



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

OFFICE OF  
SOLID WASTE AND EMERGENCY  
RESPONSE

NOV 25 2003

**MEMORANDUM**

**SUBJECT:** FY 2003 Semi-Annual 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", with a large circular flourish at the end.

**TO:** UST/LUST Regional Division Directors, Regions 1 - 10

The FY 2003 End-of-Year activities report for underground storage tanks shows both improvements made and challenges needing to be addressed. I am pleased to report that we are continuing to make progress in cleaning up sites, reducing our cleanup backlog and assuring compliance.

As you are aware, last year we established annual national and regional cleanup goals (expressed as a range of completing 18,000 to 23,000 cleanups) to guide us in our endeavor to continue to reduce our existing backlog of on-going cleanups. As a result of our collective efforts in FY 2003 we completed over 18,500 cleanups this year, exceeding the lower end of our national goal. This represents a 17% increase in the number of cleanups completed over last year, reversing a three year downward trend. This leaves us with a backlog of 136,000 releases remaining to be cleaned up.

As you are also aware, we are also collecting information on significant operational compliance for the 638,000 active tanks nationwide. At the end of FY 2003, the compliance rates for release prevention were 79%, and for release detection the compliance rates were 72%. Future reports will be based on the new Significant Operation Compliance Guidance, which Walker Smith and I issued in September. We expect the new measures to be even more accurate indicators of operational compliance.

Finally, as a result of improved leak detection and prevention activities we continue to see the number of new releases to be significantly lower than the annual historical average number of confirmed releases. In FY 2003 we reported approximately 12,000 new releases, about 60% lower than the annual historical average number of confirmed releases.

I am attaching the FY 2003 End-of-Year activity report for the UST program for regions, states and Indian Country. Attachment 1 presents the corrective action, release detection and release prevention compliance measures data through September 2003. Attachment 2 provides cumulative and annual cleanup trends nationally and regionally.

I want to thank you and your staff for following the new Quality Assurance/Quality Control Checklist that we included with our request for data this year. By using this checklist I believe we can ensure the highest quality information is included in the Semi-Annual Activities Report.

#### Attachments

cc: Marianne Horinko, OSWER  
Barry Breen, OSWER  
Devereaux Barnes, OSWER  
Susan Bromm, OECA  
Walker Smith, OECA  
Dave Kling, OECA  
Michael Stahl, OECA  
Diana Saenz, OECA (2246A)  
OUST Staff  
UST Regional Branch Chiefs 1 - 10  
UST Regional Program Managers 1 - 10  
Alison Miner, OCFO (2732)  
Susan Janowick, OSWER/ARMS (5103)  
Bruce Pumphrey, OSWER  
Lorna Washington, OSWER/ARMS (5103)

# **ERRATA SHEET**

for

## **FY2003 End of Year Activity Report Memorandum and Attachments dated November 25, 2003**

**Memorandum, page 1, 3<sup>rd</sup> paragraph:** Sentence should read:

“As you are also aware, we are also collecting information on significant operational compliance for the **683,000** active tanks nationwide.”

### **Attachments**

#### **Chart 4 “National Totals for UST Confirmed Release and Cleanups Completed” Confirmed Releases**

“Recent Average” number is 9,829

“2003 Reported Activities” number is 12,078

#### **Cleanups Completed**

“Recent Average” number is 18,559

“2003 Reported Activities” number is 18,518

#### **Charts 5 & 6 “FY2003 UST Confirmed Releases and Cleanups Completed by EPA Region Compared with Recent and Historical Averages”**

##### **Confirmed Releases and Cleanups Completed**

“Recent Averages” and “2003 Reported Activities” corrected erroneous database information

