumulative from FY 1991 thru FY 2002.*

Chart 2: *National UST Cleanups Initiated and Completed as a Percentage of Confirmed Releases.*

Chart 3: *UST Cleanup Activity by EPA Region: Cumulative from FY 1992 thru FY 2002.*

#### **Charts 4-6: Report on National and Regional Cumulative Program Totals Through FY 2002.**

Chart 4: *National End-of-Year Totals for UST Confirmed Releases and Cleanups Completed: FY 2002 Compared with Recent and Historical Averages.*

Chart 5: *End-of-Year FY 2002 UST Confirmed Releases by EPA Region Compared with Recent and Historical Averages.*

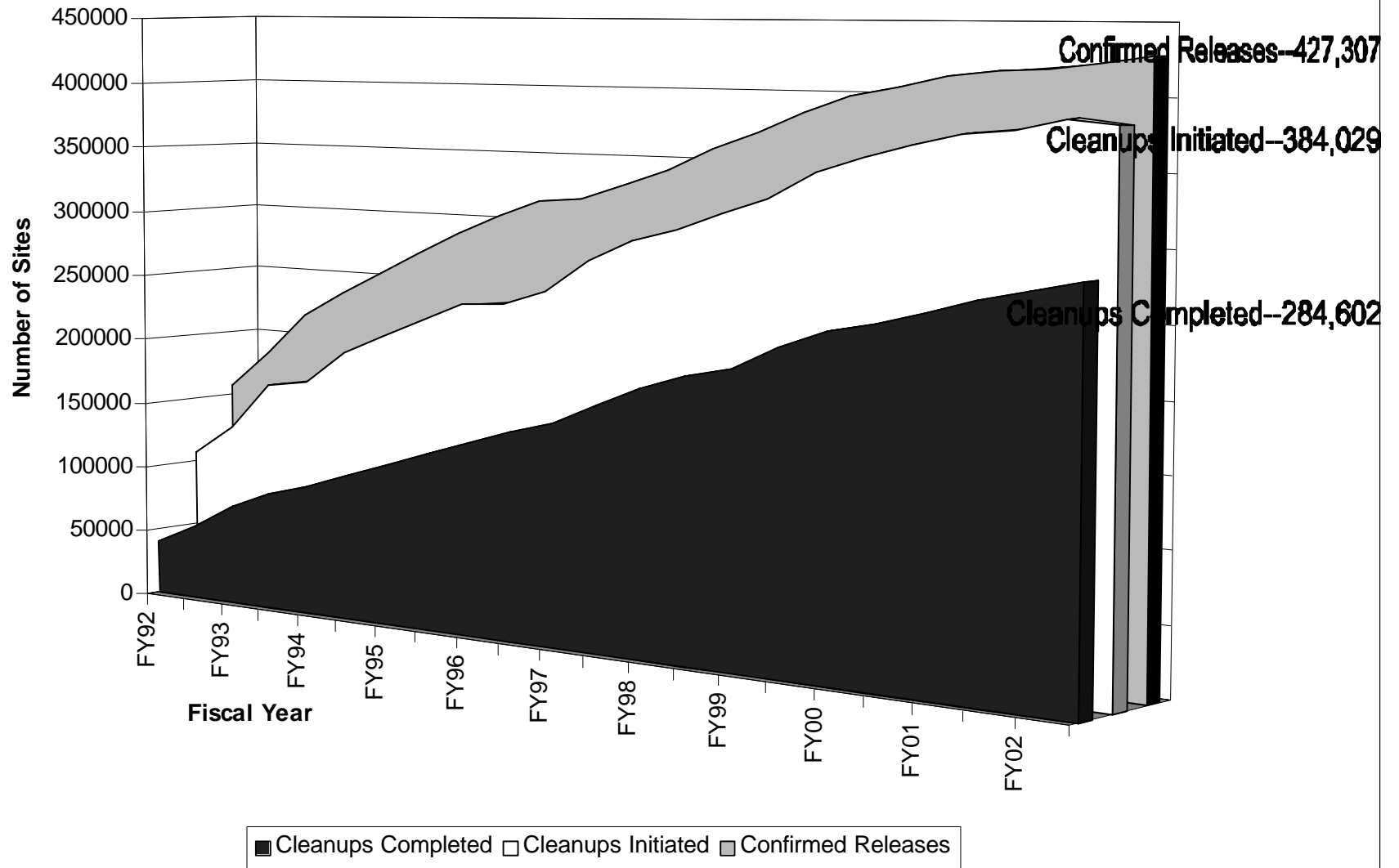
Chart 6: *End-of-Year FY 2002 UST Cleanups Completed by EPA Region Compared with Recent and Historical Averages.*

