Rocket Data Sheet and Launch Record

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Rocket Description		Recovery Information		Altimeter Two Data	
Owner:	Zena, Brittany, Pai	Ejection Occurred		Apogee Altitude:	1866 Ft
Rocket Name:	Foxy	" During Ascent	" At Apogee	Top Speed:	324 mph
Type:	Arcas	" After Apogee	" During Descent	Burn Time (burn):	3.1 s
Length: (inches)	56"	" Ejection Failure		Peak Acc (Pacc):	12.9 s
Diameter: (inches)	2.6"	Parachute Deployment		Avg Acc (Aacc):	4.9 s
Fins:	4	" Full	" Partial	Coast Apogee (C2AP):	7.4 s
Listed Mass: (g)	620g	" Did not deploy		Apogee to Eject (AP2E):	8 s
Date of Construction: Feb 2014		Parachute Descent		Ejection Alt. (EALt):	1849 Ft
Recommended Motors: (G only)		" Stable Descent	" Tangled lines	Descent Speed (dESc):	7 mph
G64-7W, G80-10T, G77-7R, G76-7G,		" Some swaying	" Sprial descent	Flight Duration (durA):	171.4 s
G53-5FJ		Reason for Recovery Failure		Altimeter Data Analysis	
Center Gravity(CG):	39.25 in	" Damaged Chute		Went pretty hight and everything seems accurate but the apogee to eject time seems off. It was after apogge and not before. The duration was very long and 7 mph decribes the deccent well. I	
Center Pressure(CP):	46.75 in	" Tight Upper Body tube			
Estimated Cd:	0.7	" Improper setup			
Predicted Altitude:	1456 Ft	" Chute Separated			
Prediction Notes		" Motor Ejected		recomend the use off the new altimeter two.	
We are the first Arcas to have the G75 engine		" Unplanned Separation			
so we have very little to compare but with same rockets with different engines. Our		" Other			
predictions may not be as acurate as some		Descent Speed			
because of this. We went with the average		" Slow	" Average speed		
bewteen what we saw and found these.		" Very fast	"Ballistic		
		Landing			
Launch Information		" Soft	" Water		
Date:	4/22/2014	" Tree	" Caught on Wire		
Time of Launch:	10:50:00	" Hard	" Crash		
Location:	CHS	" Landed on Building			
Rocket Mass:	654 g	Recovery		Post Launch Inform	ation
Motor:	G75-7M	" Full Recovery	" Lost	Rocket Damag	
Motor Mass:	131 g	" Not Recoverable	" Parts lost	" No Damage	
Altimeter Mass:	6.7g	Distance & Direction from pad:		" Scuffed Paint	
Liftoff Mass:	791.7 g	very far away to the south west-landed		" Launch Lugs	
Wind Direction:	NorthEast	half way up Mount Moses		" Engine Stuck	
Wind Speed:	8 mph	Recovery Notes		" Fins Damaged	
Igniter:	First Fire	Very far into the field as it took a slow		Describe any damage to the rocket:	
No. of tries to ignite:	1	deccend almost halfway up Mt Mosses.		Tiny bits of paint scuffed off	?
Ignition		1			
" Successfull	" Blow Out				
" Caught on clips	" Motor Failure				
Traject					
" Straight-Up	" Spinning				
" Corkscrew	"Non-vertical			Flight Grade	
"Into the wind	"Unstable	Lessons Learned		" Excellent	
Launch 1		Make sure the body tube is loose enough		" Good	
The preformance was very sparkly. I took one		to allow it to pop. Also too much vacline		" Poor	
try to get it to launch and when it launched		could be a bad thing with the engine and		Rocket Project Suggestions	
went straitght up. The rocket poped after appogge and slowly blew away. It landed		delay charge (via the Tetris).		Twitter Master, more licurish,	
halfway up Mt. Mosses.				The rest of the section,	
marriag up ivit. iviosses.					