**Attachment 1**

**UST Corrective Action Measures for End of Year FY2003 (as of September 30, 2003)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>ONE</b>							
CT	12,495	18,963	2,364	2,320	1,524	840	109
MA	11,567	21,492	5,906	5,697	4,385	1,521	4,822
ME	3,513	11,958	2,039	2,020	1,938	101	346
NH	3,023	10,574	2,118	2,118	1,257	861	606
RI	1,742	7,014	1,189	1,189	936	253	26
VT	2,962	5,087	1,892	1,880	1,062	830	256
<b>SUBTOTAL</b>	<b>35,302</b>	<b>75,088</b>	<b>15,508</b>	<b>15,224</b>	<b>11,102</b>	<b>4,406</b>	<b>6,165</b>
<b>TWO</b>							
NJ	19,174	51,973	9,146	8,289	5,416	3,730	51
NY	30,078	77,241	19,275	18,691	16,477	2,798	398
PR	4,681	5,143	995	826	354	641	165
VI	124	278	14	14	0	14	16
<b>SUBTOTAL</b>	<b>54,057</b>	<b>134,635</b>	<b>29,430</b>	<b>27,820</b>	<b>22,247</b>	<b>7,183</b>	<b>630</b>
<b>THREE</b>							
DC	723	2,985	770	770	510	260	224
DE	1,610	6,311	2,137	2,012	1,835	302	388
MD	9,294	27,083	11,937	10,118	8,604	3,333	328
PA	27,079	57,250	13,248	13,140	9,133	4,115	27
VA	28,524	48,216	9,821	9,528	8,894	927	63
WV	6,296	18,094	2,760	2,602	1,527	1,233	9
<b>SUBTOTAL</b>	<b>73,526</b>	<b>159,939</b>	<b>40,673</b>	<b>38,170</b>	<b>30,503</b>	<b>10,170</b>	<b>1,039</b>
<b>FOUR</b>							
AL	18,267	28,079	10,613	10,526	8,886	1,727	271
FL	33,248	90,374	25,114	13,959	7,066	18,048	204
GA	39,152	43,002	10,219	9,689	6,859	3,360	9
KY	13,648	33,802	12,624	12,617	10,018	2,606	148
MS	9,079	21,190	6,298	6,129	5,966	332	110
NC	31,057	61,559	22,941	22,232	15,819	7,122	489
SC	12,398	30,807	8,411	7,949	4,776	3,635	92
TN	16,487	31,569	12,236	11,576	10,930	1,306	67
<b>SUBTOTAL</b>	<b>173,336</b>	<b>340,382</b>	<b>108,456</b>	<b>94,677</b>	<b>70,320</b>	<b>38,136</b>	<b>1,390</b>

**Attachment 1**

**UST Corrective Action Measures for End of Year FY2003 (as of September 30, 2003)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>FIVE</b>							
IL	23,526	60,612	21,723	20,232	12,743	8,980	1,713
IN	14,399	34,291	7,919	6,843	4,154	3,765	221
MI	21,862	62,839	20,058	19,690	11,135	8,923	83
MN	13,989	28,020	9,243	8,641	7,873	1,370	411
OH	25,049	40,516	22,819	22,440	19,022	3,797	417
WI	14,212	63,383	17,863	17,064	13,830	4,033	381
<b>SUBTOTAL</b>	<b>113,037</b>	<b>289,661</b>	<b>99,625</b>	<b>94,910</b>	<b>68,757</b>	<b>30,868</b>	<b>3,226</b>
<b>SIX</b>							
AR	9,979	19,443	1,181	905	843	338	12
LA	14,544	30,348	2,580	1,858	1,535	1,045	613
NM	4,201	12,052	2,408	1,651	1,478	930	77
OK	11,985	23,802	3,871	3,871	3,312	559	75
TX	58,564	106,497	23,487	21,364	17,927	5,560	491
<b>SUBTOTAL</b>	<b>99,273</b>	<b>192,142</b>	<b>33,527</b>	<b>29,649</b>	<b>25,095</b>	<b>8,432</b>	<b>1,268</b>
<b>SEVEN</b>							
IA	7,910	21,538	5,683	5,478	3,485	2,198	0
KS	7,628	18,883	4,487	4,236	2,416	2,071	115
MO	10,318	27,703	5,933	5,608	4,525	1,408	318
NE	6,955	13,865	5,876	3,237	2,927	2,949	10
<b>SUBTOTAL</b>	<b>32,811</b>	<b>81,989</b>	<b>21,979</b>	<b>18,559</b>	<b>13,353</b>	<b>8,626</b>	<b>443</b>
<b>EIGHT</b>							
CO	8,359	20,341	6,210	5,890	5,142	1,068	39
MT	3,415	12,112	2,863	2,146	1,782	1,081	43
ND	2,198	6,793	789	780	745	44	4
SD	3,027	6,084	2,210	2,148	1,959	251	19
UT	4,019	12,129	3,951	3,749	3,431	520	3
WY	2,007	7,369	1,893	1,148	568	1,325	62
<b>SUBTOTAL</b>	<b>23,025</b>	<b>64,828</b>	<b>17,916</b>	<b>15,861</b>	<b>13,627</b>	<b>4,289</b>	<b>170</b>

