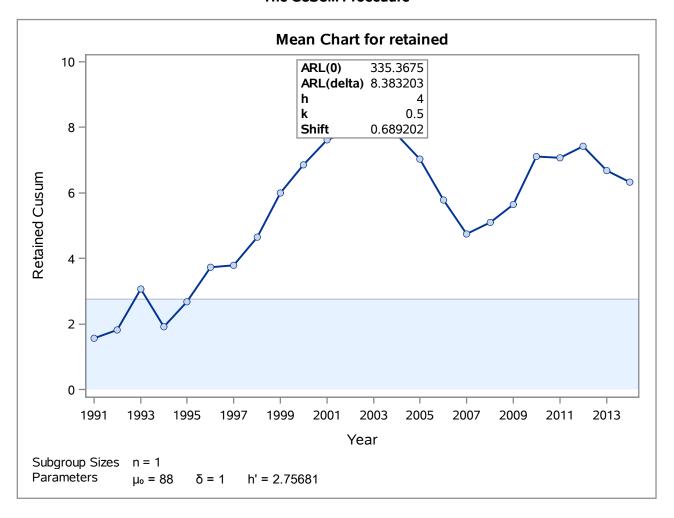


Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	Two-Sided			
Target Mean (Mu0)	88			
Standard Deviation	0.68920244			
Delta	1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Head Start	1.378			
Average Run Length (Delta)	6.4080988			
Average Run Length (0)	159.713602			

	Cumulative Sum Chart Summary for retained						
year	Subgroup Sample Size	Individual Value	V-Mask Lower Limit	Cusum	V-Mask Upper Limit	V-Mask Limit Exceeded	
1991	1	89.900000	3.9174	1.900000	25.2826	Lower	
1992	1	88.600000	4.2620	2.500000	24.9380	Lower	
1993	1	89.600000	4.6066	4.100000	24.5934	Lower	
1994	1	87.200000	4.9512	3.300000	24.2488	Lower	
1995	1	89.100000	5.2958	4.400000	23.9042	Lower	
1996	1	89.400000	5.6404	5.800000	23.5596		
1997	1	88.400000	5.9850	6.200000	23.2150		
1998	1	89.200000	6.3296	7.400000	22.8704		
1999	1	89.700000	6.6742	9.100000	22.5258		
2000	1	89.200000	7.0188	10.300000	22.1812		
2001	1	89.100000	7.3634	11.400000	21.8366		
2002	1	88.600000	7.7080	12.000000	21.4920		
2003	1	88.500000	8.0526	12.500000	21.1474		
2004	1	88.100000	8.3972	12.600000	20.8028		
2005	1	87.600000	8.7418	12.200000	20.4582		
2006	1	87.100000	9.0864	11.300000	20.1136		
2007	1	87.300000	9.4310	10.600000	19.7690		
2008	1	88.700000	9.7756	11.300000	19.4244		
2009	1	88.900000	10.1202	12.200000	19.0798		
2010	1	89.800000	10.4648	14.000000	18.7352		
2011	1	88.300000	10.8094	14.300000	18.3906		
2012	1	88.700000	11.1540	15.000000	18.0460		
2013	1	87.600000	11.4986	14.600000	17.7014		
2014	1	88.000000	11.8432	14.600000	17.3568		

UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)



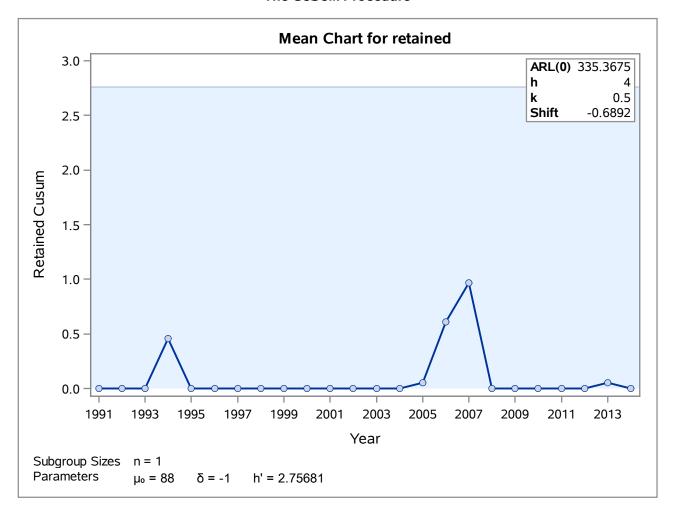
Wednesday, November 4, 2015 11:46:05 AM 5 UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	One-Sided			
Target Mean (Mu0)	88			
Standard Deviation	0.68920244			
Delta	1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Average Run Length (Delta)	8.38320257			
Average Run Length (0)	335.367498			