#### **Chart 7: UST National Backlog: FY1990 Thru FY 2002.**

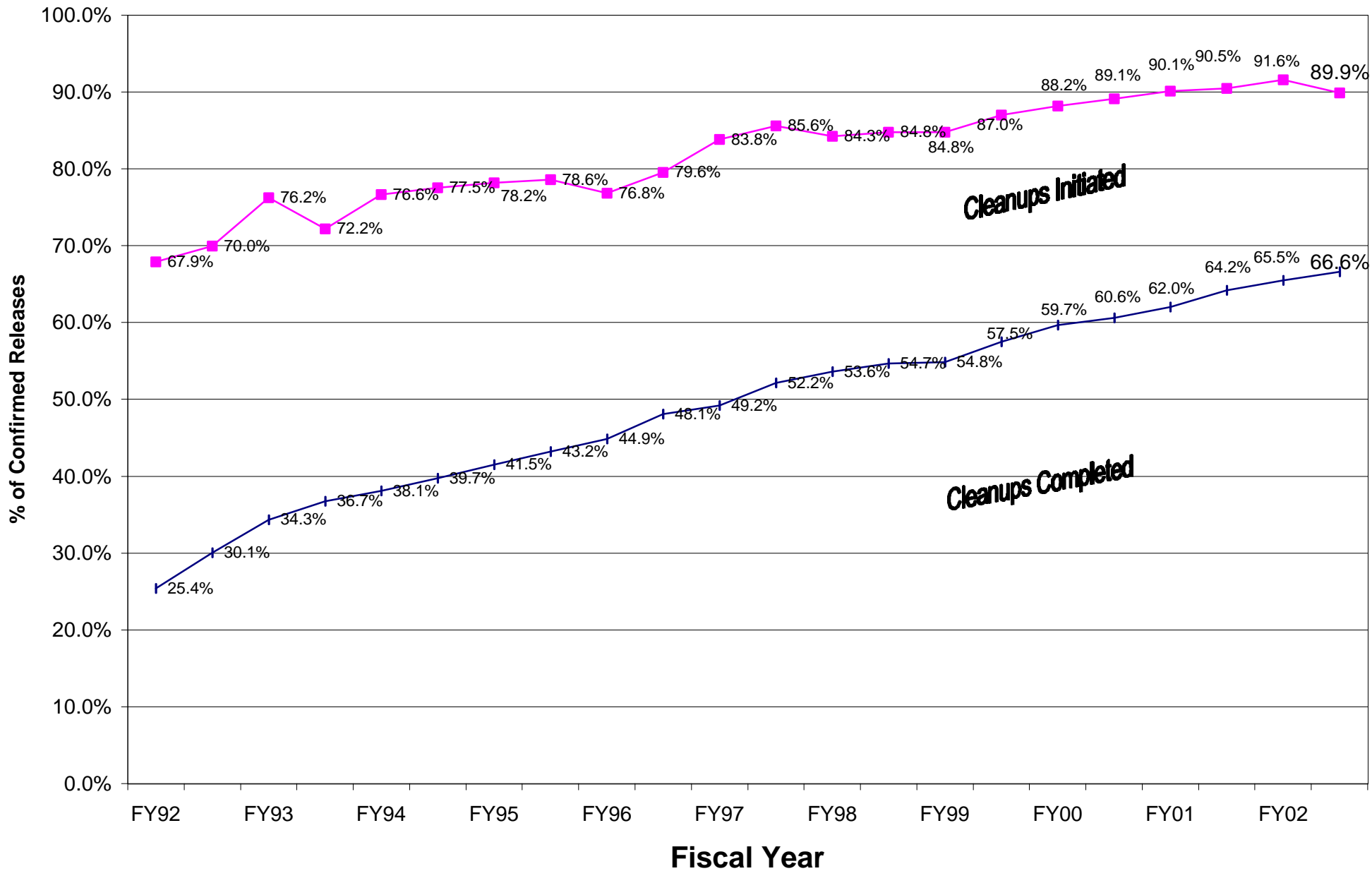


# Chart 1: National UST