**Attachment 1**

**UST Corrective Action Measures for End of Year FY2003 (as of September 30, 2003)**

Region/State	Active Tanks	Closed Tanks	Confirmed Releases	Cleanups Initiated	Cleanups Completed	Cleanup Backlog	Emergency Responses
<b>NINE</b>							
AZ	8,403	19,465	8,008	5,516	5,638	2,370	2
CA	41,649	116,263	42,344	42,344	26,775	15,569	0
HI	1,867	4,881	1,732	1,675	1,385	347	0
NV	3,696	6,553	2,407	2,400	2,130	277	52
CNMI	69	19	11	11	0	11	0
GU	280	394	132	132	108	24	0
AS	12	52	7	7	0	7	1
<b>SUBTOTAL</b>	<b>55,976</b>	<b>147,627</b>	<b>54,641</b>	<b>52,085</b>	<b>36,036</b>	<b>18,605</b>	<b>55</b>
<b>TEN</b>							
AK	1,120	6,117	2,270	2,121	1,208	1,062	95
ID	3,548	9,157	1,301	1,274	1,115	186	12
OR	6,755	25,640	6,737	6,369	5,060	1,677	56
WA	8,457	36,728	6,286	5,894	4,105	2,181	37
<b>SUBTOTAL</b>	<b>19,880</b>	<b>77,642</b>	<b>16,594</b>	<b>15,658</b>	<b>11,488</b>	<b>5,106</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	60	53	10	10	4	6	0
REGION 5	389	971	191	188	115	76	0
REGION 6	281	186	33	33	30	3	1
REGION 7	88	90	19	14	7	12	0
REGION 8	568	1,885	436	419	220	216	8
REGION 9	694	1,185	198	146	108	90	0
REGION 10	384	830	143	134	108	35	0
<b>SUBTOTAL</b>	<b>2,647</b>	<b>5,223</b>	<b>1,036</b>	<b>945</b>	<b>592</b>	<b>444</b>	<b>11</b>
	<b>Active Tanks</b>	<b>Closed Tanks</b>	<b>Confirmed Releases</b>	<b>Cleanups Initiated</b>	<b>Cleanups Completed</b>	<b>Cleanup Backlog</b>	<b>Emergency Responses</b>
<b>National Total</b>	<b>682,870</b>	<b>1,569,156</b>	<b>439,385</b>	<b>403,558</b>	<b>303,120</b>	<b>136,265</b>	<b>14,597</b>

## UST Leak Detection and Upgrading Compliance Measures for End of Year FY2003 (as of 9/30/03)

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
ONE			FIVE		
CT	94%	59%	IL	45%	44%
ME	96%	69%	IN	58%	41%
MA	39%	55%	MI	71%	49%
NH	75%	41%	MN	data not available	72%
RI	88%	29%	OH	96%	86%
VT	62%	53%	WI	100%	92%
SUBTOTAL	72%	55%	SUBTOTAL	73%	63%
TWO			SIX		
NJ	64%	72%	AR	63%	60%
NY	77%	64%	LA	data not available	data not available
PR	87%	80%	NM	99%	96%
VI	85%	69%	OK	95%	95%
SUBTOTAL	73%	68%	TX	88%	76%
THREE			SUBTOTAL	87%	78%
DC	88%	99%	SEVEN		
DE	52%	59%	IA	72%	70%
MD	60%	61%	KS	98%	70%
PA	74%	67%	MO	93%	90%
VA	64%	57%	NE	69%	58%
WV	82%	70%	SUBTOTAL	84%	74%
SUBTOTAL	69%	63%	EIGHT		
FOUR			CO	data not available	data not available
AL	83%	82%	MT	data not available	data not available
FL	95%	93%	ND	66%	77%
GA	data not available	data not available	SD	data not available	data not available
KY	85%	85%	UT	81%	65%
MS	82%	92%	WY	data not available	data not available
NC	67%	68%	SUBTOTAL	76%	69%
SC	88%	76%			
TN	87%	84%			
SUBTOTAL	83%	82%			

**UST Leak Detection and Upgrading Compliance Measures for End of Year FY2003 (as of 9/30/03)**

Region/State	% in Significant Operational Compliance with Release Prevention	% in Significant Operational Compliance with Leak Detection Regulations
<b>NINE</b>		
AZ	98%	96%
CA	92%	88%
HI	97%	88%
NV	89%	82%
CNMI	96%	75%
GU	47%	93%
AS	100%	80%
SUBTOTAL	93%	89%
<b>TEN</b>		
AK	77%	70%
ID	70%	56%
OR	65%	46%
WA	76%	59%
SUBTOTAL	71%	55%

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	N/A	N/A
REGION 2	data not available	data not available
REGION 3	N/A	N/A
REGION 4	100%	66%
REGION 5	64%	59%
REGION 6	data not available	data not available
REGION 7	71%	29%
REGION 8	88%	70%
REGION 9	75%	68%
REGION 10	55%	35%
SUBTOTAL	73%	59%
<b>NATIONAL TOTAL</b>	<b>79%</b>	<b>72%</b>

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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.**

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Attachment #2

FY2003 Corrective Action Trend Analysis

This attachment contains seven charts that provide analyses of FY 2003 end-of-year regional and national corrective action program performance. These charts are being 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:

**Chart 1-3: Report on National and Regional Cumulative Program Totals Through FY 2003.**

Chart 1: *National UST Cumulative Corrective Action Activity: Cumulative from FY 1992 thru FY 2003.*

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 1987 thru FY 2003.*

**Charts 4-6: Comparison of National and Regional End-of-Year Performance with Past End-of-Year Averages**

Chart 4: *National End-of-Year Totals for UST Confirmed Releases and Cleanups Completed: FY 2003 Compared with Recent and Historical Averages*

