

MEMORANDUM

TO: Distribution ListFROM: Lisa Perrin DATE: January 24, 1994SUBJECT: City of Seattle November/December Curbside Recycling Report

DECEMBER 1993 FIGURES:

Sign-Ups¹

North End: 97.1% (67,988 of 70,000 eligible households)
 South End²: 82.9% (65,078 of 78,500 eligible households)
 Citywide: 89.6% (133,066 of 148,500 eligible households)
 Averaging: 9 sign-ups per day

Tonnage

North End: 2,853 (7.7% increase over January-December '92)
 South End: 2,088 (2.4% increase over January-December '92)
 Citywide: 4,941 (5.2% increase over January-December '92)
 Cumulative: In 1993, we have collected 50,795 tons.
 Total annual tonnages for 1988 through 1992
 were 23,984, 40,732, 45,736 & 47,558, 48,287 respectively.

Selected Statistics

Average Pounds Per Sign-Up Per Month for January - December 1993.

- North End: 68.0
- South End: 60.5
- Citywide: 64.3

Service

- North of Ship Canal: Source-separated weekly collection from 3 bins
- South of Ship Canal: Co-mingled monthly collection from 90 gallon cart
- Materials city wide: News, Mixed Paper, Glass, Aluminum, Tin, PET & HDPE³ Bottles

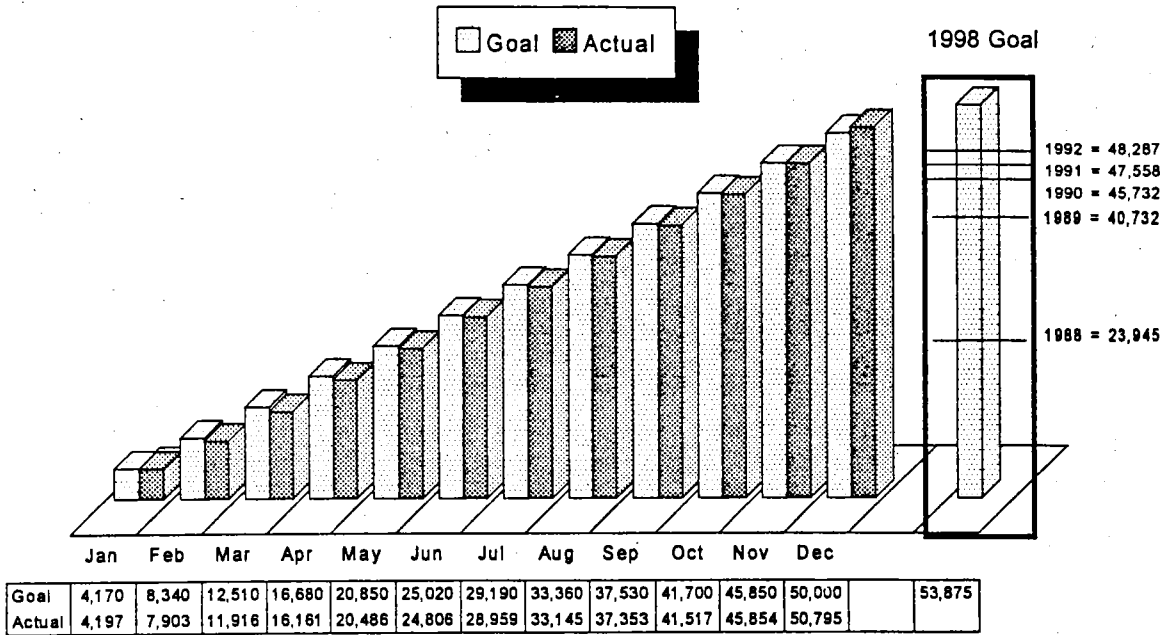
1. Sign-up differences in the north and south end programs may at least be partially explained by demographic differences between the north and south portions of the City.
2. The drop in the number of south end sign-ups from February to March 1993 reflects a revision to the customer sign-up data. The number of south end set-outs for March was not available due to this adjustment.
3. HDPE Bottles were added in April 1992. Breakdown of plastics between HDPE and PET is not available.