Corrective Action Activity

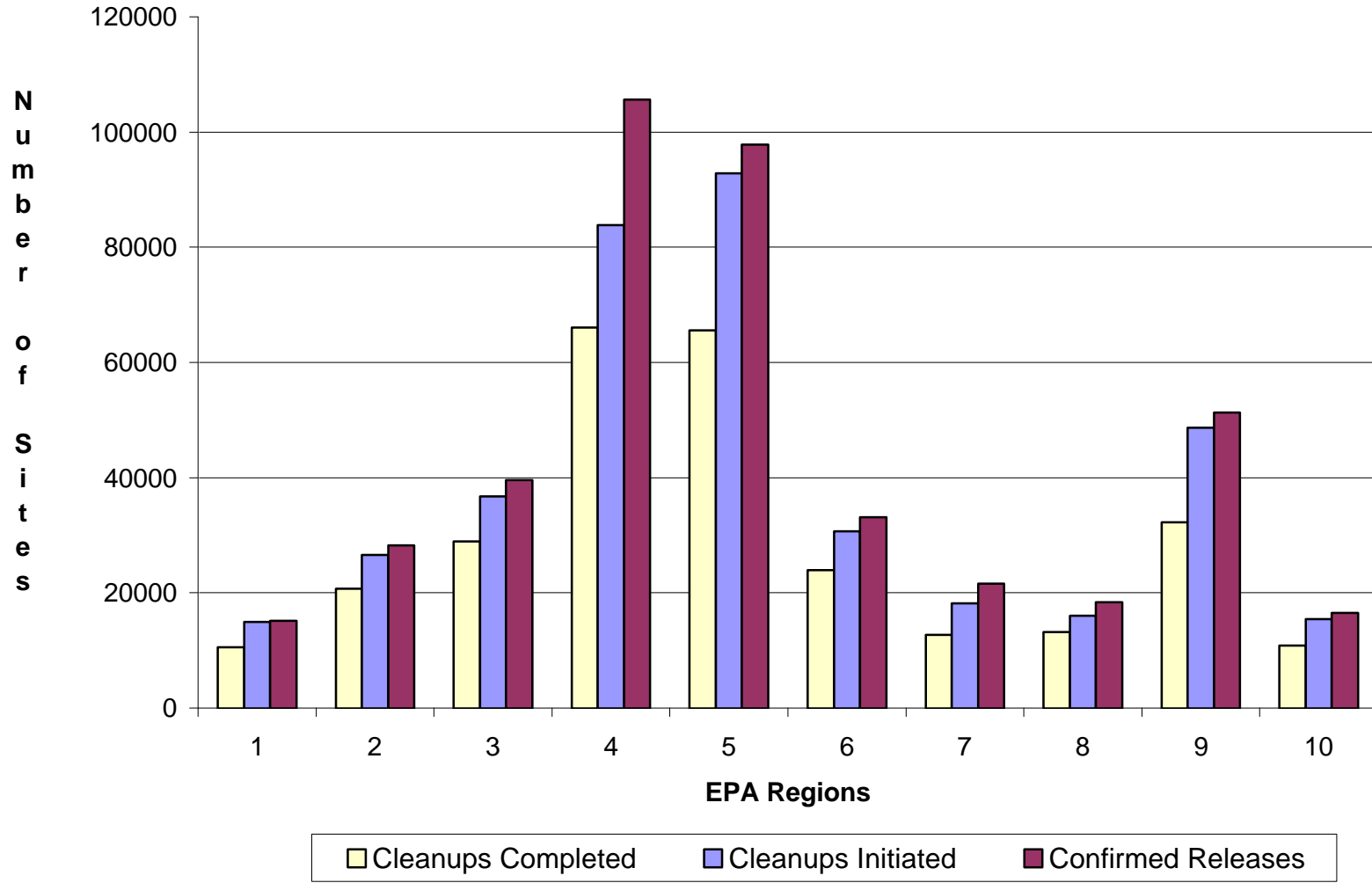
Total corrective action cumulative over time from FY1992 - FY2002