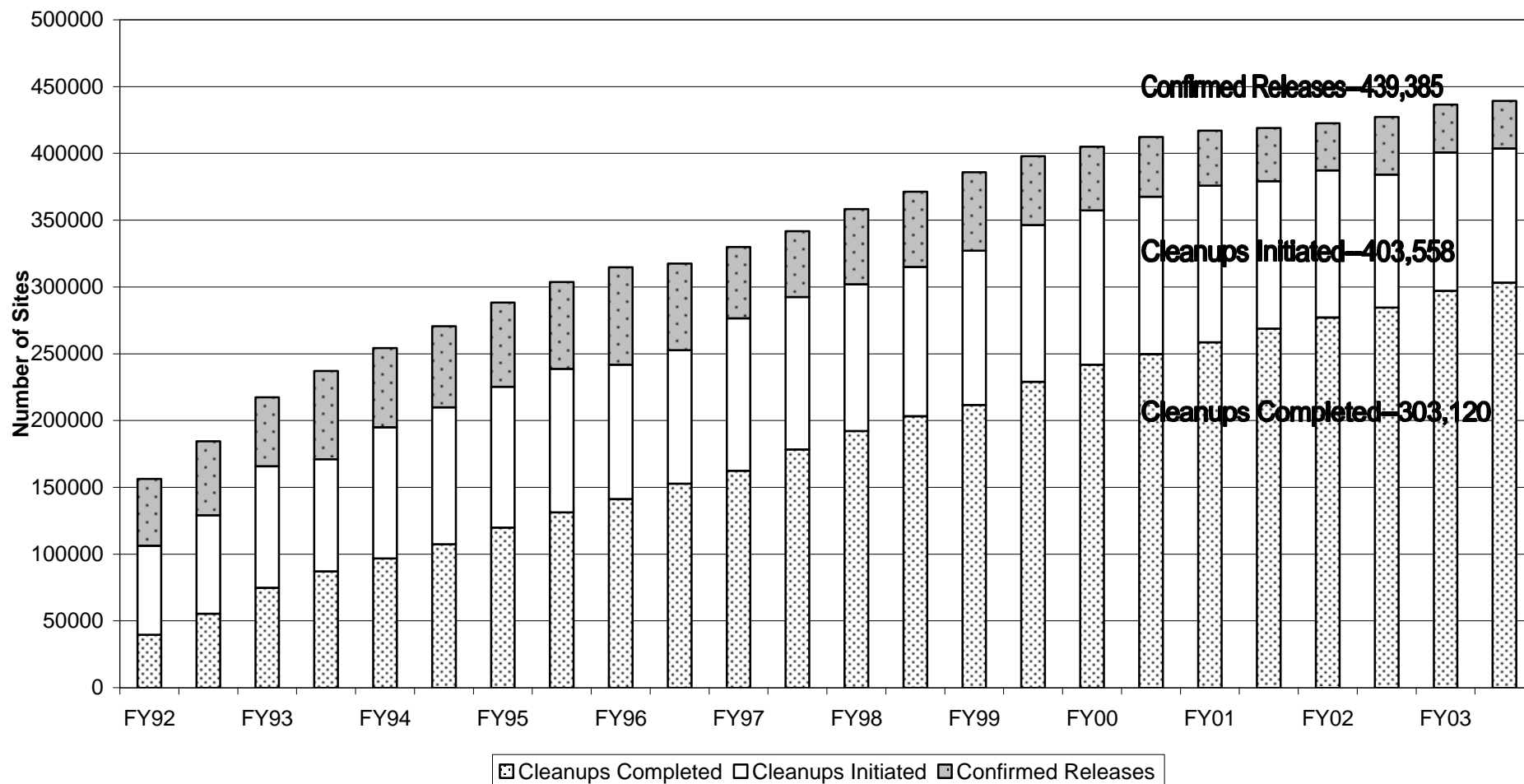
Chart 5: *FY 2003 UST Confirmed Releases by EPA Region Compared with Recent and Historical Averages*

Chart 6: *FY 2003 UST Cleanups Completed by EPA Region Compared with Recent and Historical Averages.*

