

MASA launch, Blaine, April 26, 2003					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Todd Carpenter	Fat Boy	B6-4	"It ain't over 'til the Fat Boys fly"	1	5
2	Seth Cochran	Fat Boy	C6-5	"It ain't over 'til the Fat Boys fly"	1	9
3	Ed Eastman	Fat Boy ("Cartman")	B6-4	"It ain't over 'til the Fat Boys fly"	1	5
4	Alan Estenson	Fat Boy	C5-3	"It ain't over 'til the Fat Boys fly"	1	9.5
5	Paul Jarosch	Fat Boy - Tall	E9-4	"It ain't over 'til the Fat Boys fly"	1	29.5
6	Travis Lawell	Fat Boy	C6-5	"It ain't over 'til the Fat Boys fly"	1	9
7	Ellison Lenz	Fat Boy	D12-3	"It ain't over 'til the Fat Boys fly"	1	17
8	Glen Overby	Fat Boy	D12-3	"It ain't over 'til the Fat Boys fly"	1	17
9	Mark Thell	Fat Boy	C6-5	"It ain't over 'til the Fat Boys fly"	1	9
10	David Whitaker	Fat Boy	C5-3	"It ain't over 'til the Fat Boys fly"	1	9.5
11	Don Wiebold	Fat Boy	C6-3	"It ain't over 'til the Fat Boys fly"	1	9
12	Todd Carpenter	Big Bertha	C6-5	"It really ain't over 'til the Big Berthas sing"	1	9
13	Ted Cochran	Big Bertha	B6-4	"It really ain't over 'til the Big Berthas sing"	1	5
14	Leif Eischen	Big Betty	C6-7	"It really ain't over 'til the Big Berthas sing"	1	9
15	Alan Estenson	Big Bertha	B6-4	"It really ain't over 'til the Big Berthas sing"	1	5
16	Ken Hoyme	Big Bertha	C6-5	"It really ain't over 'til the Big Berthas sing"	1	9
17	Paul Jarosch	Broadsword	D12-5	"It really ain't over 'til the Big Berthas sing"	1	17
18	Stuart Lenz	Ranger Clone	(3) C6-5	"It really ain't over 'til the Big Berthas sing"	3	27
19	Brianna Androff	Viper III	(3) D12-5	first flight	3	51
20	Nick Boddy	Death Star	B6-4	good flight	1	5
21	Tim Bush	RingHawk V3 mod 2	C6-5	1st flight B-glider	1	9
22	Tim Bush	Wombat	A8-3	clone B-glider	1	2.5
23	Tim Bush	RingHawk V3 mod 2	C6-3	2nd flight	1	9
24	Tim Bush	Navaho	B6-0; B4-4	first flight	2	10
25	Tim Bush	TAZ	A3-4t	helicopter	1	2.5
26	Tim Bush	"I forgot"	A3-4t	clone breakup	1	2.5
27	Tim Bush	Ringhawk V3	C6-5	1st flight B-glider	1	9
28	Tim Bush	Mercury Redstone	D12-5	good flight	1	17
29	Tim Bush	Wombat	B4-4	boost glider?	1	5
30	Tim Bush	Snort	F20-7	good flight	1	64
31	Tim Bush	Mercury Redstone	D12-5		1	17
32	Allison Carpenter	HiJax	B6-4	"grass to space"	1	5
33	Elliot Carpenter	SR-71	B6-4	separation	1	5
34	Todd Carpenter	Rocket Cam	B6-4	smile!	1	5
35	Todd Carpenter	Death Star	B6-2	good flight	1	5
36	Todd Carpenter	Astrosat	B6-2	Astro race!	1	5
37	Todd Carpenter	Rocket Cam	C6-5	smile!	1	9
38	Seth Cochran	Deltie Thunder	D12-3	nice glide, pod nose cone separated	1	17
39	Seth Cochran	Tinee	1/2A3-2t	in flight breakup?	1	1.25
40	Seth Cochran	Deltie Airshow	C5-3	gliders came off early	1	9.5

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41	Seth Cochran	Tinee	A10-3t	sinker not a glider, lawn dart	1	2.5
42	Seth Cochran	Deltie Airshow	C5-3		1	9.5
