

Flight Results for Big Sharky Fall 2013

	FDS	Demo #1	Demo #2	Flight #3	Flight #4	Flight #5
Owners		Mr D	Mr D	Brooke & Callie	Morgan & Lauren	Nic & Savanna
Rocket Name		Big Sharky	Big Sharky	Brooke Callie's Rocket	A-n-W	Breaking Bad
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		81.2g	81.2g	93.1g	85.6g	73.8g
Motor Used		C6-5	C6-5	C6-5	C6-5	C6-5
Estimated Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		375 ft	375 ft	316 ft	380 ft	380 ft
Apogee Altitude		329 ft	445 ft	311 ft	338 ft	394 ft
Top Speed		86 mph	88 mph	76 mph	83 mph	89 mph
Burn Time	burn	2.0 s	2.1 s	2.2 s	2.2 s	2.2 s
Peak Acceleration	PAcc	10.4 m/s/s	8.5 m/s/s	7.0 m/s/s	7.7 m/s/s	9.0 m/s/s
Avg Accerleration	AAcc	1.9 m/s/s	1.9 m/s/s	1.6 m/s/s	1.7 m/s/s	1.9 m/s/s
Coast to Apogee	C2AP	4.2 s	6.8 s	2.8 s	3.0 s	3.2 s
Apogee to Eject	AP2E	-0.2 s	-3.5 s	1.9 s	1.9 s	1.8 s
Ejection Altitude	EALt	304 ft	393 ft	267 ft	286 ft	359 ft
Descent Speed	dESc	13 mph	9 mph	12 mph	11 mph	34 mph
Flight Duration	durA	20.8 s	32.5 s	21.5 s	24.3 s	13.7 s
Notes		parabolic trajectory, 10 mph west wind	perfect flight, best altitude for this rocket			Chute did not deploy

	FDS	Flight #6	Flight #7	Flight #8	Flight #9	Flight #10
Owners		Dani & Abby	Alex & Colton	Jessi & AB	Paige, Zena & Brittany	Brent, Johnny & Tony
Rocket Name		John Lennon	GTAV	Hump Day	Deathnote	Frank the Tank
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us	ModelRockets.us
Rocket Mass		82.1g	71.7g	70.3g	68.8g	85.2g
Motor Used		C6-5	C6-5	C6-5	C6-5	C6-5
Estimate Cd		0.5	0.5	0.5	0.5	0.5
Estimated Altitude		350 ft	440 ft	378 ft	400 ft	350 ft
Apogee Altitude		420 ft	373 ft	312 ft	358 ft	305 ft
Top Speed		96 mph	93 mph	91 mph	94 mph	83 mph
Burn Time	burn	1.9 s	2.3 s	2.2 s	2.1 s	2.2 s
Peak Acceleration	PAcc	8.7 m/s/s	8.2 m/s/s	8.1 m/s/s	8.7 m/s/s	7.6 m/s/s
Avg Accerleration	AAcc	2.4 m/s/s	1.9 m/s/s	1.9 m/s/s	2.0 m/s/s	1.7 m/s/s
Coast to Apogee	C2AP	3.6 s	4.0 s	2.5 s	3.1 s	4.1 s
Apogee to Eject	AP2E	2.4 s	-0.1 s	3.1 s	2.8 s	-0.5 s
Ejection Altitude	EALt	356 ft	325 ft	216 ft	257 ft	261 ft
Descent Speed	dESc	9 mph	20 mph	21 mph	35 mph	8 mph
Flight Duration	durA	33.4 s	17.1 s	14.7 s	12.6 s	26.3 s
Notes			Chute did not deploy	Chute did not deploy	Chute did not deploy, pointed with the wind	Chute did not deploy

	FDS	Flight #11	Flight #12	Flight #13	Flight #14	Flight #15
Owners		Casey & Ryan	Daric & Kyle	Sterling & Ryan		
Rocket Name		CY	Discovery	Bling		
Rocket Type		ModelRockets.us	ModelRockets.us	ModelRockets.us		
Rocket Mass		68.8 g	79.5 g	68.4 g		
Motor Used		C6-5	C6-5	C6-5		
Estimated Cd		0.5	0.5	0.5		
Estimated Altitude		385 ft	350 ft			
Apogee Altitude		447 ft	353 ft	371 ft		
Top Speed		98 mph	86 mph	97 mph		
Burn Time	burn	2.1 s	2.2 s	2.0 s		
Peak Acceleration	PAcc	10.5 m/s/s	10.1 m/s/s	9.6 m/s/s		
Avg Accerleration	AAcc	2.2 m/s/s	1.8 m/s/s	2.2 m/s/s		
Coast to Apogee	C2AP	3.6 s	4.2 s	4.4 s		
Apogee to Eject	AP2E	2.0 s	0.1 s	-0.1 s		
Ejection Altitude	EALt	404 ft	325 ft	355 ft		
Descent Speed	dESc	14 mph	36 mph	24 mph		
Flight Duration	durA	26.6 s	12.6 s	16.6 s		
Notes			Chute did not deploy			