

MASA launch, Elk River, July 24, 2004					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Seth Cochran	Sling Wing	A10-3t	1 min 55 sec	1	2.5
2	Ted Cochran	Ring Hawk	B4-2	good flight	1	5
3	Ted Cochran	Jurassic Sling Wing	A10-3t	1 min 7 sec	1	2.5
4	Eli & Liam Curry	[unknown]	A8-3		1	2.5
5	Gib Curry	Yellow Bird	C11-7		1	9
6	Gib Curry	[unknown]	B6-4	good flight	1	5
7	Gib Curry	[unknown]	C11-7		1	9
8	Gib Curry	[unknown]	C11-7	good flight	1	9
9	Gib Curry	[unknown]	B6-4	good flight	1	5
10	Gib Curry	[unknown]	A10-3t	good flight	1	2.5
11	Ed Eastman	Astrosat LSX	B6-4	good flight	1	5
12	Ed Eastman	Thunderbird 7	C6-3	separation	1	9
13	Ed Eastman	Flea	A8-3	good flight	1	2.5
14	Ed Eastman	XF-51 Stardrake	C6-3	good flight	1	9
15	Ed Eastman	Fat Boy	C6-3	good flight	1	9
16	Ed Eastman	Astrosat LSX	C6-3	good flight	1	9
17	Ed Eastman	D-Region Tomahawk	A8-3	good flight	1	2.5
18	Ed Eastman	Aries	B6-4	good flight	1	5
19	Alan Estenson	Minne-Skeeter	B4-4	good flight	1	5
20	Alan Estenson	Six-Pack	C11-5	good flight	1	9
21	Alan Estenson	Der Big Red Max	C6-5	good flight	1	9
22	Alan Estenson	Fat Boy	C5-3	reluctant chute	1	9.5
23	Alan Estenson	Snidewinder	D12-5	good flight	1	17
24	Alan Estenson	EZC6-5	C6-5	good flight	1	9
25	Alan Estenson	Python	E9-6	good flight	1	29.5
26	Alan Estenson	Super Duper Blobbo	E30-7	good flight	1	40
27	Alan Estenson	Maxi Searcher	E15-7	good flight	1	40
28	Alan Estenson	Warrior 56	C6-5	separation	1	9
29	Alan Estenson	PAC-3	F21-6	good flight	1	55
30	Alan Estenson	Zenith 2	B6-0; B6-6	good flight	2	10
31	Alan Estenson	Chain Lightning	D12-5	good flight	1	17
32	Dave Fergus	X-File	C6-5	good flight	1	9
33	Dave Fergus	D-Region Tomahawk	D12-7	good flight	1	17
34	Dave Fergus	SHX-15	D12-5	good flight	1	17
35	Dave Fergus	ECEE Thunder	D12-3	lawn dart - rekkited - "oh, the horror"	1	17
36	Dave Fergus	X-File	C6-5	good flight	1	9
37	Dave Fergus	Silver Comet	D12-5	good flight	1	17
38	Lee Frisvold	V2	A8-3	1969 kit	1	2.5
39	Lee Frisvold	Gyroc	A8-3	good flight	1	2.5
40	Lee Frisvold	Mars Lander	C6-3	1970 kit	1	9
41	Lee Frisvold	Patriot	B6-4	first flight	1	5

