

5-1 Calculation Procedure of Completed Calls by the Model (11/18)

Successful Call Ratio	59.95%	Another New Call generated by First Completed Call						10%	1995									
The 5th Effect	1	2	3	4	5	6	7	8	9	10								
Times	1	2	3	4	5	6	7	8	9	10								
Offered Calls (Original)	199,361	71,866	23,028	6,457	1,552	311	50	6	0	0	199,361	3,198,404,016						
Offered Calls (Re-try)		43,081	13,804	3,870	930	186	30	4	0	0	103,270	1,656,780,896						
Successful Calls	119,510	28,785	9,224	2,586	621	124	20	2	0	0	181,416	2,910,305,217						
Unsuccessful Calls	79,852	20%	30%	40%	50%	60%	70%	80%	90%	100%	121,215	1,944,679,694						
Abandoned Call Ratio	10%																	
Abandoned Calls	7,985	5,757	2,767	1,034	311	75	14	2	0	0	17,945	287,898,799						
Intended Re-try Calls	71,866	23,028	6,457	1,552	311	50	6	0	0	0	103,270	1,656,780,896						
The 6th Effect																		
Times	1	2	3	4	5	6	7	8	9	10								
Offered Calls (Original)	18,142	6,540	2,096	588	141	28	5	1	0	0	18,142	3,198,422,158						
Offered Calls (Re-try)		3,920	1,256	352	85	17	3	0	0	0	9,397	1,656,790,293						
Successful Calls	10,875	2,619	839	235	57	11	2	0	0	0	16,509	2,910,521,726						
Unsuccessful Calls	7,266	20%	30%	40%	50%	60%	70%	80%	90%	100%	11,030	1,944,690,725						
Abandoned Call Ratio	10%																	
Abandoned Calls	727	524	252	94	28	7	1	0	0	0	1,633	287,900,432						
Intended Re-try Calls	6,540	2,096	588	141	28	5	1	0	0	0	9,397	1,656,790,293						
The 7th Effect																		
Times	1	2	3	4	5	6	7	8	9	10								
Offered Calls (Original)	1,651	595	191	53	13	3	0	0	0	0	1,651	3,198,423,809						
Offered Calls (Re-try)		357	114	32	8	2	0	0	0	0	855	1,656,791,148						
Successful Calls	990	238	76	21	5	1	0	0	0	0	1,502	2,910,523,228						
Unsuccessful Calls	661	20%	30%	40%	50%	60%	70%	80%	90%	100%	1,004	1,944,691,728						
Abandoned Call Ratio	10%																	
Abandoned Calls	66	48	23	9	3	1	0	0	0	0	149	287,900,580						
Intended Re-try Calls	595	191	53	13	3	0	0	0	0	0	855	1,656,791,148						
The 8th Effect																		
Times	1	2	3	4	5	6	7	8	9	10								
Offered Calls (Original)	150	54	17	5	1	0	0	0	0	0	150	3,198,423,959						
Offered Calls (Re-try)		32	10	3	1	0	0	0	0	0	78	1,656,791,226						
Successful Calls	90	22	7	2	0	0	0	0	0	0	137	2,910,523,365						
Unsuccessful Calls	60	20%	30%	40%	50%	60%	70%	80%	90%	100%	91	1,944,691,820						
Abandoned Call Ratio	10%																	
Abandoned Calls	6	4	2	1	0	0	0	0	0	0	14	287,900,594						
Intended Re-try Calls	54	17	5	1	0	0	0	0	0	0	78	1,656,791,226						

5-1 Calculation Procedure of Completed Calls by the Model (12/18)

Successful Call Ratio	59.95%	10%	10%	10%	10%	10%	10%	10%	10%	1995
The 9th Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	14									14
Offered Calls (Re-try)		5	2	0	0	0	0	0	0	0
Successful Calls	8	3	1	0	0	0	0	0	0	7
Unsuccessful Calls	5	2	1	0	0	0	0	0	0	12
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Calls	1	0	0	0	0	0	0	0	0	0
Intended Re-try Calls	5	2	0	0	0	0	0	0	0	1
										287,900,595
The 10th Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	1									1
Offered Calls (Re-try)		0	0	0	0	0	0	0	0	0
Successful Calls	1	0	0	0	0	0	0	0	0	1
Unsuccessful Calls	0	0	0	0	0	0	0	0	0	0
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Calls	0	0	0	0	0	0	0	0	0	0
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	0
										287,900,595
										1,656,791,234

5-1 Calculation Procedure of Completed Calls by the Model (13/18)