43	Ted Cochran	Shuttle Columbia	C5-3	excellent flight, nice booster glide	1	9.5
44	Ted Cochran	Phobos	G80-10	whee! - lawn dart in drainage ditch	1	120
45	Ted Cochran	MIRV Gryphon	(4) A10-0t; (4) 1/2A3-4t	Holey moley! - complete success & found all parts!	8	15
46	Ted Cochran	Saturn V	E15-4	no ejection, lawn dart, #sob#	1	40
47	Ted Cochran	Orbital Transport	C5-3	good flight	1	9.5
48	Ted Cochran	LOC IV	H165	history - 1st rocket to gain L1 cert at a MASA launch	1	165
49	Ted Cochran	NCR Eliminator	F62-4	Last NCR motor :-)	1	80
50	Ted Cochran	Sling Wing	A10-3t	nice glide	1	2.5
51	Ted Cochran	Mars Lander	D12-3	good flight	1	17
52	Dan Colestock	Team Rocket 1	(2) D12, D11; D12-7, E9-8	TARC rocket, no chute	5	98.5
53	Ken Corey-Edstrom	Strong Arm	F23-4	good flight	1	56
54	Ken Corey-Edstrom	Air Spike	F20-4	airbrushed & everything!	1	64
55	Ken Corey-Edstrom	Navaho	B6-0; B6-4	good flight	2	10
56	Ken Corey-Edstrom	Swinger	C6-5	"never worked yet" (and still didn't)	1	9
57	Ken Corey-Edstrom	Starfire	D12-5		1	17
58	Ken Corey-Edstrom	Bullpuppy	G38-7	"old reliable"	1	94
59	Martin Dietl	LOC Aura replica	F23-7	good flight	1	56
60	Martin Dietl	TLP Exocet MM40	(2) D12-5	good flight	2	34
61	Martin Dietl	LOC 4-29SS	(2) D11-P, (2) D12	good flight	4	70
62	Martin Dietl	LOC Aura replica	F23-7		1	56
63	Russ Durkee	Jaeger	G80-10		1	120
64	Russ Durkee	LOC Onyx	G80-10	good flight	1	120
65	Russ Durkee	LOC Onyx	G80-10	2nd flight of the day	1	120
66	Ed Eastman	XF-52 Stardrake	B6-4	first flight	1	5
67	Ed Eastman	Aries	A8-3	first flight	1	2.5
68	Ed Eastman	TLP Hawk 1.6	D12-5		1	17
69	Ed Eastman	Crossbow Bolt	A8-3		1	2.5
70	Ed Eastman	XF-52 Stardrake	C5-3	good flight	1	9.5
71	Ed Eastman	R2-D2	A10-3t	no chute, unstable	1	2.5
72	Ed Eastman	TLP Hawk 1.6	C11-5	good flight	1	9
73	Ed Eastman	Stomp	A8-3	separation	1	2.5
74	Ed Eastman	Mosquito	1/2A3-2t	good flight	1	1.25
75	Leif Eischen	Flash	A6-4	good flight	1	2.5
76	Leif Eischen	Astrosat	C6-5	2 satellites	1	9
77	Leif Eischen	Yankee	A8-3		1	2.5
78	Leif Eischen	Tomahawk Cruise Missile	C6-5		1	9
79	Leif Eischen	Wizard	A6-4	separation	1	2.5
80	Tanner Eischen	Galileo	A8-3		1	2.5
81	Tanner Eischen	Galileo	1/2A6-2		1	1.25

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
82	Tanner Eischen	Rascal	B4-4	alien on board, good flight	1	5
83	Tanner Eischen	Overdrive	1/2A3-4t	good flight	1	1.25
84	Travis Eischen	Tornado	A8-3		1	2.5
85	Travis Eischen	Mosquito	1/2A3-2t	good flight	1	1.25
86	Travis Eischen	Tornado	1/2A6-2	two pieces on purpose	1	1.25
87	Travis Eischen	Twister	1/2A6-2	lawn dart	1	1.25
88	Mike Erpelding	Sumo	H128	Successful Level 1 cert flight. Congrats!	1	166.2
89	Mike Erpelding	Rocket's Red Glare	(3) D12-5	good flight	3	51
90	Mike Erpelding	Flat Cat	C6-3	flat spin	1	9
91	Mike Erpelding	Blue Streak	C6-7		1	9
92	Alan Estenson	Graduated	H238-M	history - 1st rocket ever flown on H at MASA launch	1	167.8