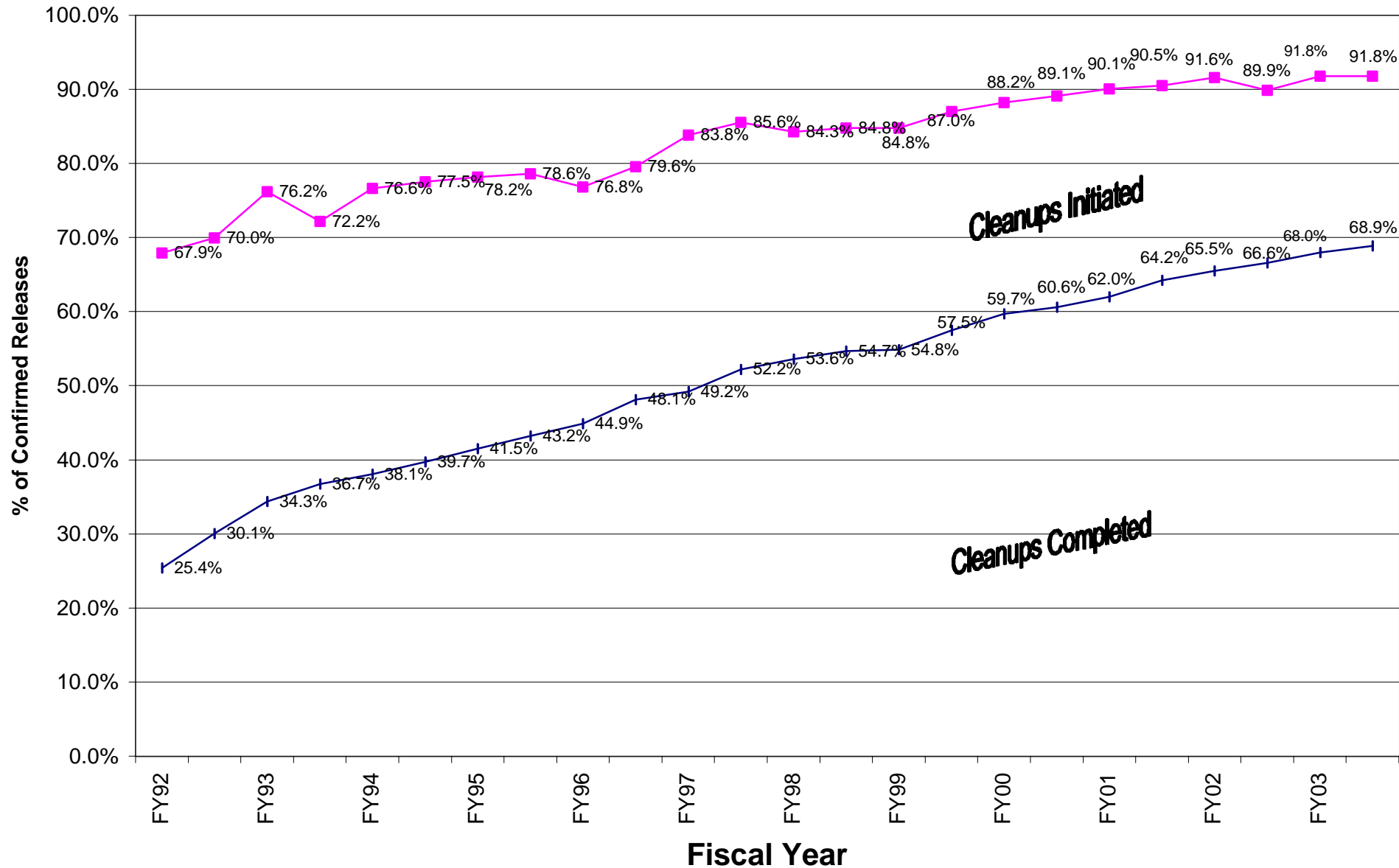
**Charts 7: UST National Backlog: FY 1988 Thru FY 2003.**

