

Acceptance Sampling

Sampling plan to achieve Producer's Risk =  $\alpha$ , Consumer's Risk =  $\beta$ , acceptable quality level =  $p_1$ , unacceptable quality level =  $p_2$ .

$\alpha = 0.1, \beta = 0.1$

$n$  = sample size,  $c$  = max. no. defectives in sample

$p_2$	0.005		0.010		0.015		0.020		$p_1$		0.030		0.035		0.040		0.045		0.050		
	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	
0.010	2010	14	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.015	617	5	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.020	333	3	945	13	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.025	212	2	518	8	1310	25	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.030	176	2	308	5	629	13	1609	39	*	*	*	*	*	*	*	*	*	*	*	*	*
0.035	151	2	227	4	404	9	770	20	1909	56	*	*	*	*	*	*	*	*	*	*	*
0.040	96	1	166	3	292	7	471	13	926	29	2235	77	*	*	*	*	*	*	*	*	*
0.045	85	1	147	3	204	5	340	10	547	18	1047	38	2531	100	*	*	*	*	*	*	*
0.050	77	1	105	2	158	4	258	8	377	13	628	24	1204	50	2828	126	*	*	*	*	*
0.055	70	1	96	2	144	4	190	6	278	10	426	17	713	31	1331	62	*	*	*	*	*
0.060	64	1	88	2	110	3	153	5	215	8	313	13	485	22	782	38	1452	75	*	*	*
0.065	59	1	81	2	101	3	121	4	179	7	235	10	343	16	517	26	857	46	1586	90	*
0.070	55	1	75	2	94	3	113	4	149	6	201	9	268	13	383	20	575	32	935	55	*
0.075	51	1	51	1	70	2	105	4	122	5	155	7	219	11	297	16	418	24	610	37	*
0.080	48	1	48	1	65	2	82	3	98	4	130	6	175	9	234	13	321	19	447	28	*
0.085	45	1	45	1	61	2	77	3	93	4	122	6	151	8	193	11	248	15	342	22	*
0.090	42	1	42	1	58	2	73	3	87	4	101	5	129	7	156	9	208	13	272	18	*
0.095	40	1	40	1	55	2	55	2	69	3	96	5	109	6	135	8	172	11	221	15	*
0.100	38	1	38	1	52	2	52	2	65	3	78	4	104	6	116	7	152	10	187	13	*

Acceptance Sampling

Sampling plan to achieve Producer's Risk =  $\alpha$ , Consumer's Risk =  $\beta$ , acceptable quality level =  $p_1$ , unacceptable quality level =  $p_2$ .

$\alpha = 0.05, \beta = 0.05$

$n$  = sample size,  $c$  = max. no. defectives in sample

$p_2$	$p_1$																					
	0.005		0.010		0.015		0.020		0.025		0.030		0.035		0.040		0.045		0.050			
$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	$n$	$c$	
0.010	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.015	1044	9	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.020	523	5	1642	23	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.025	364	4	823	13	2090	40	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.030	257	3	521	9	1093	23	2630	64	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.035	220	3	373	7	656	15	1297	34	*	*	*	*	*	*	*	*	*	*	*	*	*	*
0.040	156	2	261	5	452	11	781	22	1500	47	*	*	*	*	*	*	*	*	*	*	*	*
0.045	138	2	231	5	346	9	536	16	899	30	1726	63	*	*	*	*	*	*	*	*	*	*
0.050	124	2	181	4	260	7	386	12	624	22	1042	40	1947	81	*	*	*	*	*	*	*	*
0.055	113	2	164	4	213	6	305	10	460	17	693	28	1170	51	2183	102	*	*	*	*	*	*
0.060	103	2	127	3	173	5	259	9	361	14	519	22	787	36	1293	63	2394	124	*	*	*	*
0.065	95	2	117	3	159	5	200	7	277	11	388	17	568	27	864	44	1412	76	2603	148	*	*
0.070	66	1	109	3	129	4	185	4	239	10	309	14	428	21	625	33	930	52	1528	90	*	*
0.075	62	1	82	2	120	4	155	4	206	9	256	12	352	18	476	26	674	39	1018	62	*	*
0.080	58	1	77	2	112	4	129	5	178	8	224	11	285	15	374	21	518	31	729	46	*	*
0.085	54	1	72	2	89	3	121	5	152	7	182	9	240	13	310	18	406	25	554	36	*	*
0.090	51	1	68	2	84	3	115	5	129	6	158	8	199	11	253	15	332	21	434	29	*	*
0.095	49	1	65	2	80	3	94	4	122	6	149	8	175	10	227	14	277	18	351	24	*	*
0.100	46	1	61	2	76	3	89	4	103	5	129	7	154	9	191	12	239	16	298	21	*	*