93	Alan Estenson	Starburst	(2) G55-10	good flight	2	250
94	Alan Estenson	Cyclotron	H148-S	good flight	1	206
95	Alan Estenson	Khufu's Revenge	F21-4	"flying pyramids rock!"	1	55
96	Alan Estenson	PAC-3	F21-6	nice flight, water landing	1	55
97	Alan Estenson	Maxi Searcher	E9-6	good flight	1	29.5
98	Alan Estenson	Wanderer	E9-8, (2) C6-0	nice boost, shock cord separation	3	47.5
99	Dave Fergus	Boattail Fat Boy	D12-3		1	17
100	Dave Fergus	Black Brant VB	G35-4	Last flight of the day	1	105
101	Sarah Fergus	Gollum & his Precious	C5-3	good flight	1	9.5
102	Sarah Fergus	ExoSkeel	C6-3	good flight	1	9
103	Art Gibbens	Maxi Alpha III	D12-0; D12-3	2 stage, lawn dart	2	34
104	Art Gibbens	Really Fast Balloon	D12-7	"A loser" ?	1	17
105	Art Gibbens	Comet	B6-4	first flight	1	5
106	Art Gibbens	Blue Arrow	C6-0; A8-5	"old faithful"	2	11.5
107	Art Gibbens	Toblerone	B4-4	"chocolate lover's dream"	1	5
108	Art Gibbens	Sattelite Launcher	C6-5	"ugly as sin"	1	9
109	Art Gibbens	unknown	C6-5	first flight	1	9
110	Art Gibbens	Mercury Redstone	B4-2	old kit, good flight	1	5
111	Art Gibbens	Rascal	C6-5		1	9
112	Art Gibbens	Sattelite Launcher	A8-3		1	2.5
113	Phil Gibbens	Venture	A6-4	separation	1	2.5
114	Phil Gibbens	Scrambler	C6-3		1	9
115	Phil Gibbens	Stomp Rocket	A8-3		1	2.5
116	Phil Gibbens	Helicopter	1/2A3-2t	good flight	1	1.25
117	Phil Gibbens	Death Star	C6-3	good flight	1	9
118	Phil Gibbens	Sith Infiltrator	C5-3	good flight	1	9.5
119	Phil Gibbens	Death Star	C6-3	no chute	1	9
120	Phil Gibbens	Astrosat	C6-5	drag race	1	9
121	Joe Gonier	Caliber ISP	G80-4		1	120
122	Lee Grimm	Mark II	B6-4	good flight	1	5

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
123	Brian Handeland	Big Daddy	D12-3		1	17
124	Brian Handeland	Yellow Jacket	C6-5		1	9
125	Brian Handeland	Long Shot	C6-3		1	9
126	Brian Handeland	Thunderhawk	B6-4	good flight	1	5
127	Josh Handeland	Mean Machine	D12-5	good flight	1	17
128	Josh Handeland	Alpha	B6-4		1	5
129	Josh Handeland	Sizzler	C6-5	separation	1	9
130	Steve Handeland	V2	D12-3	first flight	1	17
131	Steve Handeland	Fat Boy	C6-3		1	9
132	Craig Hansen	Bee	G64-10	rod whip	1	120
133	Craig Hansen	Alpha III	C6-5	good flight	1	9
134	Craig Hansen	Boink	A10-3t	good flight	1	2.5
135	Craig Hansen	I don't remember	A8-3	good flight	1	2.5
136	Craig Hansen	Pip Squeak	C6-3	good flight	1	9
137	Hugh Hansen	Gnome	A10-3t	good flight	1	2.5
138	Hugh Hansen	Flash	C6-5		1	9
139	Joel Henry	Gekko	F21-8	good flight	1	55
140	Joel Henry	Japanese Artillery Rocket	E9-6	power prang	1	29.5
141	Neal Higgins	Big Daddy	(3) E9-6	dual rear ejection - good flight!	3	88.5
142	Neal Higgins	Moonraker	E9-4	first flight	1	29.5
143	Neal Higgins	Trident	E9-6	1st flight, lawn dart	1	29.5
144	Neal Higgins	Onyx	G38-7		1	94
145	Neal Higgins	Oddjob	D12-5	1st flight, no chute	1	17