Wednesday, November 4, 2015 11:46:05 AM 6 UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

	Cumulative Sum Chart Summary for retained						
year	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded		
1991	1	89.900000	1.5553988	2.7568			
1992	1	88.600000	1.8107976	2.7568			
1993	1	89.600000	3.0661963	2.7568	Upper		
1994	1	87.200000	1.9215951	2.7568			
1995	1	89.100000	2.6769939	2.7568			
1996	1	89.400000	3.7323927	2.7568	Upper		
1997	1	88.400000	3.7877915	2.7568	Upper		
1998	1	89.200000	4.6431902	2.7568	Upper		
1999	1	89.700000	5.9985890	2.7568	Upper		
2000	1	89.200000	6.8539878	2.7568	Upper		
2001	1	89.100000	7.6093866	2.7568	Upper		
2002	1	88.600000	7.8647854	2.7568	Upper		
2003	1	88.500000	8.0201842	2.7568	Upper		
2004	1	88.100000	7.7755829	2.7568	Upper		
2005	1	87.600000	7.0309817	2.7568	Upper		
2006	1	87.100000	5.7863805	2.7568	Upper		
2007	1	87.300000	4.7417793	2.7568	Upper		
2008	1	88.700000	5.0971781	2.7568	Upper		
2009	1	88.900000	5.6525768	2.7568	Upper		
2010	1	89.800000	7.1079756	2.7568	Upper		
2011	1	88.300000	7.0633744	2.7568	Upper		
2012	1	88.700000	7.4187732	2.7568	Upper		
2013	1	87.600000	6.6741720	2.7568	Upper		
2014	1	88.000000	6.3295707	2.7568	Upper		

LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)



Wednesday, November 4, 2015 11:46:05 AM **8** LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

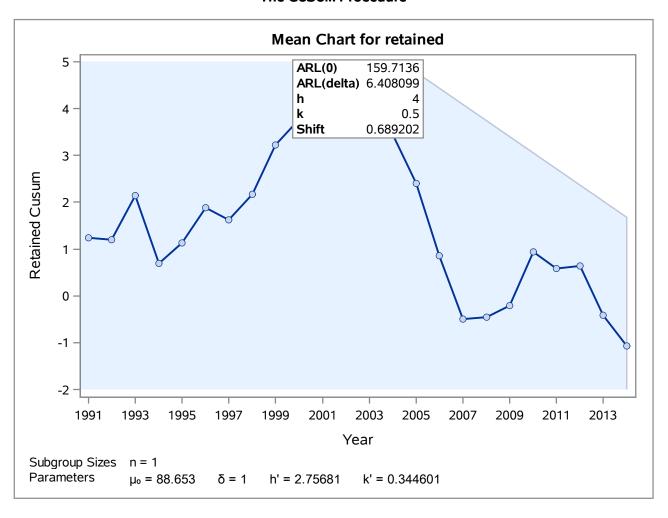
Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	One-Sided			
Target Mean (Mu0)	88			
Standard Deviation	0.68920244			
Delta	-1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Average Run Length (Delta)	973907.392			
Average Run Length (0)	335.367498			

Wednesday, November 4, 2015 11:46:05 AM 9 LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