# Chart 1: National UST Corrective Action Activity

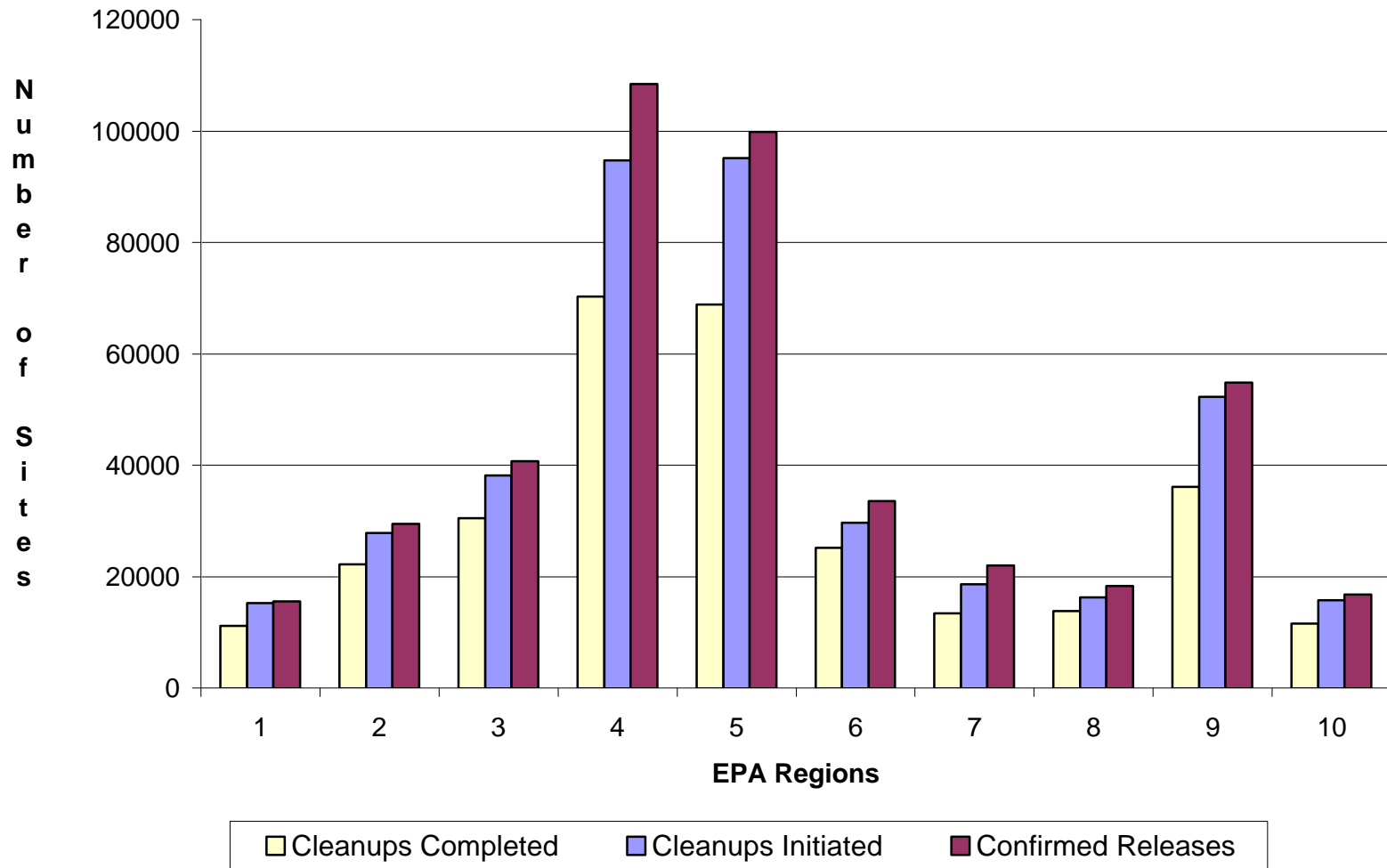
Total corrective action cumulative over time from FY1992- FY2003



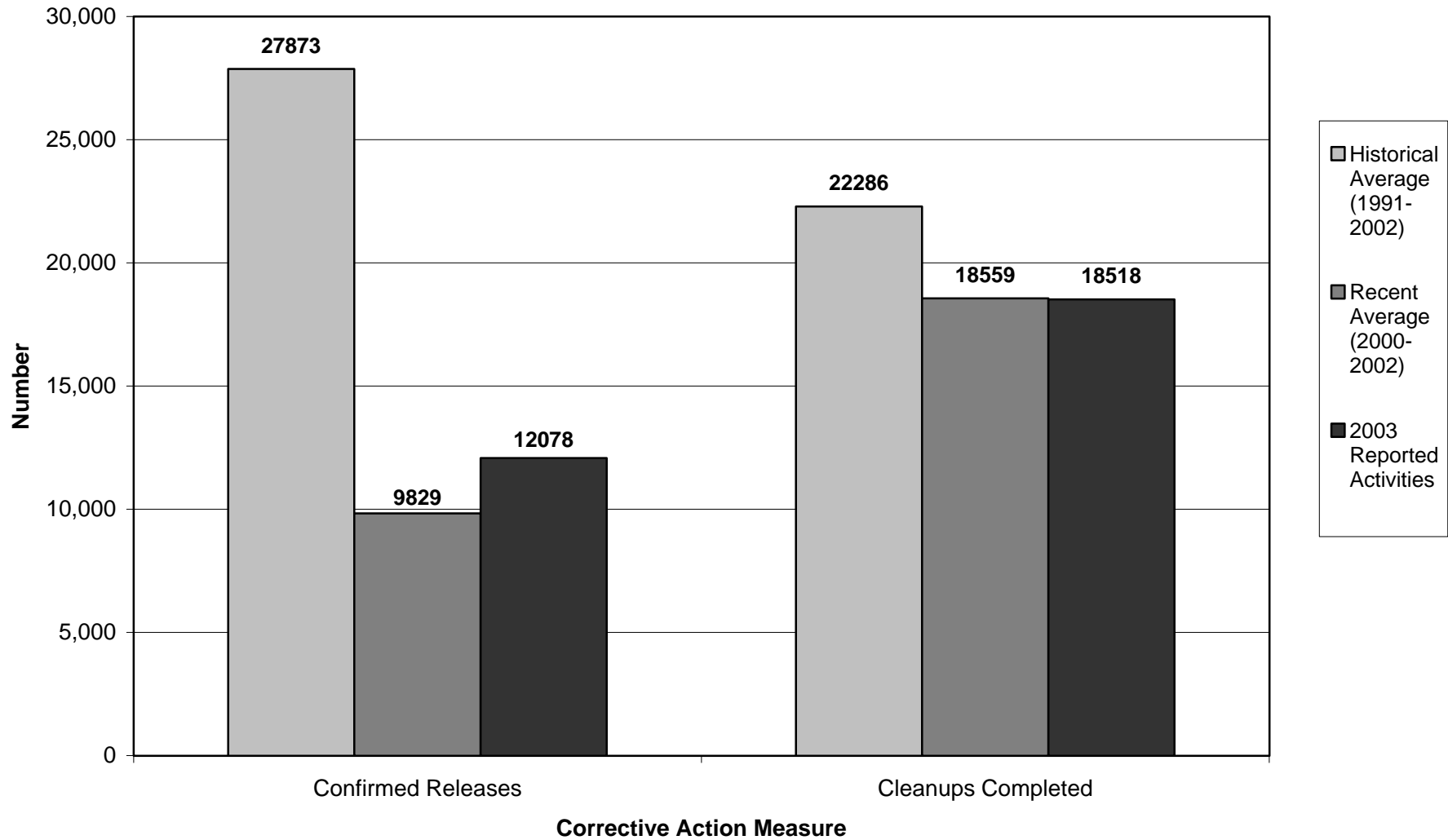
## Chart 2: National UST Cleanups Initiated and Completed as a Percentage of Confirmed Releases