146	Neal Higgins	Initiator	G35-7	good flight	1	105
147	Alexander Holtzman	Dude	D12-3	good flight	1	17
148	Alexander Holtzman	Mongoose	B6-0; B6-4	good flight	2	10
149	Alexander Holtzman	Banshee	C6-5	good flight	1	9
150	Alexander Holtzman	Flash	C6-5	good flight	1	9
151	Alexander Holtzman	Cyclone	C6-3	good flight	1	9
152	Daniel Holtzman	Razor	C6-5	good flight	1	9
153	Daniel Holtzman	HL-20	B6-2	good flight	1	5
154	Daniel Holtzman	Razor	C6-5	good flight	1	9
155	(?) Holtzman	Comanche	D12-0; B6-0; A8-3	good flight	3	24.5
156	Alissa Hoyme	ExoSkeel	C6-3	1st flight, rod lock	1	9
157	Kirsten Hoyme	Aztec	C6-0; C6-7	1st time 2 stage, excellent flight	2	18
158	Steve Hum	Strong Arm	F22-5		1	65
159	Steve Hum	Strong Arm	F22-5	good flight	1	65
160	Steve Hum	Callisto	G64-7	good flight	1	120
161	Steve Hum	Aspire	F52-5	"my first midpower flown at this field"	1	78
162	Steve Hum	Ecee Thunder	D12-3	good flight	1	17
163	Steve Hum	Ecee Thunder	D12-3	good flight	1	17

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
164	Ashlee Isham	Viper III	(3) D12-5	good flight	3	51
165	Kenneth Jarosch	Arreaux	F20-7		1	64
166	Kenneth Jarosch	Initiator	G35-7		1	105
167	Kenneth Jarosch	Big Daddy	F21-4	first flight	1	55
168	Kenneth Jarosch	HV Arcas	F50-4	first flight	1	80
169	Kenneth Jarosch	HV Arcas	G35-7	good flight	1	105
170	Paul Jarosch	Executioner	E9-4	good flight	1	29.5
171	Paul Jarosch	Blue Ninja	E9-4	good flight	1	29.5
172	Tom Lawell	Squire	G35-7	first flight	1	105
173	Tom Lawell	Buzz	F20-7	1st flight under new ownership	1	64
174	Travis Lawell	Razor	G80-7	first flight	1	120
175	Ellison Lenz	Super Stager	B6-0; B6-0; B6-6	no 3rd stage ignition, fence post	2	10
176	Ellison Lenz	Silver Comet	D12-3	good flight	1	17
177	Ellison Lenz	Phenex	D12-5, (3) C6-5	good flight	4	44
178	Ellison Lenz	lii' Nuke	F21-4	good flight	1	55
179	Ellison Lenz	Weasel	F50-4	good flight	1	80
180	Ellison Lenz	With Liberty	(3) E9-4	Motors donated by Hub Hobby Center, Little Canada	3	88.5
181	Ellison Lenz	Norad	G40-7		1	120
182	Ellison Lenz	Star Fiter	C6-5		1	9
183	Stuart Lenz	Phobos	H238-M	Successful Level 1 cert flight. Congrats!	1	167.8
184	Stuart Lenz	Silver Comet	E9-4	good flight	1	29.5
185	Stuart Lenz	Pokemon #1	F21-4	good flight	1	55
186	Stuart Lenz	SS Cassiopeia	C6-5	clone	1	9
187	Stuart Lenz	Executioner	E9-4	good flight	1	29.5
188	Stuart Lenz	Micro Glider Clone	MM	"curse you Red Baron"	1	0.3
189	Stuart Lenz	Micro Glider	MM	unstable	1	0.3
190	Stuart Lenz	Flat Cat Clone	C6-3		1	9
191	Scott Litsheim	Photon Probe	A8-3	first flight	1	2.5
192	Scott Litsheim	Photon Probe	B6-4	2nd flight	1	5
193	Scott Litsheim	Photon Probe	C5-3	3rd flight	1	9.5
194	Scott Litsheim	Navy Guided Missile	C5-3	early ejection	1	9.5
195	Scott Litsheim	Army Tactical Missile	C5-3	separation	1	9.5
196	Alex Miller	Sleep N' Eat	(2) D12, D11; D12-7, E9-8	good flight	5	98.5