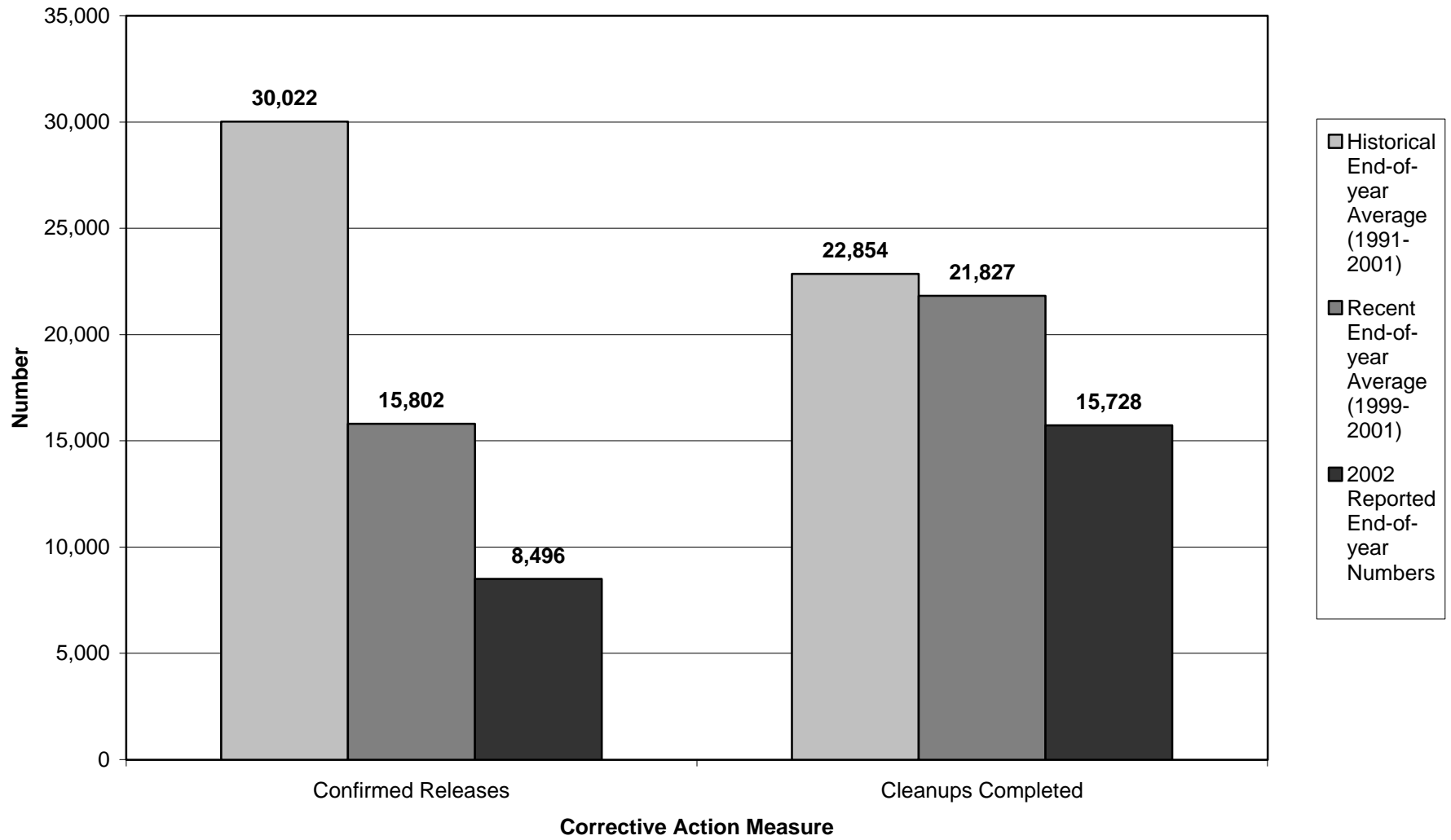
## Chart 2: National UST Cleanups Initiated and Completed as a Percentage of Confirmed Releases