	Cumulative Sum Chart Summary for retained						
year	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded		
1991	1	89.900000	0.00000000	2.7568			
1992	1	88.600000	0.00000000	2.7568			
1993	1	89.600000	0.00000000	2.7568			
1994	1	87.200000	0.45539878	2.7568			
1995	1	89.100000	0.00000000	2.7568			
1996	1	89.400000	0.00000000	2.7568			
1997	1	88.400000	0.00000000	2.7568			
1998	1	89.200000	0.00000000	2.7568			
1999	1	89.700000	0.00000000	2.7568			
2000	1	89.200000	0.00000000	2.7568			
2001	1	89.100000	0.00000000	2.7568			
2002	1	88.600000	0.00000000	2.7568			
2003	1	88.500000	0.00000000	2.7568			
2004	1	88.100000	0.00000000	2.7568			
2005	1	87.600000	0.05539878	2.7568			
2006	1	87.100000	0.61079756	2.7568			
2007	1	87.300000	0.96619634	2.7568			
2008	1	88.700000	0.00000000	2.7568			
2009	1	88.900000	0.00000000	2.7568			
2010	1	89.800000	0.00000000	2.7568			
2011	1	88.300000	0.00000000	2.7568			
2012	1	88.700000	0.00000000	2.7568			
2013	1	87.600000	0.05539878	2.7568			
2014	1	88.000000	0.00000000	2.7568			

Wednesday, November 4, 2015 11:46:05 AM 10 CUSUM with Reset after Signal (sigma unknown)

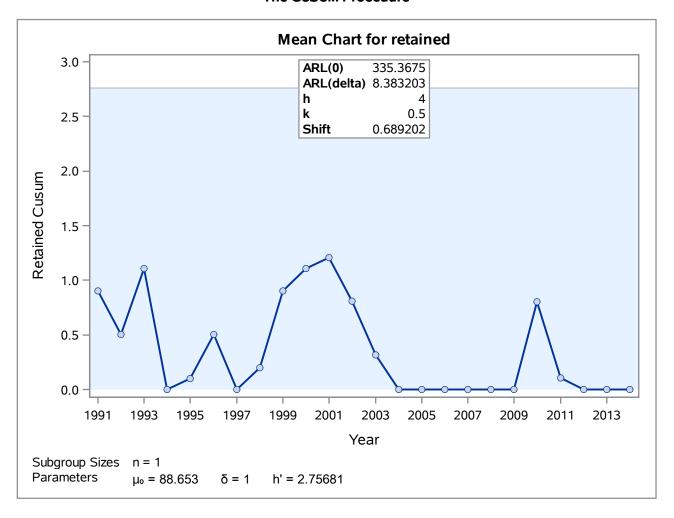
year	xbar	n	cusum_l	hsigma	cusum_h	flag
1991	89.9	1	0.0000	2.756	1.5555	
1992	88.6	1	0.0000	2.756	1.8110	
1993	89.6	1	0.0000	2.756	3.0665	upper
1994	87.2	1	0.4555	2.756	0.0000	
1995	89.1	1	0.0000	2.756	0.7555	
1996	89.4	1	0.0000	2.756	1.8110	
1997	88.4	1	0.0000	2.756	1.8665	
1998	89.2	1	0.0000	2.756	2.7220	
1999	89.7	1	0.0000	2.756	4.0775	upper
2000	89.2	1	0.0000	2.756	0.8555	
2001	89.1	1	0.0000	2.756	1.6110	
2002	88.6	1	0.0000	2.756	1.8665	
2003	88.5	1	0.0000	2.756	2.0220	
2004	88.1	1	0.0000	2.756	1.7775	
2005	87.6	1	0.0555	2.756	1.0330	
2006	87.1	1	0.6110	2.756	0.0000	
2007	87.3	1	0.9665	2.756	0.0000	
2008	88.7	1	0.0000	2.756	0.3555	
2009	88.9	1	0.0000	2.756	0.9110	
2010	89.8	1	0.0000	2.756	2.3665	
2011	88.3	1	0.0000	2.756	2.3220	
2012	88.7	1	0.0000	2.756	2.6775	
2013	87.6	1	0.0555	2.756	1.9330	
2014	88.0	1	0.0000	2.756	1.5885	



Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	Two-Sided			
Target Mean (Mu0)	88.653			
Standard Deviation	0.68920244			
Delta	1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Head Start	1.378			
Average Run Length (Delta)	6.4080988			
Average Run Length (0)	159.713602			