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42	Lee Frisvold	Mean Machine Clone	D12-3		1	17
43	Lee Frisvold	Tumbleweed	1/2A3-4t	lost it	1	1.25
44	Lee Frisvold	V2	D12-5	clone	1	17
45	Lee Frisvold	Zenith 2	B6-0; B6-4	good flight	2	10
46	Lee Frisvold	2 stage Fat Boy	D12-0; C6-5	good flight	2	26
47	Lee Frisvold	Skywinder	C6-3	good flight	1	9
48	Lee Frisvold	Mars Lander	C6-3	"stuck" the landing!	1	9
49	Lee Frisvold	Mean Machine Clone	D12-3	good flight	1	17
50	Lee Frisvold	Astrocam	D12-7	good flight	1	17
51	Lee Frisvold	Astrocam	C11-5		1	9
52	David Gensler	Paveway	B4-2	good flight	1	5
53	David Gensler	BLU 97B Cluster Bomb	B4-2	good flight	1	5
54	David Gensler	Mustang	F25-9	good flight	1	80
55	David Gensler	Exocet	(2) D12-5	good flight	2	34
56	David Gensler	Screamin Mimi	D12-5	good flight	1	17
57	David Gensler	Cheetah	F25-9	reluctant chute	1	80
58	David Gensler	Arreaux	F20-7	good flight	1	64
59	David Gensler	V2	E9-4	beautiful, slow flight	1	29.5
60	David Gensler	Hyper-X	C6-5	good flight	1	9
61	David Gensler	CC Express	C11-0; C11-5	good flight	2	18
62	Lee Grimm	Deltie	1/2A3-4t	good flight	1	1.25
63	Lee Grimm	Deltie	A3-4t	good flight	1	2.5
64	Ken Jarosch	Apollo 13 Cmd Module	A10-3t	good flight	1	2.5
65	Ken Jarosch	Alien Space Probe	C6-3	good flight	1	9
66	Ken Jarosch	Borg Cube	C5-3		1	9.5
67	Ken Jarosch	Katysha Slim	D12-5	good flight	1	17
68	Ken Jarosch	High Flying Jester	D12-5	good flight	1	17
69	Ken Jarosch	2X Solar Warrior	D12-5	good flight	1	17
70	Ken Jarosch	Minnesota Mosquito	C11-3	4.77X upscale	1	9
71	Ken Jarosch	Small Profile Pyramid	D12-3	good flight	1	17
72	Paul Jarosch	Cruise Missile	A3-4t	good flight	1	2.5
73	Paul Jarosch	Wacky Wiggler	B6-4	good flight	1	5
74	Paul Jarosch	Yankee Revisited	A8-3		1	2.5
75	Paul Jarosch	Screamin Mimi	D12-5		1	17
76	Paul Jarosch	Boinkless Roc	C6-5	good flight	1	9
77	Paul Jarosch	CATO	B6-0		1	5
78	Paul Jarosch	Tornado	A8-3	good flight	1	2.5
79	Paul Jarosch	Strike Fighter	C6-3	good flight	1	9
80	Paul Jarosch	CATO	C6-0		1	9
81	Paul Jarosch	Screamin Mimi	D12-5	good flight	1	17
82	Paul Jarosch	Mosquito	A3-4t	good flight	1	2.5

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
83	Damian Kostron	Fishing Lure	C6-5	good flight	1	9
84	Damian Kostron	Mercury Redstone	C6-5	good flight	1	9
85	Damian Kostron	Saturn 1	C6-5	good flight	1	9
86	Damian Kostron	V2	B6-4	good flight	1	5
87	Damian Kostron	KosRox Mars Lander	D12-3	good flight	1	17
88	Ellison Lenz	Spool	C6-5	good flight	1	9
89	Ellison Lenz	Screamin Mimi	D12-5		1	17
90	Ellison Lenz	Phenex	(3) C6-3, (1) D12-3	very unstable (lit all motors? - unknown)	4	44
91	Ellison Lenz	Starship Excalibur	C6-3	good flight	1	9
92	Ellison Lenz	Super Stager	C6-0; C6-7	good flight	2	18
93	Ellison Lenz	Fat Boy	D12-3	good flight	1	17
94	Ellison Lenz	Cluster Boom	C6-3	good flight	1	9
95	Stuart Lenz	I forget	C6-5	good flight	1	9
96	Stuart Lenz	Dragon Ship 7	C6-3	reluctant chute	1	9
97	Stuart Lenz	Patrol Cruiser	C6-3	good flight	1	9
98	Stuart Lenz	RITSOS	C6-5	good flight	1	9
99	Stuart Lenz	Intruder	C6-5	good flight	1	9
100	Stuart Lenz	USS Atlantis	C6-5	good flight	1	9
101	Stuart Lenz	[unknown]	C6-5		1	9
102	Stuart Lenz	Skylab	C6-3	good flight	1	9
103	Stuart Lenz	Mach 10	C6-3	unstable	1	9
104	Stuart Lenz	Estes Clone	C6-5	good flight	1	9
105	Stuart Lenz	Baca	C6-3	separation	1	9
106	Stuart Lenz	Luna 3	C6-5	good flight	1	9
107	Stuart Lenz	Deuces Wild au natural	(2) C6-5	good flight	2	18
108	Brett McDowell	Guardian Python	A8-3	good flight	1	2.5
109	Brett McDowell	Guardian Python	C6-3		1	9
110	Brett McDowell	Screamin Mimi	D12-5	good flight	1	17
111	Brett McDowell	Baby Bertha	A8-3	good flight	1	2.5
112	Brett McDowell	Guardian Python	A8-3	good flight	1	2.5
113	Brett McDowell	Screamin Mimi	D12-3	good flight	1	17
114	Brett McDowell	[unknown]	A10-3t	good flight	1	2.5
115	Carl Persson	V2	D12-5	good flight	1	17
116	Carl Persson	Humpty Dumbty	C6-3		1	9
117	Carl Persson	Black Bullet	D12-5	good flight	1	17
118	Carl Persson	Tri-Copter	C6-5	lotsa pieces	1	9
119	Carl Persson	Black Bullet	D12-5	good flight	1	17
120	Carl Persson	V2	D12-5	good flight	1	17
121	Eric Myers	Skywinder	B6-4	good flight	1	5
122	Eric Myers	Astrocam	C6-7	good flight	1	9
123	Heather Myers	Scissor Wing Transport	C6-3	clone, good flight	1	9

