Northwest Indian College Space Center

Rocket	Size (inches & ounces)				Velocity ft/s	Acceleration ft/s	CG w/o eng	CG w/eng-elec	CP
	Length	Diameter	Weight w/o eng	Weight w/eng-elec					
LOC Magnum	80.00	5.54	128.62	159.76	470.29	220.38	51.60	56.79	69.45
LOC Hi-Tech H45	49.75	2.63	20.00	32.98	568.98	290.12	28.87	36.35	41.78
LOC Hi-Tech H45	49.75	2.63	20.00	32.98	568.98	290.12	28.87	36.35	41.78
PML D Region Tomahawk	71.00	3.00	54.82	72.66	375.92	479.21	44.07	47.73	62.11
LOC Cyclotron	57.00	3.00	35.17	53.52	406.06	319.50	35.51	39.87	50.46
Mad Cow Patriot	52.75	4.00	44.00	70.35	266.71	224.61	27.50	31.23	36.31
PML Ariel	58.00	3.00	51.00	66.93	365.50	461.89	34.26	37.37	47.73

Rocket	Margin	Launch Lug	Motor	Altitude	Parachute				
					Size (in)	Deploy Altitude	Deploy Speed	Deploy Time	Protection
LOC Magnum	3.25	1/2 launch lugs	J275W-10	2821.89	60	2821.67	4.24	13.20	fireproof cloth
LOC Hi-Tech H45	4.97	1/4 inch cardboard tube	H73J-10	3084.76	28	3073.98	26.03	13.50	fireproof cloth
LOC Hi-Tech H45	4.97	1/4 inch cardboard tube	H73J-10	3084.76	28	3073.98	26.03	13.50	fireproof cloth
PML D Region Tomahawk	5.82	3/8 thin wall brass tube	H242T-10	1756.24	48	1740.88	31.24	11.20	piston
LOC Cyclotron	6.50	3/8 cardboard tube	H123W-10	2063.38	36	2098.39	46.47	12.60	fireproof cloth
Mad Cow Patriot	2.20	3/8 thin wall brass tube	H123W-6	1109.04	36	1108.52	5.92	8.60	fireproof cloth
PML Ariel	4.35	3/8 thin wall brass tube	H242T-10	1783.58	36	1774.38	24.18	11.20	piston

Rocket	Tracking	Experiment	Video Camera	Altimeter	Stable Vel @ inches
LOC Magnum	audible		y	RDAS-Tiny	63.02
LOC Hi-Tech H45	audible	Roll/Vibration	y	RDAS-Tiny	41.74
LOC Hi-Tech H45	audible	Roll/Vibration	y	RDAS-Tiny	41.74
PML D Region Tomahawk	audible		y	RDAS-Tiny	26.71
LOC Cyclotron	audible	Predicted Altitude	y	RDAS-Tiny	40.37
Mad Cow Patriot	audible	Temperature	y	RDAS-Tiny	60.07
PML Ariel	audible		y	RDAS-Tiny	27.71

Note: CG & CP are measured from the tip of the nose cone