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WASHINGTON UTILITIES CO. TRADING COMPANY	
No. TG-940411	56✓

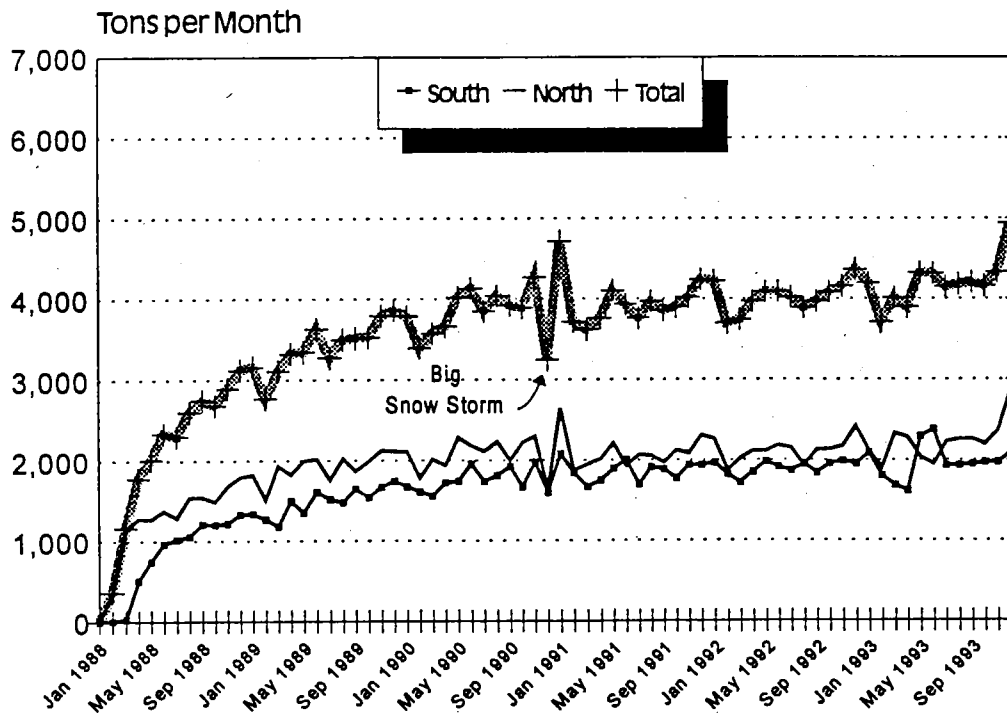
Seattle Curbside Recycling

ACTUAL VS. GOAL



Cumulative Tons Collected 1993

MONTHLY TONNAGE COLLECTED



CURBSIDE RECYCLING PROGRAM

TOTAL CITY TONNAGE DATA

Yr	Mo	NEWS	MIX PAP	GLASS	ALUM	TIN	PET	CONT.	TOTAL w/cont	TOTAL w/o cont	SIGN UPS	SET OUTS	ELIGIBLE HOUSEHOLDS	PERCENT SIGN UP	TOTAL		AVERAGE SIGN UPS/DAY
															POUNDS	UP	
92	1	1,607.3	1,643.9	767.5	72.3	110.3	25.0	94.7	4,320.9	4,226.2	126,804	249,800	148,500	65.4%	66.7	NA	
92	2	1,332.3	1,337.8	827.9	65.6	108.0	20.3	92.3	3,784.2	3,691.8	127,189	213,854	148,500	85.6%	58.1	14	
92	3	1,335.0	1,359.0	827.7	66.1	108.6	41.3	100.5	3,838.1	3,737.6	127,436	229,006	148,500	85.8%	58.7	6	
92	4	1,419.8	1,436.3	898.0	71.5	117.6	21.9	96.2	4,061.2	3,965.0	127,916	240,302	148,500	86.1%	62.0	16	
92	5	1,472.1	1,481.8	920.1	73.1	120.2	22.5	100.8	4,190.6	4,089.7	128,326	239,748	148,500	86.4%	63.7	13	
92	6	1,468.0	1,483.0	927.2	73.9	121.4	22.6	105.2	4,199.2	4,094.0	128,556	250,711	148,500	86.6%	63.7	8	
92	7	1,439.3	1,456.7	911.3	72.6	119.3	22.3	103.9	4,125.4	4,021.5	128,807	247,335	148,500	86.7%	62.4	8	
92	8	1,405.9	1,407.7	867.8	68.7	113.1	21.3	103.0	3,987.4	3,884.4	129,164	233,505	148,500	87.0%	60.1	12	
92	9	1,418.8	1,436.4	899.0	71.6	117.7	21.9	104.8	4,070.1	3,965.5	129,642	247,693	148,500	87.3%	61.2	18	
92	10	1,468.0	1,480.2	921.4	73.2	120.4	22.5	106.1	4,191.8	4,085.8	129,974	242,289	148,500	87.5%	62.9	11	
92	11	1,494.2	1,508.6	937.7	74.6	122.6	23.0	115.4	4,274.1	4,158.7	130,106	240,824	148,500	87.6%	63.9	4	
92	12	1,554.2	1,581.3	998.5	79.6	130.8	24.3	137.0	4,503.7	4,366.7	130,493	261,314	148,500	87.9%	66.9	12	
93	1	1,516.7	1,520.9	939.4	74.4	122.5	23.0	118.9	4,315.8	4,196.9	130,734	243,234	148,500	88.0%	64.2	8	
93	2	1,335.4	1,343.0	832.9	66.1	108.8	20.4	95.7	3,802.2	3,706.5	130,937	224,972	148,500	88.2%	56.8	7	