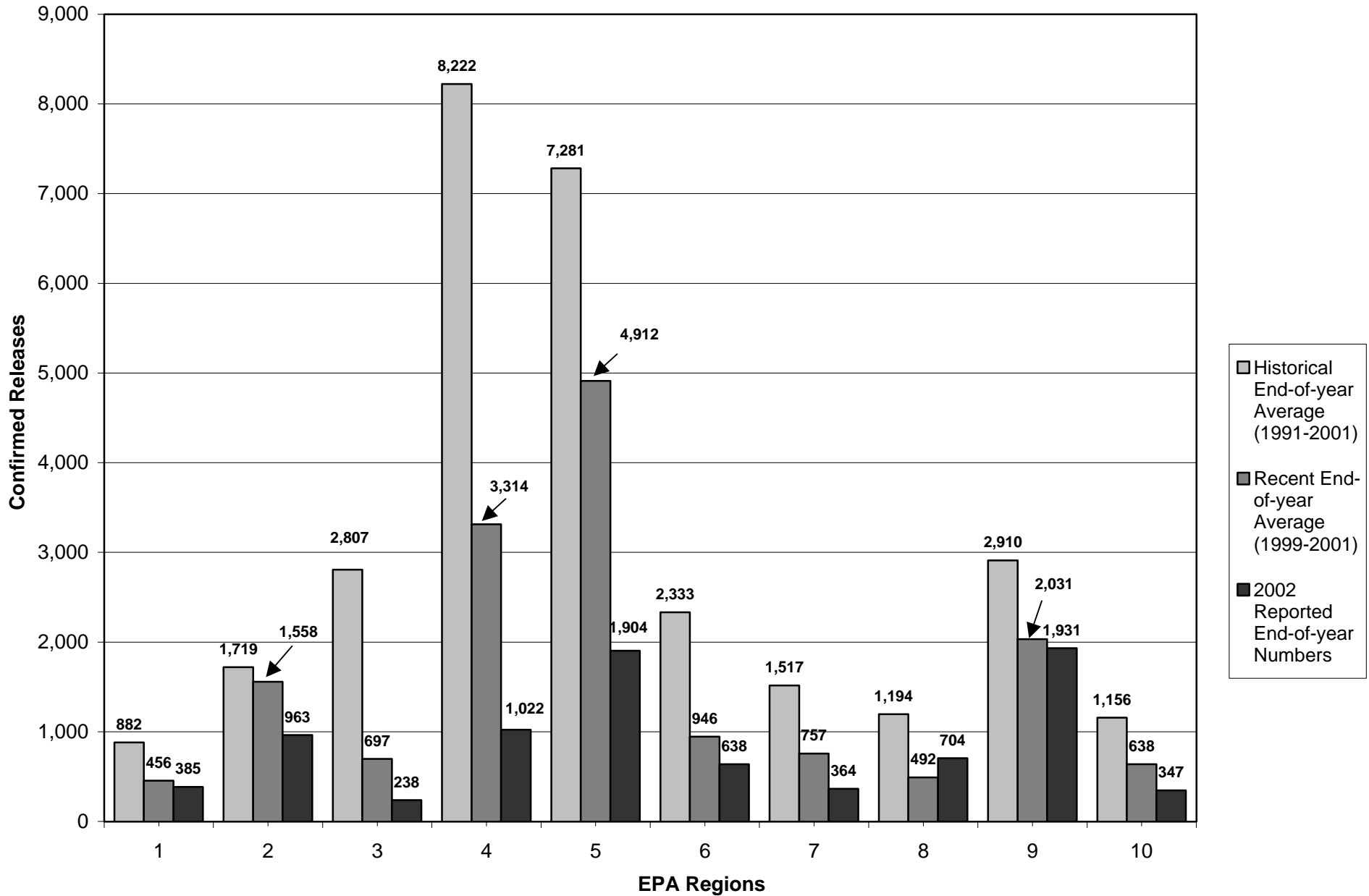
**Chart 3: UST Cleanup Activity by EPA Region**  
*Cumulative From FY1992 thru FY2002*