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124	Heather Myers	Condor Black	B6-4	good flight	1	5
125	Heather Myers	ACME Spitfire	D12-5	tangled chute	1	17
126	Jim Myers	Deuces Wild	(2) C6-5	good flight	2	18
127	Jim Myers	Fat Boy	D12-5	good flight	1	17
128	Jim Myers	Tres	(3) B6-4	first flight	3	15
129	Jim Myers	Tour de Deuce #1	(2) C6-5	good flight	2	18
130	Jim Myers	Deuce Booster	(2) C6-0; C6-5	nice	3	27
131	Jim Myers	Tour de Deuce #2	(2) C6-5	good flight	2	18
132	Jim Myers	Deuces Wild Downscale	(2) A10-3t	moved quick!	2	5
133	Jim Myers	Deuce Upscale	(2) D12-5	partial chute	2	34
134	Jim Myers	ECEE Thunder	D12-3	nice glide, landed in median	1	17
135	Jim Myers	Turbo 2000 / Condor	D12-5	lawn dart - rekkited - needs more power	1	17
136	Jim Myers	Geminee 18mm Clone	B4-4	good flight	1	5
137	Justine Myers	Crusader	C6-3	good flight	1	9
138	Justine Myers	Condor White	B6-4	good flight	1	5
139	Justine Myers	CiCi	A8-3	good flight	1	2.5
140	David Tafoya	Destructor	C6-5	David's first rocket	1	9
141	David Tafoya	Destructor	C6-5		1	9
142	David Tafoya	Destructor	C6-5		1	9
143	David Tafoya	Destructor	C6-5		1	9
144	David Tafoya	Destructor	C6-5		1	9
145	David Tafoya	Destructor	C6-5		1	9
146	David Tafoya	Destructor	C6-5		1	9
147	Mark Thell	Fat Boy	C6-5	separation	1	9
148	Mark Thell	MPC Lunar Patrol	B6-2	1st flight - "my 1st rocket"	1	5
149	Mark Thell	Aerobee Hi	B6-4	good flight	1	5
150	Mark Thell	Renegade Kit Bash	D12-5	no chute	1	17
151	Mark Thell	Renegade Kit Bash	D12-5	good flight	1	17
152	Mark Thell	Cherokee D	C11-7	good flight	1	9
153	Mark Thell	Fiesta	C6-5	good flight	1	9
154	Mark Thell	Saturn 1b	D12-0; A8-3	successful 2 stage mod	2	19.5
155	Mark Thell	Pathfinder	D12-5	good flight	1	17
Total Flights: 155					175	1983.5
Total Motors: 175						
Total Impulse (N-s): 1983.5						
Average Impulse (N-s): 11.3						
Motor Distribution						
MM	0					
1/4 A	0					
1/2A	2					

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
A	22					
B	25					
C	78					
D	40					
E	4					
F	4					
G	0					
H	0					