Successful Call Ratio	67.62%	Another New Call generated by First Completed Call						10%	Total	1996 Cumulative
The 1st Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	2,907,371,636	847,214,563	219,449,074	49,737,293	9,662,372	1,564,243	202,588	19,678	1,274	41
Offered Calls (Re-try)		572,903,220	148,395,798	33,633,340	6,533,887	1,057,772	136,994	13,307	862	28
Successful Calls	1,966,022,121	274,311,243	71,052,276	16,103,953	3,128,485	506,471	65,594	6,371	413	13
Unsuccessful Calls	941,349,515	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Call Ratio	10%									
Abandond Calls	94,134,951	54,862,269	21,315,983	6,441,581	1,564,243	303,883	45,916	5,097	371	13
Intended Re-try Calls	847,214,563	219,449,074	49,737,293	9,662,372	1,564,243	202,588	19,678	1,274	41	0
The 2nd Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	272,869,733	79,514,847	20,596,270	4,668,066	906,856	146,811	19,014	1,847	120	4
Offered Calls (Re-try)		53,769,510	13,927,604	3,156,638	613,234	99,277	12,858	1,249	81	3
Successful Calls	184,519,903	25,745,337	6,668,665	1,511,427	293,622	47,535	6,156	598	39	1
Unsuccessful Calls	88,349,830	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Call Ratio	10%									
Abandond Calls	8,834,983	5,149,067	2,000,600	604,571	146,811	28,521	4,309	478	35	1
Intended Re-try Calls	79,514,847	20,596,270	4,668,066	906,856	146,811	19,014	1,847	120	4	0
The 3rd Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	25,610,036	7,462,821	1,933,051	438,119	85,113	13,779	1,785	173	11	0
Offered Calls (Re-try)		5,046,507	1,307,167	296,265	57,555	9,318	1,207	117	8	0
Successful Calls	17,318,012	2,416,314	625,884	141,854	27,558	4,461	578	56	4	0
Unsuccessful Calls	8,292,024	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Call Ratio	10%									
Abandond Calls	829,202	483,263	187,765	56,742	13,779	2,677	404	45	3	0
Intended Re-try Calls	7,462,821	1,933,051	438,119	85,113	13,779	1,785	173	11	0	0
The 4th Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	2,403,616	700,419	181,425	41,119	7,988	1,293	167	16	1	0
Offered Calls (Re-try)		473,637	122,683	27,806	5,402	874	113	11	1	0
Successful Calls	1,625,972	778,243	226,782	58,742	13,314	2,586	419	54	5	0
Unsuccessful Calls	778,243	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Call Ratio	10%									
Abandond Calls	77,824	45,356	17,623	5,325	1,293	251	38	4	0	0
Intended Re-try Calls	700,419	181,425	41,119	7,988	1,293	167	16	1	0	0

5-1 Calculation Procedure of Completed Calls by the Model (14/18)

Successful Call Ratio	67.62%	Another New Call generated by First Completed Call										10%	1996
The 5th Effect		2	3	4	5	6	7	8	9	10			
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	225,590	65,737	17,028	3,859	750	121	16	2	0	0	225,590	3,208,480,610	
Offered Calls (Re-try)		44,453	11,514	2,610	507	82	11	1	0	0	87,513	1,244,659,757	
Successful Calls	152,548	21,284	5,513	1,250	243	39	5	0	0	0	211,726	3,011,301,466	
Unsuccessful Calls	73,042	20%	30%	40%	50%	60%	70%	80%	90%	100%	101,376	1,441,838,900	
Abandoned Call Ratio	10%												
Abandoned Calls	7,304	4,257	1,654	500	121	24	4	0	0	0	13,864	197,179,144	
Intended Re-try Calls	65,737	17,028	3,859	750	121	16	2	0	0	0	87,513	1,244,659,757	
The 6th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	21,173	6,170	1,598	362	70	11	1	0	0	0	21,173	3,208,501,783	
Offered Calls (Re-try)		4,172	1,081	245	48	8	1	0	0	0	8,213	1,244,667,970	
Successful Calls	14,317	1,998	517	117	23	4	0	0	0	0	19,871	3,011,321,338	
Unsuccessful Calls	6,855	20%	30%	40%	50%	60%	70%	80%	90%	100%	9,515	1,441,848,415	
Abandoned Call Ratio	10%												
Abandoned Calls	686	400	155	47	11	2	0	0	0	0	1,301	197,180,445	
Intended Re-try Calls	6,170	1,598	362	70	11	1	0	0	0	0	8,213	1,244,667,970	
The 7th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	1,987	579	150	34	7	1	0	0	0	0	1,987	3,208,503,770	
Offered Calls (Re-try)		392	101	23	4	1	0	0	0	0	771	1,244,668,741	
Successful Calls	1,344	187	49	11	2	0	0	0	0	0	1,865	3,011,323,203	
Unsuccessful Calls	643	20%	30%	40%	50%	60%	70%	80%	90%	100%	893	1,441,849,308	
Abandoned Call Ratio	10%												
Abandoned Calls	64	37	15	4	1	0	0	0	0	0	122	197,180,567	
Intended Re-try Calls	579	150	34	7	1	0	0	0	0	0	771	1,244,668,741	
The 8th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	187	54	14	3	1	0	0	0	0	0	187	3,208,503,956	
Offered Calls (Re-try)		37	10	2	0	0	0	0	0	0	72	1,244,668,813	
Successful Calls	126	18	5	1	0	0	0	0	0	0	175	3,011,323,378	
Unsuccessful Calls	60	20%	30%	40%	50%	60%	70%	80%	90%	100%	84	1,441,849,392	
Abandoned Call Ratio	10%												
Abandoned Calls	6	4	1	0	0	0	0	0	0	0	11	197,180,578	
Intended Re-try Calls	54	14	3	1	0	0	0	0	0	0	72	1,244,668,813	

