

Adstock Rate - Deriving with Analytical Method

Instructions

1. Insert Sales and Advertising
2. Open Solver by going to the Data menu and selecting Solver
If Solver isn't available then load the Add-in.
3. Click Solve

		Advertising Before Adstock	Advertising After Adstock	Model Results After Adstock	
	Sales				
1	670,871	0.664	0.664	Adstock Rate	48.25%
2	35,524,494	1.163	1.483	α	54465408.7
3	50,173,057	1.163	1.878	β	6364013.5678
4	46,849,336	1.163	2.069	SSE	#####
5	39,246,118	1.080	2.078	Correlation	0.3939
6	21,362	0.581	1.584	R-Squared	0.1551
7	8,831	0.581	1.346		
8	17,987	0.581	1.231		
9	72,788	0.581	1.175		
10	70,691,096	1.196	1.763		
11	98,352,774	1.442	2.292		
12	96,408,086	1.442	2.548		
13	97,663,276	1.442	2.671		
14	72,524,082	4.003	5.292		
15	44,150,510	7.419	9.972		
16	293,596,202	7.419	12.230		
17	52,892,091	7.419	13.319		
18	91,911,501	7.419	13.845		
19	93,892,473	1.209	7.889		
20	120,030,002	1.209	5.015		
21	50,012,648	1.209	3.629		
22	47,577,866	1.209	2.960		
23	66,395,702	2.206	3.634		
24	108,721,179	2.605	4.358		
25	69,263,878	2.605	4.707		
26	154,607,585	2.605	4.876		
27	71,141,134	2.140	4.492		
28	69,654,386	0.977	3.144		
29	62,962,474	0.977	2.494		
30	147,178,533	0.977	2.180		
31	73,797,654	0.977	2.028		
32	76,441,432	1.116	2.095		
33	69,958,251	1.140	2.150		
34	84,762,834	1.140	2.177		
35	89,314,294	1.140	2.190		
36	73,083,886	1.189	2.246		

37	148,786,415	1.209	2.293
38	77,341,625	1.209	2.316
39	70,677,953	1.209	2.326
40	73,150,392	1.143	2.265
41	81,245,287	0.977	2.070
42	69,788,971	0.977	1.975
43	52,650,999	0.977	1.930
44	114,397,752	0.977	1.908
45	74,672,993	1.605	2.525
46	76,415,745	1.605	2.823
47	78,010,767	1.605	2.967
48	150,047,690	1.605	3.036
49	67,177,030	1.179	2.644
50	68,384,498	0.860	2.136
51	70,872,725	0.860	1.891
52	75,167,242	0.860	1.773
53	<u>51,431,436</u>	<u>0.615</u>	1.470