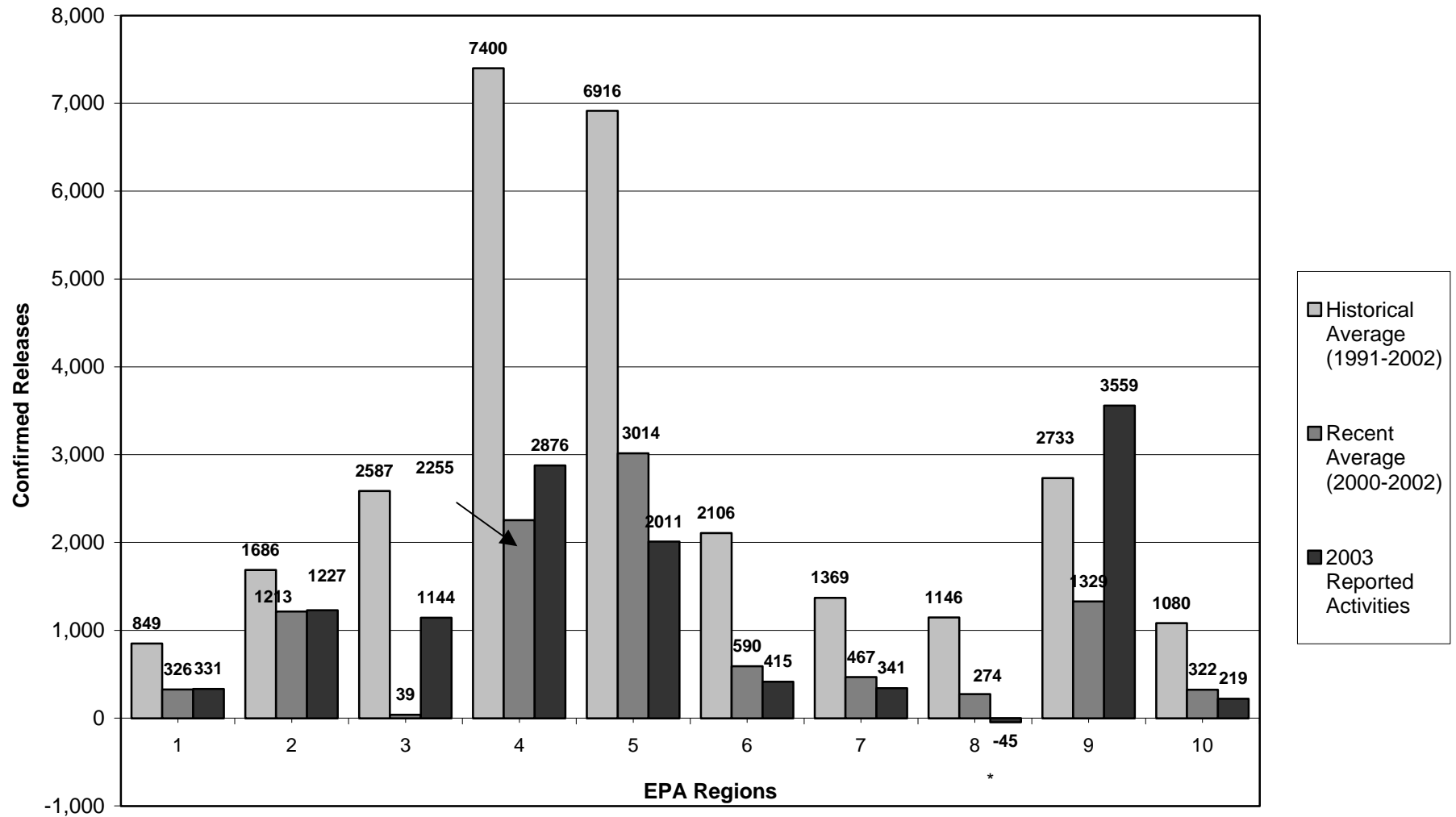
**Chart 3: UST Cleanup Activity by EPA Region**  
*Cumulative From FY1987 thru End-of-Year FY2003*