93	3	1,415.9	1,452.5	925.3	74.3	121.8	22.5	119.1	4,131.6	4,012.5	130,070	NA	148,500	87.6%	61.7	-28	
93	4	1,518.3	1,537.8	962.7	76.7	126.1	23.5	124.8	4,369.7	4,244.9	130,767	259,900	148,500	88.1%	64.9	23	
93	5	1,550.6	1,566.9	978.2	77.9	128.0	23.9	134.4	4,459.9	4,325.5	131,023	258,015	148,500	88.2%	66.0	8	
93	6	1,536.7	1,584.3	984.7	78.7	129.2	24.0	136.8	4,456.3	4,319.4	131,235	262,702	148,500	88.4%	65.8	7	
93	7	1,486.4	1,504.8	941.5	75.0	123.3	23.0	135.1	4,288.8	4,153.7	131,478	255,198	148,500	88.5%	63.2	8	
93	8	1,496.6	1,516.2	949.8	75.7	124.4	23.2	135.1	4,292.6	4,185.8	131,852	258,430	148,500	88.8%	63.5	12	
93	9	1,504.7	1,524.1	954.6	76.1	125.0	23.3	114.7	4,322.5	4,207.8	132,077	261,091	148,500	88.9%	63.7	8	
93	10	1,486.3	1,519.3	936.3	74.5	122.5	22.9	106.8	4,270.5	4,163.7	132,405	250,812	148,500	89.2%	62.9	11	
93	11	1,547.3	1,570.8	986.8	78.8	129.4	24.1	111.2	4,448.2	4,337.0	132,763	250,128	148,500	89.4%	65.3	13	
93	12	1,731.0	1,818.5	1,125.8	90.3	148.1	27.4	133.1	5,074.3	4,941.2	133,066	280,182	148,500	89.6%	74.3	9	
1993 Total:		16,129.9	16,438.5	11,518.0	918.5	1,508.9	281.1	1,437.3	52,232.2	50,794.9				1993 Avg:	64.3		
1992 Total:		17,412.9	17,610.6	10,702.1	862.8	1,409.9	286.8	1,259.8	49,546.6	46,287.0				1992 Avg:	62.5		
1991 Total:		16,103.2	16,537.9	9,540.4	684.5	1,423.7	288.3	1,004.4	46,562.4	47,558.0				1991 Avg:	58.3		
1990 Total:		17,375.0	17,201.8	9,098.9	595.1	1,308.7	183.0	685.9	46,422.4	45,736.5				1990 Avg:	59.8		
1989 Total:		15,115.6	15,149.5	8,671.4	433.2	1,280.0	81.9	121.0	40,852.6	40,731.6				1989 Avg:	58.8		
1988 Total:		10,481.4	7,759.7	4,833.6	242.3	649.2	0.0	39.4	23,985.6	23,946.2				1988 Avg:	54.6		

TOTAL CITY PERCENTAGE BREAKDOWN BY MATERIAL

YEAR	TOTAL				
	NEWS	MIX PAP	GLASS	ALUM	TIN
1993 Avg:	34.7%	35.3%	22.1%	1.6%	2.9%
1992 Avg:	35.1%	35.5%	21.6%	1.7%	2.8%
1991 Avg:	33.1%	40.2%	19.8%	1.4%	3.0%
1990 Avg:	37.4%	37.1%	19.6%	1.3%	2.8%
1989 Avg:	37.0%	37.1%	21.2%	1.1%	3.1%
1988 Avg:	43.7%	32.3%	20.2%	1.0%	2.7%