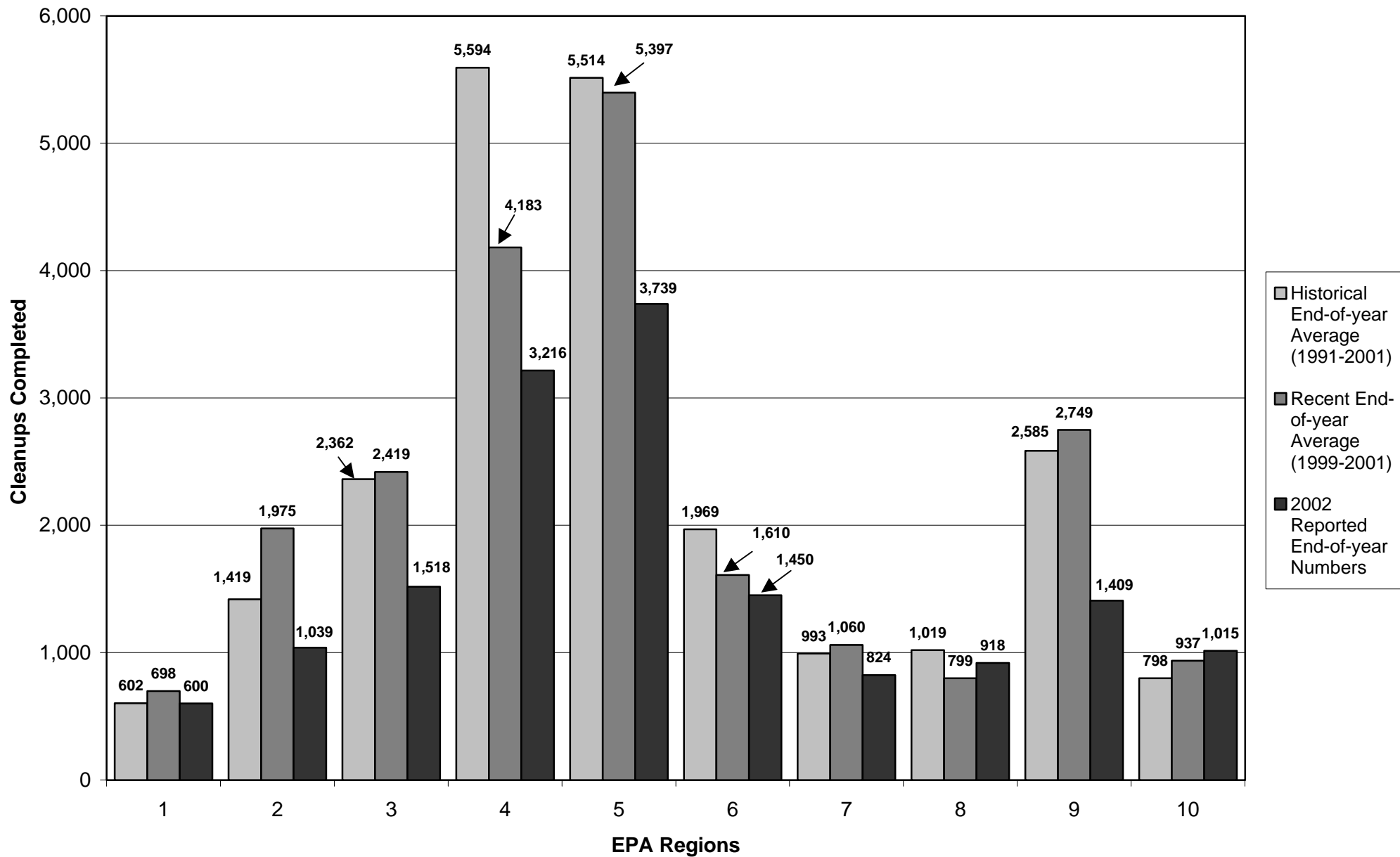
**Chart 4: National End-of-Year Totals for UST Confirmed Releases and Cleanups Completed:  
FY 2002 Compared with Recent and Historical Averages**



**Chart 5: End-of-Year FY 2002 UST Confirmed Releases by EPA Region Compared with Recent and Historical End-of-Year Averages**



**Chart 6: End-of-Year FY 2002 UST Cleanups Completed by EPA Region Compared with Recent and Historical End-of-Year Averages**



**Chart 7: State of the National Cleanup Backlog: End-of-Year 1990-2002**

