

# Rocket Data Sheet and Launch Record

Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Mr Duhrkopf	<b>Ejection Occurred</b>		Apogee Altitude:	445 Ft
Rocket Name:	Big Sharky	“ During Ascent	“ At Apogee	Top Speed:	88 mph
Type:	Modelrockets.us	“ After Apogee	“ During Descent	Burn Time (burn):	2.1 s
Length: (inches)	22.625 in	“ Ejection Failure		Peak Acc (Pacc):	8.5
Diameter: (inches)	1.645 in	<b>Parachute Deployment</b>		Avg Acc (Aacc):	1.9
Fins:	3	“ Full	“ Partial	Coast Apogee (C2AP):	6.8 s
Listed Mass: (g)	85 g	“ Did not deploy		Apogee to Eject (AP2E):	-3.5 s
Date of Construction:	9/4/2012	<b>Parachute Descent</b>		Ejection Alt. (EALt):	393 Ft
Recommended Motors: (C only)		“ Stable Descent	“ Tangled lines	Descent Speed (dESc):	9 mph
C6-3, C6-5		“ Some swaying	“ Sprial descent	Flight Duration (durA):	32.5 s
Center Gravity(CG):	13.77 in	<b>Reason for Recovery Failure</b>		<b>Altimeter Data Analysis</b>	
Center Pressure(CP):		“ Damaged Chute		Everything looks good except for the apogee to eject time and coast to apogee. Visually ejection was just after apogee so way before is not correct. Delay time is supposed to be 5 s so 6.8 s is curious. The flight was very normal	
Estimated Cd:	0.5	“ Tight Upper Body tube			
Predicted Altitude:	375 Ft	“ Improper setup			
<b>Prediction Notes</b>		“ Chute Separated			
Prediction spreadsheet says 530 ft but last years launches were not even close to that. Last year was a bit windy so I am going with a value just a little higher.		“ Motor Ejected			
		“ Unplanned Separation			
		“ Other			
		<b>Descent Speed</b>			
		“ Slow	“ Average speed		
		“ Very fast	“ Ballistic		
<b>Launch Information</b>		<b>Landing</b>			
Date:	10/7/2013	“ Soft	“ Water		
Time of Launch:	6th period	“ Tree	“ Caught on Wire		
Location:	175 yd marker	“ Hard	“ Crash		
Rocket Mass:	83.1 g	“ Landed on Building			
Motor:	C6-5	<b>Recovery</b>		<b>Post Launch Information</b>	
Motor Mass:	25.1 g	“ Full Recovery	“ Lost	<b>Rocket Damage</b>	
Altimeter Mass:	6.7g	“ Not Recoverable	“ Parts lost	“ No Damage	
Liftoff Mass:	115.8 g	Distance & Direction from pad:		“ Scuffed Paint	
Wind Direction:	West	East by the blocking sleds		“ Launch Lugs	
Wind Speed:	Calm at launch	<b>Recovery Notes</b>		“ Engine Stuck	
Igniter:	Estes	Perfect.		“ Fins Damaged	
No. of tries to ignite:	1			Describe any damage to the rocket:	
<b>Ignition</b>				None	
“ Successfull	“ Blow Out				
“ Caught on clips	“ Motor Failure				
<b>Trajectory</b>				<b>Flight Grade</b>	
“ Straight-Up	“ Spinning			“ Excellent	
“ Corkscrew	“ Non-vertical			“ Good	
“ Into the wind	“ Unstable			“ Poor	
<b>Launch Notes</b>		<b>Lessons Learned</b>		<b>Rocket Project Suggestions</b>	
Pushed parachute as far into the tube as possible to lower CG in an attempt to make it go straighter. Rocket was set to go straight up and wind was calm at time of the launch. Had planned to aim with the wind but forgot. Perfect launch really		Calm wind makes for a better flight. Not always a choice though. Wind and drag are a big factor in performance of this rocket. Need to change your prediction if the winds are calm		Buy Mr D Starburst	