

MASA launch, White Bear Lake, March 22, 2003					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Ben Brown	Banshee	A8-3	separation	1	2.5
2	Ben Brown	Banshee	C6-5	separation	1	9
3	Ben Brown	Bob II (Banshee)	B6-4	separation	1	5
4	Ben Brown	Bob	A8-3	unstable	1	2.5
5	Elliot Carpenter	Alpha III	A8-3	good flight	1	2.5
6	Elliot Carpenter	Astrosat	C6-5	"a little cruise missile-ish"	1	9
7	Elliot Carpenter	Gnome	A10-3t		1	2.5
8	Elliot Carpenter	SR-71	C6-5	good flight	1	9
9	Todd Carpenter	Death Star	C6-3	good flight	1	9
10	Todd Carpenter	Sidewinder	C6-3	good flight	1	9
11	Seth Cochran	Fat Boy	B6-2	good flight	1	5
12	Ted Cochran	Silver Comet	C11-3	good flight	1	9
13	Ted Cochran	Silver Comet	C11-3	for its 2nd flight of the day	1	9
14	Ted Cochran	ARV Condor	B4-2	good flight	1	5
15	Ted Cochran	Sling Wing	1/2A3-2t	nice glide	1	1.25
16	Ted Cochran	Skywinder	C5-3	good flight	1	9.5
17	Ted Cochran	KosRox Mars Lander	D12-3	nice flight, landed upright on its legs	1	17
18	Ted Cochran	Orbital Transport	C5-3	very nice flight & glide	1	9.5
19	Dan Cook	Banshee	A10-3t	no deployment	1	2.5
20	Dan Cook	Smokey	B6-4	good flight	1	5
21	Dan Cook	Smokey	C6-3	good flight	1	9
22	Dan Cook	Banshee	A8-3	no chute	1	2.5
23	Russ Durkee	Custom Serval	C6-7	good flight	1	9
24	Russ Durkee	Custom Serval	C6-7	good flight	1	9
25	Russ Durkee	Astrocarn	C6-7	good flight	1	9
26	Russ Durkee	Quest UFO	B6-6	good flight	1	5
27	Mike Erpelding	Stonebreaker	B6-4	first flight	1	5
28	Mike Erpelding	Silver Moon	(2) A3-4t	good flight	2	5
29	Mike Erpelding	SR-71	B6-4	good flight	1	5
30	Mike Erpelding	Stars & Stripes	B6-4	good flight	1	5
31	Alan Estenson	Longshot	C11-0; B6-4	good flight	2	14
32	Alan Estenson	Six Pack	C11-5	good flight	1	9
33	Alan Estenson	Zenith 2	B6-0; B6-6	good flight	2	10
34	Alan Estenson	Der Big Red Max	C6-5	good flight	1	9
35	Alan Estenson	Dynamic Carrier	B4-4	late ejection	1	5
36	Alan Estenson	Chain Lightning	D12-5	good flight	1	17
37	Alan Estenson	MQ-2	A8-3	crumpled chute	1	2.5
38	Alan Estenson	Xactron Projectile	B6-4	separation	1	5
39	Alan Estenson	Stomp	B4-4	BOINK	1	5
40	Alan Estenson	Mini Patriot	A3-4t	good flight	1	2.5
41	Lee Frisvold	Corkscrew	C6-5	good flight	1	9