5-1 Calculation Procedure of Completed Calls by the Model (15/18)

Successful Call Ratio	67.62%	Another New Call generated by First Completed Call	10%	10%	10%	10%	10%	10%	10%	1996
The 8th Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	18									18
Offered Calls (Re-try)		5	1	0	0	0	0	0	0	7
Successful Calls	12	3	1	0	0	0	0	0	0	16
Unsuccessful Calls	6	2	0	0	0	0	0	0	0	8
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Calls	1	0	0	0	0	0	0	0	0	1
Intended Re-try Calls	5	1	0	0	0	0	0	0	0	7
The 10th Effect										
Times	1	2	3	4	5	6	7	8	9	10
Offered Calls (Original)	2									2
Offered Calls (Re-try)		0	0	0	0	0	0	0	0	1
Successful Calls	1	0	0	0	0	0	0	0	0	2
Unsuccessful Calls	1	0	0	0	0	0	0	0	0	1
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%
Abandoned Calls	0	0	0	0	0	0	0	0	0	0
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	1
										1,244,668,821

5-1 Calculation Procedure of Completed Calls by the Model (16/18)

Successful Call Ratio	75.30%	Another New Call generated by First Completed Call						10%	Total	1997	
The 1st Effect										Cumulative	
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	2,907,371,636	646,371,016	127,735,224	22,087,549	3,273,690	404,340	39,953	2,961	146	4	2,907,371,636
Offered Calls (Re-try)		486,701,985	96,181,583	16,631,399	2,465,011	304,458	30,083	2,229	110	3	799,914,883
Successful Calls	2,189,181,619	159,669,031	31,553,642	5,456,151	808,679	99,882	9,869	731	36	1	2,791,498,480
Unsuccessful Calls	718,190,017										915,788,039
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	0
Abandoned Calls	71,819,002	31,933,806	9,466,993	2,182,460	404,340	59,929	6,908	585	33	1	115,873,156
Intended Re-try Calls	646,371,016	127,735,224	22,087,549	3,273,690	404,340	39,953	2,961	146	4	0	799,914,883
The 2nd Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	279,149,848										279,149,848
Offered Calls (Re-try)		62,060,993	12,264,434	2,120,725	314,322	38,822	3,836	284	14	0	76,803,431
Successful Calls	210,193,189	46,730,450	9,234,827	1,596,856	236,677	29,232	2,888	214	11	0	268,024,344
Unsuccessful Calls	68,956,659	15,330,543	3,029,607	523,870	77,645	9,590	948	70	3	0	87,928,935
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	0
Abandoned Calls	6,895,666	3,066,109	908,882	209,548	38,822	5,754	663	56	3	0	11,125,504
Intended Re-try Calls	62,060,993	12,264,434	2,120,725	314,322	38,822	3,836	284	14	0	0	76,803,431
The 3rd Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	26,802,434										26,802,434
Offered Calls (Re-try)		5,958,756	1,177,564	203,620	30,179	3,728	368	27	1	0	7,374,243
Successful Calls	20,181,595	4,486,801	886,677	153,321	22,724	2,807	277	21	1	0	25,734,225
Unsuccessful Calls	6,620,839	1,471,954	290,886	50,299	7,455	921	91	7	0	0	8,442,453
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	0
Abandoned Calls	662,084	294,391	87,266	20,120	3,728	552	64	5	0	0	1,068,210
Intended Re-try Calls	5,958,756	1,177,564	203,620	30,179	3,728	368	27	1	0	0	7,374,243
The 4th Effect											
Times	1	2	3	4	5	6	7	8	9	10	
Offered Calls (Original)	2,573,422										2,573,422
Offered Calls (Re-try)		572,127	113,063	19,551	2,898	358	35	3	0	0	708,034
Successful Calls	1,937,726	430,798	85,134	14,721	2,182	269	27	2	0	0	2,470,859
Unsuccessful Calls	635,697	141,329	27,929	4,829	716	88	9	1	0	0	810,598
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%	0
Abandoned Calls	63,570	28,266	8,379	1,932	358	53	6	1	0	0	102,564
Intended Re-try Calls	572,127	113,063	19,551	2,898	358	35	3	0	0	0	708,034