	Cumulative Sum Chart Summary for retained						
year	Subgroup Sample Size	Individual Value	V-Mask Lower Limit	Cusum	V-Mask Upper Limit	V-Mask Limit Exceeded	
1991	1	89.900000	-11.7546	1.2470000	9.6106		
1992	1	88.600000	-11.4100	1.1940000	9.2660		
1993	1	89.600000	-11.0654	2.1410000	8.9214		
1994	1	87.200000	-10.7208	0.6880000	8.5768		
1995	1	89.100000	-10.3762	1.1350000	8.2322		
1996	1	89.400000	-10.0316	1.8820000	7.8876		
1997	1	88.400000	-9.6870	1.6290000	7.5430		
1998	1	89.200000	-9.3424	2.1760000	7.1984		
1999	1	89.700000	-8.9978	3.2230000	6.8538		
2000	1	89.200000	-8.6532	3.7700000	6.5092		
2001	1	89.100000	-8.3086	4.2170000	6.1646		
2002	1	88.600000	-7.9640	4.1640000	5.8200		
2003	1	88.500000	-7.6194	4.0110000	5.4754		
2004	1	88.100000	-7.2748	3.4580000	5.1308		
2005	1	87.600000	-6.9302	2.4050000	4.7862		
2006	1	87.100000	-6.5856	0.8520000	4.4416		
2007	1	87.300000	-6.2410	-0.5010000	4.0970		
2008	1	88.700000	-5.8964	-0.4540000	3.7524		
2009	1	88.900000	-5.5518	-0.2070000	3.4078		
2010	1	89.800000	-5.2072	0.9400000	3.0632		
2011	1	88.300000	-4.8626	0.5870000	2.7186		
2012	1	88.700000	-4.5180	0.6340000	2.3740		
2013	1	87.600000	-4.1734	-0.4190000	2.0294		
2014	1	88.000000	-3.8288	-1.0720000	1.6848		

UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)



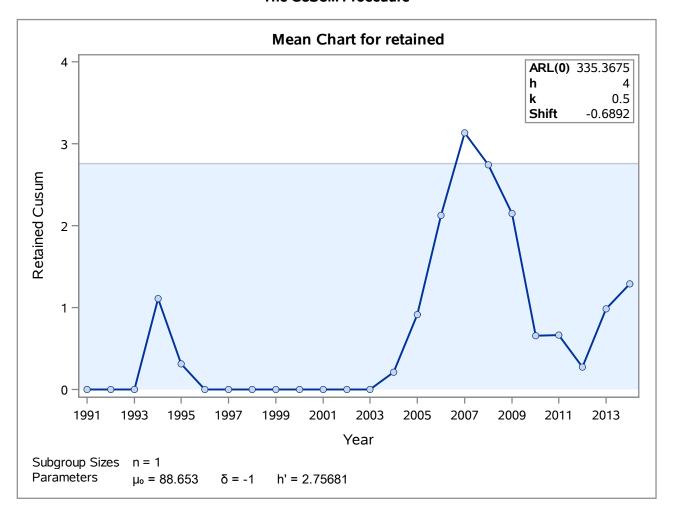
Wednesday, November 4, 2015 11:46:05 AM 15 UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	One-Sided			
Target Mean (Mu0)	88.653			
Standard Deviation	0.68920244			
Delta	1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Average Run Length (Delta)	8.38320257			
Average Run Length (0)	335.367498			

Wednesday, November 4, 2015 11:46:05 AM 16 UPPER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

	Cumulative Sum Chart Summary for retained						
year	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded		
1991	1	89.900000	0.9023988	2.7568			
1992	1	88.600000	0.5047976	2.7568			
1993	1	89.600000	1.1071963	2.7568			
1994	1	87.200000	0.0000000	2.7568			
1995	1	89.100000	0.1023988	2.7568			
1996	1	89.400000	0.5047976	2.7568			
1997	1	88.400000	0.0000000	2.7568			
1998	1	89.200000	0.2023988	2.7568			
1999	1	89.700000	0.9047976	2.7568			
2000	1	89.200000	1.1071963	2.7568			
2001	1	89.100000	1.2095951	2.7568			
2002	1	88.600000	0.8119939	2.7568			
2003	1	88.500000	0.3143927	2.7568			
2004	1	88.100000	0.0000000	2.7568			
2005	1	87.600000	0.0000000	2.7568			
2006	1	87.100000	0.0000000	2.7568			
2007	1	87.300000	0.0000000	2.7568			
2008	1	88.700000	0.0000000	2.7568			
2009	1	88.900000	0.0000000	2.7568			
2010	1	89.800000	0.8023988	2.7568			
2011	1	88.300000	0.1047976	2.7568			
2012	1	88.700000	0.0000000	2.7568			
2013	1	87.600000	0.0000000	2.7568			
2014	1	88.000000	0.0000000	2.7568			

LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)



Wednesday, November 4, 2015 11:46:05 AM 18 LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	One-Sided			
Target Mean (Mu0)	88.653			
Standard Deviation	0.68920244			
Delta	-1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.75680975			
k	0.5			
k' (Data Units)	0.34460122			
Average Run Length (Delta)	973907.392			
Average Run Length (0)	335.367498			

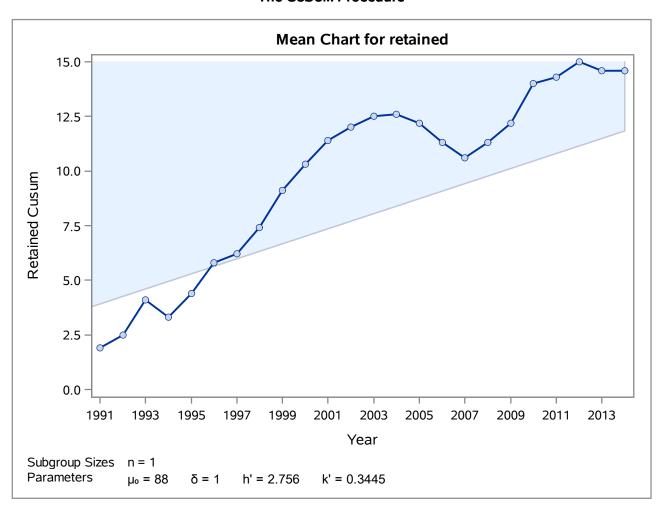
LOWER ONE-SIDED CUSUM for Retention Rate(sigma unknown)

	Cumulative Sum Chart Summary for retained								
year	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded				
1991	1	89.900000	0.0000000	2.7568					
1992	1	88.600000	0.0000000	2.7568					
1993	1	89.600000	0.0000000	2.7568					
1994	1	87.200000	1.1083988	2.7568					
1995	1	89.100000	0.3167976	2.7568					
1996	1	89.400000	0.0000000	2.7568					
1997	1	88.400000	0.0000000	2.7568					
1998	1	89.200000	0.0000000	2.7568					
1999	1	89.700000	0.0000000	2.7568					
2000	1	89.200000	0.0000000	2.7568					
2001	1	89.100000	0.0000000	2.7568					
2002	1	88.600000	0.0000000	2.7568					
2003	1	88.500000	0.0000000	2.7568					
2004	1	88.100000	0.2083988	2.7568					
2005	1	87.600000	0.9167976	2.7568					
2006	1	87.100000	2.1251963	2.7568					
2007	1	87.300000	3.1335951	2.7568	Upper				
2008	1	88.700000	2.7419939	2.7568					
2009	1	88.900000	2.1503927	2.7568					
2010	1	89.800000	0.6587915	2.7568					
2011	1	88.300000	0.6671902	2.7568					
2012	1	88.700000	0.2755890	2.7568					
2013	1	87.600000	0.9839878	2.7568					
2014	1	88.000000	1.2923866	2.7568					

Wednesday, November 4, 2015 11:46:05 AM **20** CUSUM with Reset after Signal (sigma unknown)