CURBSIDE RECYCLING PROGRAM

SOUTH END TONNAGE DATA

Yr	Mo	NEWS	MIX PAP	GLASS	ALUM	TIN	PET	CONT	TOTAL w/cont	SIGN UPS	SET OUTS	ELIGIBLE HOUSEHOLDS	PERCENT SIGN UP		SOUTH AVERAGE	
													UP	DOWN	POUNDS/ SIGN UP	UP/ DAY
92	1	818.4	717.1	353.9	24.8	42.5	9.1	65.6	2,031.3	61,820	54,953	78,500	78.8%	63.6	NA	
92	2	757.4	663.6	327.5	22.9	39.3	8.5	60.7	1,879.8	62,040	54,560	78,500	79.0%	58.6	8	
92	3	716.4	627.7	309.8	21.7	37.2	8.0	57.4	1,778.2	62,207	53,757	78,500	79.2%	55.3	5	
92	4	771.0	675.5	333.4	23.4	40.0	8.6	61.8	1,913.7	62,483	54,502	78,500	79.6%	59.3	9	
92	5	824.5	722.4	356.5	25.0	42.8	9.2	66.1	2,046.3	62,713	56,795	78,500	79.9%	63.2	7	
92	6	796.3	697.6	344.3	24.1	41.3	8.9	63.8	1,976.3	62,793	56,550	78,500	80.0%	60.9	3	
92	7	779.4	692.9	337.0	23.6	40.4	8.7	62.5	1,934.5	62,869	56,867	78,500	80.1%	59.6	2	
92	8	812.5	711.9	351.3	24.6	42.2	9.1	65.1	2,016.7	63,078	57,192	78,500	80.4%	61.9	7	
92	9	766.8	671.8	331.5	23.2	39.8	8.6	61.5	1,903.2	63,364	56,265	78,500	80.7%	58.1	10	
92	10	813.5	712.8	351.7	24.6	42.2	9.1	65.2	2,019.1	63,646	58,255	78,500	81.1%	61.4	9	
92	11	826.4	725.8	358.2	25.1	43.0	9.3	66.4	2,056.2	63,688	58,351	78,500	81.1%	62.5	1	
92	12	813.3	712.5	351.6	24.6	42.2	9.1	65.2	2,018.5	63,895	55,985	78,500	81.4%	61.1	7	
93	1	869.0	761.4	375.7	26.3	45.1	9.7	69.7	2,156.9	64,011	57,707	78,500	81.5%	65.2	4	
93	2	752.0	658.9	325.1	22.8	39.0	8.4	60.3	1,866.4	64,114	51,055	78,500	81.7%	56.3	4	
93	3	701.0	614.2	303.1	21.2	36.4	7.8	56.2	1,740.0	63,197	NA	78,500	80.5%	53.3	30	
93	4	819.1	717.7	354.2	24.8	42.5	9.2	65.7	2,033.0	63,819	57,838	78,500	81.3%	61.7	21	
93	5	848.0	743.0	366.7	25.7	44.0	9.5	68.0	2,104.8	64,025	59,612	78,500	81.6%	63.8	7	
93	6	809.4	709.2	350.0	24.5	42.0	9.0	64.9	2,009.0	64,187	57,252	78,500	81.8%	60.8	5	
93	7	804.1	704.5	347.7	24.4	41.7	9.0	64.5	1,995.8	64,353	58,051	78,500	82.0%	60.0	5	
93	8	805.6	705.8	348.3	24.4	41.8	9.0	64.6	1,999.5	64,589	59,965	78,500	82.3%	59.9	8	
93	9	810.5	710.2	350.5	24.5	42.1	9.1	65.0	2,011.8	64,639	61,560	78,500	82.3%	60.2	2	
93	10	818.8	718.3	354.5	24.8	42.5	9.2	65.7	2,034.8	64,777	60,033	78,500	82.5%	60.8	4	
93	11	821.8	720.0	355.3	24.9	42.6	9.2	65.9	2,039.7	64,975	58,709	78,500	82.8%	60.8	7	
93	12	869.4	761.7	375.9	26.3	45.1	9.7	69.7	2,157.9	65,078	60,928	78,500	82.9%	64.2	3	
1993 Total:		9,729.8	8,524.7	4,206.8	294.6	504.7	108.7	760.0	24,149.4	23,369.4			1993 Avg:	60.5		
1992 Total:		9,497.9	8,321.5	4,106.5	287.6	492.7	106.1	761.4	23,573.8	22,812.3			1992 Avg:	60.5		
1991 Total:		9,562.4	8,421.4	3,579.1	274.0	419.7	110.4	629.8	22,367.0	22,366.9			1991 Avg:	58.3		
1990 Total:		8,315.8	7,514.0	4,222.7	236.6	561.4	99.0	570.1	20,949.5	20,949.5			1990 Avg:	59.8		
1989 Total:		7,590.8	6,030.9	3,374.9	113.1	601.9	75.6	90.0	17,787.2	17,787.2			1989 Avg:	58.8		
1988 Total:		5,069.9	2,553.0	1,259.1	82.9	257.0	0.0	0.0	9,221.9	9,260.0			1988 Avg:	54.6		