**Chart 4: National Totals for UST Confirmed Releases and Cleanups Completed:  
FY 2003 Compared with Recent and Historical Averages**



**Chart 5: FY 2003 UST Confirmed Releases by EPA Region Compared with Recent and Historical Averages**



\* Negative numbers may result if corrections to data exceed the actions taken for this reporting period.

**Chart 6: FY 2003 UST Cleanups Completed by EPA Region Compared with Recent and Historical Averages**

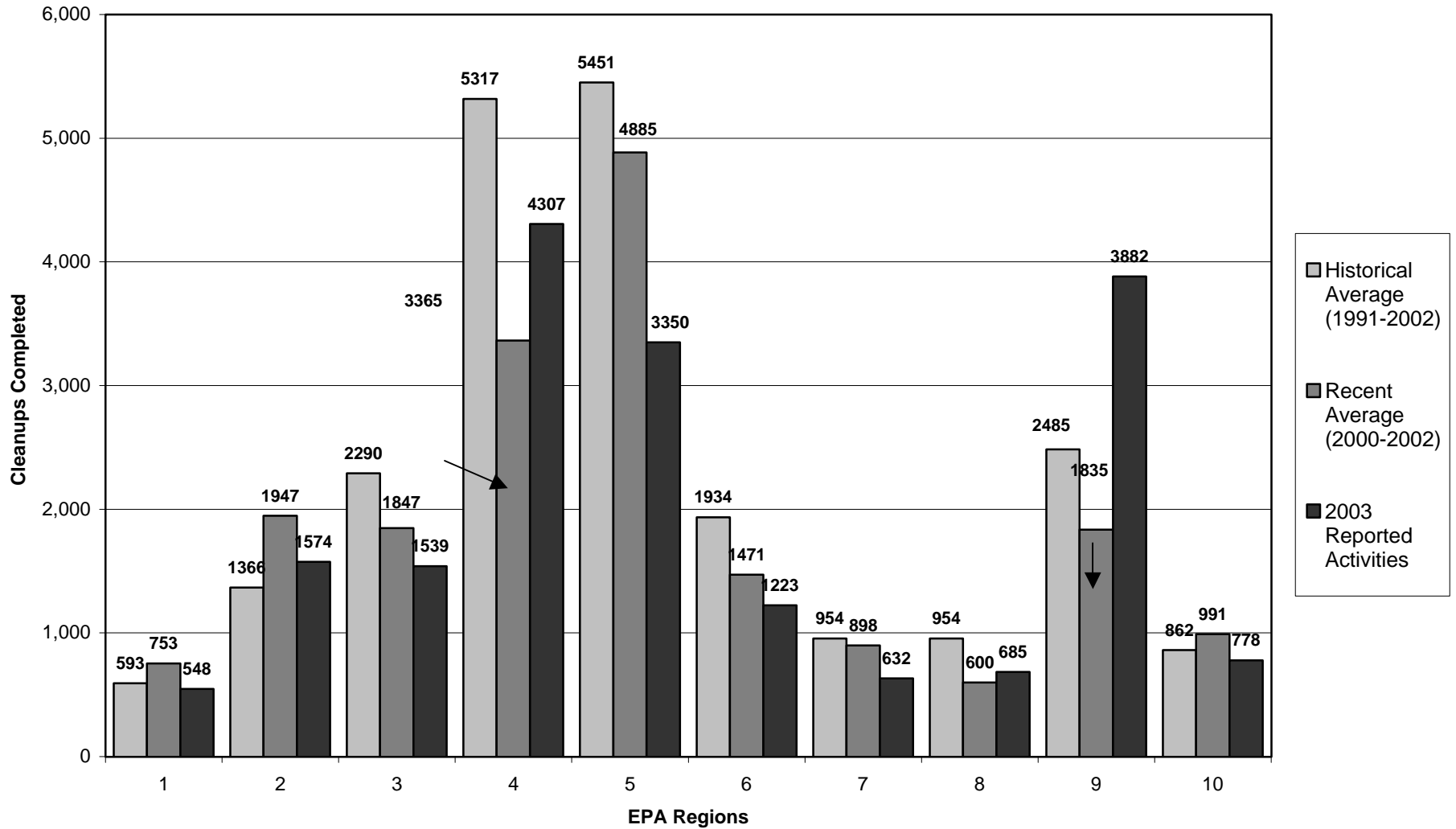


Chart 7: UST National Cumulative Backlog 1988 Thru 2003