year	xbar	n	cusum_l	hsigma	cusum_h	flag
1991	89.9	1	0.0000	2.756	0.9025	
1992	88.6	1	0.0000	2.756	0.5050	
1993	89.6	1	0.0000	2.756	1.1075	
1994	87.2	1	1.1085	2.756	0.0000	
1995	89.1	1	0.3170	2.756	0.1025	
1996	89.4	1	0.0000	2.756	0.5050	
1997	88.4	1	0.0000	2.756	0.0000	
1998	89.2	1	0.0000	2.756	0.2025	
1999	89.7	1	0.0000	2.756	0.9050	
2000	89.2	1	0.0000	2.756	1.1075	
2001	89.1	1	0.0000	2.756	1.2100	
2002	88.6	1	0.0000	2.756	0.8125	
2003	88.5	1	0.0000	2.756	0.3150	
2004	88.1	1	0.2085	2.756	0.0000	
2005	87.6	1	0.9170	2.756	0.0000	
2006	87.1	1	2.1255	2.756	0.0000	
2007	87.3	1	3.1340	2.756	0.0000	lower
2008	88.7	1	0.0000	2.756	0.0000	
2009	88.9	1	0.0000	2.756	0.0000	
2010	89.8	1	0.0000	2.756	0.8025	
2011	88.3	1	0.0085	2.756	0.1050	
2012	88.7	1	0.0000	2.756	0.0000	
2013	87.6	1	0.7085	2.756	0.0000	
2014	88.0	1	1.0170	2.756	0.0000	

FIR CUSUM for Retention Rate

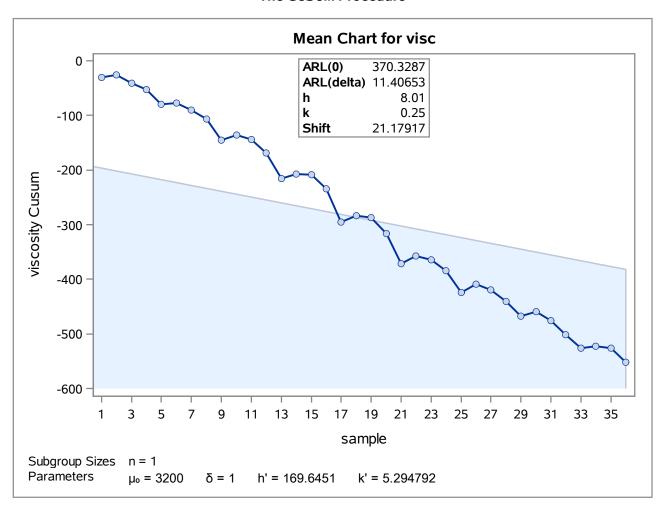


FIR CUSUM for Retention Rate

Cusum Parameters				
Process Variable	retained (Retained Cusum)			
Subgroup Variable	year (Year)			
Scheme	Two-Sided			
Target Mean (Mu0)	88			
Sigma0	0.689			
Delta	1			
Nominal Sample Size	1			
h	4			
h' (Data Units)	2.756			
k	0.5			
k' (Data Units)	0.3445			
Head Start	1.378			
Average Run Length (Delta)	6.4080988			
Average Run Length (0)	159.713602			

FIR CUSUM for Retention Rate

	Computational Cumulative Sum for retained							
year	Subgroup Sample Size	Individual Value	Lower Cusum	Number of Consecutive Lower Sums > 0	Upper Cusum	Number of Consecutive Upper Sums > 0		
1991	1	89.900000	0.00000000	0	2.5049420	1		
1992	1	88.600000	0.00000000	0	2.7604420	2		
1993	1	89.600000	0.00000000	0	4.0159420	3		
1994	1	87.200000	0.45550000	1	2.8714420	4		
1995	1	89.100000	0.00000000	0	3.6269420	5		
1996	1	89.400000	0.00000000	0	4.6824420	6		
1997	1	88.400000	0.00000000	0	4.7379420	7		
1998	1	89.200000	0.00000000	0	5.5934420	8		
1999	1	89.700000	0.00000000	0	6.9489420	9		
2000	1	89.200000	0.00000000	0	7.8044420	10		
2001	1	89.100000	0.00000000	0	8.5599420	11		
2002	1	88.600000	0.00000000	0	8.8154420	12		
2003	1	88.500000	0.00000000	0	8.9709420	13		
2004	1	88.100000	0.00000000	0	8.7264420	14		
2005	1	87.600000	0.05550000	1	7.9819420	15		
2006	1	87.100000	0.61100000	2	6.7374420	16		
2007	1	87.300000	0.96650000	3	5.6929420	17		
2008	1	88.700000	0.00000000	0	6.0484420	18		
2009	1	88.900000	0.00000000	0	6.6039420	19		
2010	1	89.800000	0.00000000	0	8.0594420	20		
2011	1	88.300000	0.00000000	0	8.0149420	21		
2012	1	88.700000	0.00000000	0	8.3704420	22		
2013	1	87.600000	0.05550000	1	7.6259420	23		
2014	1	88.000000	0.00000000	0	7.2814420	24		