SOUTH END PERCENTAGE BREAKDOWN BY MATERIAL

YEAR	NEWS	MIX PAP	GLASS	ALUM	TIN	PET	CONT	TOTAL	
								w/cont	100%
1993 Avg:	40.3%	35.3%	17.4%	1.2%	2.1%	0.5%	3.2%	100%	100%
1992 Avg:	40.3%	35.3%	17.4%	1.2%	2.1%	0.5%	3.2%	100%	100%
1991 Avg:	41.4%	36.4%	15.5%	1.2%	1.8%	0.5%	3.3%	100%	100%
1990 Avg:	38.6%	34.9%	18.6%	1.1%	2.6%	0.5%	2.7%	100%	100%
1989 Avg:	42.5%	33.7%	18.9%	0.6%	3.4%	0.4%	0.5%	100%	100%
1988 Avg:	55.0%	27.7%	13.7%	0.9%	2.8%	0.0%	0.0%	100%	100%

CURBSIDE RECYCLING PROGRAM
NORTH END TONNAGE DATA

Yr	Mo	NEWS	MIX P/P	GLASS	ALUM	TIN	PET	CONT	TOTAL		SIGN UPS	SETS	ELIGIBLE	PERCENT SIGNUPS/		NORTH AVERAGE	
									w/cont	w/o cont				HOUSEHOLDS	HOUSEHOLDS	HOUSEHOLDS	HOUSEHOLDS
92	1	788.9	928.8	413.7	47.5	67.8	15.8	29.1	2,289.6	2,260.5	64,984	194,847	70,000	92.8%	92.8%	69.6	NA
92	2	574.9	674.2	500.4	42.7	68.7	11.8	31.6	1,904.3	1,872.7	65,149	159,294	70,000	93.1%	93.1%	57.5	6
92	3	618.6	731.3	517.9	44.4	71.4	33.3	43.1	2,059.9	2,016.9	65,229	175,249	70,000	93.2%	93.2%	61.8	3
92	4	648.7	760.7	564.8	48.2	77.6	13.3	34.4	2,147.5	2,113.2	65,433	185,800	70,000	93.5%	93.5%	64.6	7
92	5	647.6	759.4	563.7	48.1	77.4	13.3	34.7	2,144.3	2,109.5	65,613	182,953	70,000	93.7%	93.7%	64.3	6
92	6	669.7	785.4	582.9	49.7	80.1	13.7	41.4	2,222.9	2,181.6	65,763	194,161	70,000	93.9%	93.9%	66.3	5
92	7	659.9	773.8	574.4	49.0	78.9	13.5	41.4	2,190.9	2,149.5	65,938	190,468	70,000	94.2%	94.2%	65.2	6
92	8	593.4	695.9	516.5	44.1	70.9	12.2	37.8	1,970.8	1,932.9	66,088	176,313	70,000	94.4%	94.4%	58.5	5
92	9	652.0	764.6	567.5	48.4	77.9	13.4	43.1	2,166.9	2,123.8	66,278	191,428	70,000	94.7%	94.7%	64.1	6
92	10	654.5	787.5	569.6	48.6	78.2	13.4	40.9	2,172.7	2,131.9	66,328	186,034	70,000	94.8%	94.8%	64.3	2
92	11	665.8	780.8	579.5	49.5	79.8	13.7	49.0	2,217.9	2,168.9	66,418	184,273	70,000	94.9%	94.9%	65.3	3
92	12	740.9	868.8	644.9	55.0	88.8	15.2	71.8	2,485.2	2,413.4	68,598	205,429	70,000	95.1%	95.1%	72.5	6
93	1	647.7	759.5	563.7	48.1	77.4	13.3	49.2	2,158.9	2,109.7	66,723	185,527	70,000	95.3%	95.3%	63.2	4