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42	Lee Frisvold	Prowler	C6-3		1	9
43	Lee Frisvold	Di's Maniac	D12-3	separation	1	17
44	Lee Frisvold	Cosmic Cobra	D12-3	good flight	1	17
45	Lee Frisvold	Silver Comet	D12-3	good flight	1	17
46	Lee Frisvold	Baby Bertha	B6-4	good flight	1	5
47	Lee Frisvold	Little Shorter Bertha	B6-4	good flight	1	5
48	Lee Frisvold	Tornado	A8-3	good flight	1	2.5
49	David Gensler	Aurora	C6-5	good flight	1	9
50	David Gensler	Quasar	A6-4	good flight	1	2.5
51	David Gensler	Night Wing	B4-4		1	5
52	David Gensler	Heatseeker	B4-4	unstable	1	5
53	David Gensler	Fat Boy	C6-3	good flight	1	9
54	Josh Handeland	Corkscrew	A8-3	lost a fin	1	2.5
55	Josh Handeland	Alpha	A8-3	good flight	1	2.5
56	Josh Handeland	Mean Machine	D12-5	good flight	1	17
57	Steven Handeland	Fat Boy	C6-3	good flight	1	9
58	Steven Handeland	Pathfinder	D12-5	good flight	1	17
59	Alex Holtzman	Banshee	C6-5	good flight	1	9
60	Alex Holtzman	Flash	C6-5	good flight	1	9
61	Alex Holtzman	Flash	C6-3	good flight	1	9
62	Jason Huttinga	Banshee	C6-5	separation	1	9
63	Jason Huttinga	Banshee	B6-4		1	5
64	Jason Huttinga	Freedom Flyer	A8-3	good flight	1	2.5
65	Jason Huttinga	Freedom Flyer	B6-4	good flight	1	5
66	Jason Huttinga	Freedom Flyer	A8-3	stuck on the pad	1	2.5
67	Ken Jarosch	Extended Fat Boy	D12-3	good flight	1	17
68	Ken Jarosch	Alien Space Probe	C5-3	good flight	1	9.5
69	Ken Jarosch	D-Region Tomahawk	C11-3	good flight	1	9
70	Ken Jarosch	Super Big Bertha	D12-3	good flight	1	17
71	Ken Jarosch	Blue Ninja	C11-3	good flight	1	9
72	Ken Jarosch	Firehawk	C11-3	good flight	1	9
73	Ken Jarosch	Interceptor	C11-3	good flight	1	9
74	Mike Kenny	Banshee	C6-5	separation	1	9
75	Mike Kenny	Banshee	B6-4	separation	1	5
76	Mike Kenny	"piggy"	B6-4	good flight	1	5
77	Mike Kenny	Astro	A8-3	good flight	1	2.5
78	Ryan Kenny	Banshee	C6-5	separation	1	9
79	Ryan Kenny	Banshee	B6-4	good flight	1	5
80	Ryan Kenny	Banshee	B6-4	good flight	1	5
81	Ryan Kenny	Banshee	A8-3		1	2.5
82	Ellison Lenz	Mach 10	C6-3	barrel roll	1	9

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
83	Ellison Lenz	V2	A8-3	good flight	1	2.5
84	Ellison Lenz	Flat Cat	B6-2	nice glide	1	5
85	Ellison Lenz	ARV Condor	C6-3		1	9
86	Ellison Lenz	Spool	C6-0	(Ellison flies a motor mount, forgets rest of rocket.)	1	9
87	Ellison Lenz	Razor	B6-4	separation	1	5
88	Stuart Lenz	MM Shuttle	MM	unstable	1	0.3
89	Stuart Lenz	MM Mercury Redstone	MM	unstable	1	0.3
90	Stuart Lenz	MM Alien Invader	MM	stable? Wow!	1	0.3
91	Stuart Lenz	MM Mercury Atlas	MM	unstable	1	0.3
92	Stuart Lenz	MM Glider	MM	nice glide	1	0.3
93	Stuart Lenz	MM Ozone Research Proj.	MM	arc	1	0.3
94	Stuart Lenz	MM V2 #2	MM	unstable	1	0.3
95	Stuart Lenz	Estes Clone	A8-3	good flight	1	2.5
96	Stuart Lenz	Tube Fin Cluster	(3) A8-5	spit all engines - lawn dart	3	7.5
97	Stuart Lenz	Shuttle of Doom	C6-3	yesch	1	9
98	Stuart Lenz	Red White Blue #1	A8-5	good flight	1	2.5
99	Adam Lucey	Banshee	C6-5	separation	1	9
100	Adam Lucey	Banshee	B6-4	good flight	1	5
101	Adam Lucey	Banshee	B6-4	good flight	1	5
102	Adam Lucey	Banshee	A8-3	separation	1	2.5
103	David Lucey	Banshee	C6-5	good flight	1	9
104	David Lucey	Lego Man	B6-4	good flight	1	5
105	David Lucey	Go High	B6-4	no chute	1	5
106	David Lucey	High Fly	A8-3	good flight	1	2.5
107	David Lucey	Lego Man	A8-3	good flight	1	2.5
108	Erin Nelson	Banshee	C6-5	good flight	1	9
109	Erin Nelson	Banshee	A8-3	separation	1	2.5
110	Erin Nelson	Banshee	B6-4	separation	1	5
111	Erin Nelson	Banshee	A8-3	good flight	1	2.5
112	Glen Overby	Aerobee 300	C6-5	good flight	1	9
113	Glen Overby	RFR	C11-0; C11-5	did not stage	1	9
114	Glen Overby	RFR	C6-5	good flight	1	9
115	Glen Overby	Horse With No Name	C6-5	no streamer	1	9
116	Mark Thell	Anything	C6-5	lost streamer	1	9
117	Mark Thell	Whatever	D12-5	good flight	1	17
118	Mark Thell	Quad Bertha	(4) B6-4	no chute(s)	4	20
119	Mark Thell	Omega	C6-5	good flight	1	9
Total Flights: 119					127	827.35
Total Motors: 127						
Total Impulse (N-s): 827.35						

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
Average Impulse (N-s): 6.5						
Motor Distribution						
MM	7					
1/4 A	0					
1/2A	1					
A	29					
B	35					
C	45					
D	10					
E	0					
F	0					
G	0					
H	0					