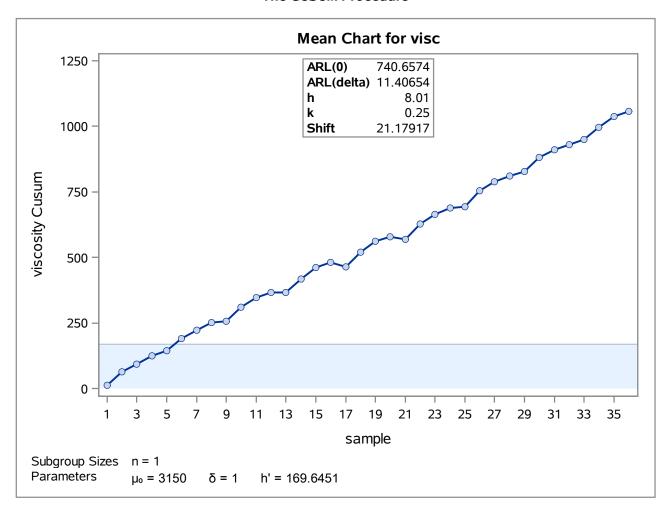


Cusum Parameters					
Process Variable	visc (viscosity Cusum)				
Subgroup Variable	sample (sample)				
Scheme	Two-Sided				
Target Mean (Mu0)	3200				
Standard Deviation	21.1791677				
Delta	1				
Nominal Sample Size	1				
h	8.01				
h' (Data Units)	169.645133				
k	0.25				
k' (Data Units)	5.29479192				
Average Run Length (Delta)	11.4065336				
Average Run Length (0)	370.328713				

Cumulative Sum Chart Summary for visc							
sample	Subgroup Sample Size	Individual Value	V-Mask Lower Limit	Cusum	V-Mask Upper Limit	V-Mask Limit Exceeded	
1	1	3169.0000	-906.9629	-31.00000	-197.0371	Upper	
2	1	3205.0000	-901.6681	-26.00000	-202.3319	Upper	
3	1	3185.0000	-896.3733	-41.00000	-207.6267	Upper	
4	1	3188.0000	-891.0785	-53.00000	-212.9215	Upper	
5	1	3173.0000	-885.7837	-80.00000	-218.2163	Upper	
6	1	3203.0000	-880.4889	-77.00000	-223.5111	Upper	
7	1	3187.0000	-875.1941	-90.00000	-228.8059	Upper	
8	1	3183.0000	-869.8993	-107.00000	-234.1007	Upper	
9	1	3162.0000	-864.6045	-145.00000	-239.3955	Upper	
10	1	3209.0000	-859.3097	-136.00000	-244.6903	Upper	
11	1	3192.0000	-854.0149	-144.00000	-249.9851	Upper	
12	1	3175.0000	-848.7201	-169.00000	-255.2799	Upper	
13	1	3154.0000	-843.4253	-215.00000	-260.5747	Upper	
14	1	3208.0000	-838.1306	-207.00000	-265.8694	Upper	
15	1	3199.0000	-832.8358	-208.00000	-271.1642	Upper	
16	1	3174.0000	-827.5410	-234.00000	-276.4590	Upper	
17	1	3139.0000	-822.2462	-295.00000	-281.7538		
18	1	3211.0000	-816.9514	-284.00000	-287.0486	Upper	
19	1	3197.0000	-811.6566	-287.00000	-292.3434	Upper	
20	1	3171.0000	-806.3618	-316.00000	-297.6382		
21	1	3145.0000	-801.0670	-371.00000	-302.9330		
22	1	3214.0000	-795.7722	-357.00000	-308.2278		
23	1	3193.0000	-790.4774	-364.00000	-313.5226		
24	1	3180.0000	-785.1826	-384.00000	-318.8174		
25	1	3160.0000	-779.8878	-424.00000	-324.1122		
26	1	3215.0000	-774.5931	-409.00000	-329.4069		
27	1	3190.0000	-769.2983	-419.00000	-334.7017		
28	1	3179.0000	-764.0035	-440.00000	-339.9965		
29	1	3172.0000	-758.7087	-468.00000	-345.2913		
30	1	3209.0000	-753.4139	-459.00000	-350.5861		
31	1	3183.0000	-748.1191	-476.00000	-355.8809		
32	1	3175.0000	-742.8243	-501.00000	-361.1757		
33	1	3175.0000	-737.5295	-526.00000	-366.4705		
34	1	3203.0000	-732.2347	-523.00000	-371.7653		

