

# Flight Results for Rocket Rally 2013

	<u>Flight #1</u>	<u>Flight #2</u>	<u>Flight #3</u>	<u>Flight #4</u>	<u>Flight #5</u>
Owners	Mr D	Mr D	Thomas, Joel, Jeremy	Mr D	Beth Fish & Megan Brinks
Rocket Name	Milk Duds	Iowa State	Click Clack	Iowa State	Starbucks
Rocket Type	Sumo	Arcas	G-Force	Arcas	Astrobee
Rocket Mass	1062 g	593 g	1051 g	593 g	821 g
Motor Used	G76-4G	G77R-M	G64-4W	G138T-12	G75-7M
Estimated Cd	0.36	0.55	0.53	0.53	0.7
Estimated Altitude	800 ft	1475 ft	825 ft	2350 ft	1268 ft
Apogee Altitude	883 ft	1476 ft	1032 ft	2382 ft	1279 ft
Top Speed	139 mph	246 mph	126 mph	463 mph	205 mph
Burn Time      burn	1.4 s	1.3 s	1.7 s	1.1 s	1.4 s
Peak Acceleration    PAcc	12.4	11.5	8.2	21	10.4
Avg Accerleration    AAcc	4.6	8.4	3.4	19	6.7
Coast to Apogee      C2AP	4.5 s	8.6 s	4.1 s	10.3 s	7.5 s
Apogee to Eject      AP2E	-0.3 s	-	-0.1 s	2.6 s	0.8 s
Ejection Altitude    EAlt	798 ft	1471 ft	718 ft	2289 ft	1271 ft
Descent Speed        dESc	10 mph	11 mph	10 mph	13 mph	11 mph
Flight Duration      durA	59.3 s	97.5 s	50.3 s	134.4s	86.7 s
Notes	Perfect flight. Chute soon after apogee	1st igniter came out, chute after apogee	1st igniter came out, added extra powder, chute was perfect	1st igniter came out, chute was late, drifted to Collison addition	Lost in clouds for descent

	<u>Flight #6</u>	Flight #7	Flight #8	Flight #9	Flight #10
Owners	Thomas, Joel, Jeremy				
Rocket Name	Click Clack				
Rocket Type	G-Force				
Rocket Mass	1051 g				
Motor Used	G64-4W				
Estimate Altitude	0.53				
Estimated Cd	825 ft				
Apogee Altitude	789 ft				
Top Speed	158 mph				
Burn Time      burn	1.0 s				
Peak Acceleration    PAcc	13.9				
Avg Accerleration    AAcc	6.9				
Coast to Apogee      C2AP	6.7				
Apogee to Eject      AP2E	-0.7 s				
Ejection Altitude    EAlt	769 ft				
Descent Speed        dESc	13 mph				
Flight Duration      durA	46.85 s				
Notes					