197	Randy Miller	Navaho	B6-0; B6-4	good flight	2	10
198	Randy Miller	Phoenix	D12-5	good flight	1	17
199	Randy Miller	Super Loki Dart	D12-5	good flight	1	17
200	Glen Overby	Ringer	D12-0; C6-7		2	26
201	Glen Overby	Aerobee 300A	F21-6	good flight	1	55
202	Glen Overby	Aerobee 300A	E18-7		1	39
203	Gus Price	Block Park	B6-4	good flight	1	5
204	Gus Price	Black Kit	B6-4	good flight	1	5

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205	Gus Price	Syclone	C6-5	good flight	1	9
206	Gus Price	Black Kit	B6-4	spit motor	1	5
207	Larry Schwartz	Nightwing	C6-5	good flight	1	9
208	Larry Schwartz	Stretch D Fat Boy	D12-5	good flight	1	17
209	Larry Schwartz	Nike Smoke	C6-7	good flight	1	9
210	Larry Schwartz	Chapparral	G35-7		1	105
211	Nathan Stebbins	Alpha III	B6-4	1st rocket, 1st flight, separation	1	5
212	Nathan Stebbins	Astrosat	C6-5	2 trolls payload, good flight	1	9
213	Jared Sweet	Old Glory	D12-3	first flight	1	17
214	Jared Sweet	Mosquito Squared	A8-3	2X upscale	1	2.5
215	Jared Sweet	AMRAM	A10-3t	first flight	1	2.5
216	Jared Sweet	Mosquito Squared	C6-3	good flight	1	9
217	Mark Thell	Scratch	B6-4	good flight	1	5
218	Mark Thell	Lil' Bigger Nuke	F23-7		1	56
219	Mark Thell	Impulse	(2) D12-7		2	34
220	Mark Thell	Loc "I forgot"	G35-7	good flight	1	105
221	Mark Thell	TLP Nike Ajax	(3) D12-3	1st flight, no chute, lawn dart	3	51
222	Mark Thell	Omega	D12-0; B6-6	good flight	2	22
223	Mark Thell	Jupiter C	C6-3	first flight	1	9
224	Mark Thell	Streamer Duration	E9-6	first flight	1	29.5
225	Mark Thell	Lance Beta	G75-M	"whoa baby", separation	1	135.6
226	Mark Thell	WAC Corporal	F23-4		1	56
227	Steph Walker	Phobos	G80-4	strobe lite on board, good flight	1	120
228	David Whitaker	Norad Pro Max	H165-M	good flight	1	165
229	David Whitaker	TLP Hellfire	D12-3	good flight	1	17
230	David Whitaker	Mustang	F25-9	great flyer	1	80
231	David Whitaker	AMRAAM	C6-5	good flight	1	9
232	David Whitaker	Viper III	(3) D12-5		3	51
233	Don Wiebold	V2	D12-3	good flight	1	17
234	Don Wiebold	Skywriter	C6-5	good flight	1	9
235	Don Wiebold	Alpha	C6-7	good flight	1	9
236	Don Wiebold	AMRAM 4	F25-4	good flight	1	80
237	Don Wiebold	Mean Machine	D12-5		1	17
238	Don Wiebold	Stormcaster	E9-6		1	29.5
239	Saskia Wilson	Fat Boy	B6-4	good flight	1	5
240	Steve Wood	Big Jim	C6-5	good flight	1	9
241	Steve Wood	Fat Boy	C6-5	good flight	1	9
242	Richard Ziegler	no name	B6-4	good flight	1	5
243	Richard Ziegler	The Rabbit	B6-4	good flight	1	5
244	Jim (?)	Redstone	C6-5	core sample	1	9

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Total Flights: 244					298	7811.5
Total Motors: 298						
Total Impulse (N-s): 7811.5						
Average Impulse (N-s): 26.2						
<b>Motor Distribution</b>						
MM	2					
1/4 A	0					
1/2A	12					
A	29					
B	41					
C	77					
D	63					
E	22					
F	24					
G	22					
H	6					