	Cumulative Sum Chart Summary for visc								
Sample Individual Lower Upper Lin					V-Mask Limit Exceeded				
35	1	3197.0000	-726.9399	-526.00000	-377.0601				
36	1	3174.0000	-721.6451	-552.00000	-382.3549				

UPPER ONE-SIDED CUSUM for viscosity (mu = 3150)(sigma unknown)



Wednesday, November 4, 2015 11:46:05 AM **29 UPPER ONE-SIDED CUSUM for viscosity (mu = 3150)(sigma unknown)**

Cusum Parameters					
Process Variable	visc (viscosity Cusum)				
Subgroup Variable	sample (sample)				
Scheme	One-Sided				
Target Mean (Mu0)	3150				
Standard Deviation	21.1791677				
Delta	1				
Nominal Sample Size	1				
h	8.01				
h' (Data Units)	169.645133				
k	0.25				
k' (Data Units)	5.29479192				
Average Run Length (Delta)	11.4065412				
Average Run Length (0)	740.657426				

Wednesday, November 4, 2015 11:46:05 AM **30** UPPER ONE-SIDED CUSUM for viscosity (mu = 3150)(sigma unknown)

Cumulative Sum Chart Summary for visc							
sample	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded		
1	1	3169.0000	13.7052	169.6451			
2	1	3205.0000	63.4104	169.6451			
3	1	3185.0000	93.1156	169.6451			
4	1	3188.0000	125.8208	169.6451			
5	1	3173.0000	143.5260	169.6451			
6	1	3203.0000	191.2312	169.6451	Upper		
7	1	3187.0000	222.9365	169.6451	Upper		
8	1	3183.0000	250.6417	169.6451	Upper		
9	1	3162.0000	257.3469	169.6451	Upper		
10	1	3209.0000	311.0521	169.6451	Upper		
11	1	3192.0000	347.7573	169.6451	Upper		
12	1	3175.0000	367.4625	169.6451	Upper		
13	1	3154.0000	366.1677	169.6451	Upper		
14	1	3208.0000	418.8729	169.6451	Upper		
15	1	3199.0000	462.5781	169.6451	Upper		
16	1	3174.0000	481.2833	169.6451	Upper		
17	1	3139.0000	464.9885	169.6451	Upper		
18	1	3211.0000	520.6937	169.6451	Upper		
19	1	3197.0000	562.3990	169.6451	Upper		
20	1	3171.0000	578.1042	169.6451	Upper		
21	1	3145.0000	567.8094	169.6451	Upper		
22	1	3214.0000	626.5146	169.6451	Upper		
23	1	3193.0000	664.2198	169.6451	Upper		
24	1	3180.0000	688.9250	169.6451	Upper		
25	1	3160.0000	693.6302	169.6451	Upper		
26	1	3215.0000	753.3354	169.6451	Upper		
27	1	3190.0000	788.0406	169.6451	Upper		
28	1	3179.0000	811.7458	169.6451	Upper		
29	1	3172.0000	828.4510	169.6451	Upper		
30	1	3209.0000	882.1562	169.6451	Upper		
31	1	3183.0000	909.8615	169.6451	Upper		
32	1	3175.0000	929.5667	169.6451	Upper		
33	1	3175.0000	949.2719	169.6451	Upper		
34	1	3203.0000	996.9771	169.6451	Upper		

Wednesday, November 4, 2015 11:46:05 AM **31** UPPER ONE-SIDED CUSUM for viscosity (mu = **3150**)(sigma unknown)

Cumulative Sum Chart Summary for visc								
sample	Subgroup Sample Size	Individual Value	Cusum	Decision Interval	Decision Interval Exceeded			
35	1	3197.0000	1038.6823	169.6451	Upper			
36	1	3174.0000	1057.3875	169.6451	Upper			