5-1 Calculation Procedure of Completed Calls by the Model (17/18)

Successful Call Ratio	75-30%	Another New Call generated by First Completed Call	10%	8	9	10	1997
The 5th Effect							
Times	1	2	3	4	5	6	7
Offered Calls (Original)	247,086						
Offered Calls (Re-try)	54,932	1,877	278	34	3	0	0
Successful Calls	186,050	41,363	8,174	1,413	209	26	3
Unsuccessful Calls	61,036	13,570	2,682	464	69	8	1
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%
Abandoned Calls	6,104	2,714	804	185	34	5	1
Intended Re-try Calls	54,932	10,856	1,877	278	34	3	0
The 6th Effect							
Times	1	2	3	4	5	6	7
Offered Calls (Original)	23,724						
Offered Calls (Re-try)	5,274	1,042	180	27	3	0	0
Successful Calls	17,863	3,971	785	136	20	2	0
Unsuccessful Calls	5,860	1,303	257	45	7	1	0
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%
Abandoned Calls	586	261	77	18	3	0	0
Intended Re-try Calls	5,274	1,042	180	27	3	0	0
The 7th Effect							
Times	1	2	3	4	5	6	7
Offered Calls (Original)	2,278						
Offered Calls (Re-try)	506	100	17	3	0	0	0
Successful Calls	1,715	381	75	13	2	0	0
Unsuccessful Calls	563	125	25	4	1	0	0
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%
Abandoned Calls	56	25	7	2	0	0	0
Intended Re-try Calls	506	100	17	3	0	0	0
The 8th Effect							
Times	1	2	3	4	5	6	7
Offered Calls (Original)	219						
Offered Calls (Re-try)	49	10	2	0	0	0	0
Successful Calls	165	37	7	1	0	0	0
Unsuccessful Calls	54	12	2	0	0	0	0
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%
Abandoned Calls	5	2	1	0	0	0	0
Intended Re-try Calls	49	10	2	0	0	0	0

5-1 Calculation Procedure of Completed Calls by the Model (18/18)

Successful Call Ratio	75.30%	Another New Call generated by First Completed Call										10%	1997
		1	2	3	4	5	6	7	8	9	10		
The 9th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	21										21	3,216,170,668	
Offered Calls (Re-try)		5	1	0	0	0	0	0	0	0	0	6	884,875,793
Successful Calls	16	4	1	0	0	0	0	0	0	0	0	20	3,087,990,341
Unsuccessful Calls	5	1	0	0	0	0	0	0	0	0	0	7	1,013,056,120
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0
Abandoned Calls	1	0	0	0	0	0	0	0	0	0	0	1	128,180,327
Intended Re-try Calls	5	1	0	0	0	0	0	0	0	0	0	6	884,875,793
The 10th Effect													
Times	1	2	3	4	5	6	7	8	9	10			
Offered Calls (Original)	2										2	3,216,170,670	
Offered Calls (Re-try)		0	0	0	0	0	0	0	0	0	0	1	884,875,794
Successful Calls	2	0	0	0	0	0	0	0	0	0	0	2	3,087,990,343
Unsuccessful Calls	0	0	0	0	0	0	0	0	0	0	0	1	1,013,056,121
Abandoned Call Ratio	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%			0
Abandoned Calls	0	0	0	0	0	0	0	0	0	0	0	0	128,180,327
Intended Re-try Calls	0	0	0	0	0	0	0	0	0	0	0	1	884,875,794

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