

ARL Table for scale parameter decrease from the in-control state

Table 1: ARL of σ decrease from in-control state in $LN(0, 1)$

σ	μ_X	$n = 5$				$n = 10$				$n = 20$			
		\bar{X} chart		\tilde{X} chart		\bar{X} chart		\tilde{X} chart		\bar{X} chart		\tilde{X} chart	
		ARL^-	ARL	ARL^-	ARL	ARL^-	ARL	ARL^-	ARL	ARL^-	ARL	ARL^-	ARL
1.0	1.65	202.20	98.89	198.78	101.11	200.65	99.70	198.87	100.36	193.88	98.83	199.33	99.61
0.9	1.50	345.51	228.51	678.99	218.24	261.56	210.55	981.46	200.33	184.48	164.80	1564.11	159.70
0.8	1.38	711.97	610.49	2837.89	489.00	399.70	380.76	7898.24	343.30	186.28	183.97	27042.76	171.74