93	2	583.4	684.1	507.8	43.3	69.7	12.0	35.4	1,935.7	1,900.3	66,823	173,917	70,000	95.5%	95.5%	56.9	4
93	3	714.9	838.3	622.2	53.1	85.5	14.7	62.9	2,391.6	2,328.7	68,873	209,200	70,000	95.5%	95.5%	69.6	2
93	4	699.2	819.9	608.6	51.9	83.6	14.4	59.1	2,336.7	2,277.6	68,948	202,062	70,000	95.6%	95.6%	68.0	3
93	5	702.6	823.9	611.5	52.2	84.0	14.4	66.4	2,355.1	2,288.7	68,998	198,403	70,000	95.7%	95.7%	68.3	2
93	6	729.2	855.1	634.7	54.2	87.2	15.0	72.0	2,447.3	2,375.3	67,048	205,450	70,000	95.8%	95.8%	70.9	2
93	7	682.3	800.1	593.8	50.7	81.8	14.0	70.8	2,293.1	2,222.4	67,123	199,145	70,000	95.9%	95.9%	66.2	2
93	8	691.0	810.3	601.5	51.3	82.8	14.2	42.2	2,293.1	2,250.9	67,263	198,465	70,000	96.1%	96.1%	66.9	5
93	9	694.1	814.0	604.2	51.6	83.0	14.2	49.7	2,310.7	2,261.0	67,438	199,531	70,000	96.3%	96.3%	67.1	6
93	10	668.5	801.0	581.8	49.7	79.9	13.7	41.0	2,235.7	2,194.6	67,628	190,779	70,000	96.6%	96.6%	64.9	6
93	11	725.5	850.8	631.5	53.9	88.7	14.9	45.3	2,408.5	2,363.2	67,808	191,419	70,000	96.8%	96.8%	69.7	6
93	12	661.8	1,058.8	749.9	64.0	103.0	17.7	63.4	2,916.4	2,853.0	67,988	219,259	70,000	97.1%	97.1%	63.9	6
1993 Total:		8,400.1	9,913.6	7,311.2	623.9	1,004.2	172.4	657.2	26,082.6	27,425.5						68.0	
1992 Total:		7,915.0	9,289.1	6,595.5	575.2	917.2	182.7	498.2	25,972.9	25,474.7						64.5	
1991 Total:		6,540.8	11,116.4	5,961.3	410.6	1,004.0	157.9	252.5	25,443.6	25,191.1						66.0	
1990 Total:		9,057.2	9,687.8	4,874.2	658.5	745.4	64.1	115.8	24,902.9	24,787.1						66.6	
1989 Total:		7,524.8	9,118.7	5,296.5	320.1	678.0	13.3	31.0	22,875.4	22,844.4						69.1	
1988 Total:		5,411.5	5,186.7	3,574.5	159.4	392.2	0.0	39.4	14,763.6	14,724.2						63.5	

NORTH END PERCENTAGE BREAKDOWN BY MATERIAL

YEAR	TOTAL						
	NEWS	MIX P/P	GLASS	ALUM	TIN	PET	CONT
1993 Avg:	29.9%	35.3%	26.0%	2.2%	3.6%	0.6%	2.3%
1992 Avg:	30.5%	35.8%	25.4%	2.2%	3.5%	0.7%	1.9%
1991 Avg:	25.4%	43.6%	23.7%	1.6%	4.0%	0.6%	1.0%
1990 Avg:	36.4%	39.0%	19.4%	1.4%	3.0%	0.3%	0.5%
1989 Avg:	32.7%	39.7%	23.0%	1.4%	3.0%	0.1%	0.1%
1988 Avg:	36.7%	35.1%	24.2%	1.0%	2.7%	0.0%	0.3%