

MASA launch, Blaine, August 24, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Ted Cochran	Snitch	C5-3	4th Annual Great UFO Drag Race	1	9.5
2	Ted Cochran	Quest UFO	C5-3	4th Annual Great UFO Drag Race	1	9.5
3	Mollie Frisvold	Snitch	C6-0	4th Annual Great UFO Drag Race	1	9
4	Ellison Lenz	Snitch	C6-3	4th Annual Great UFO Drag Race	1	9
5	Ted Cochran	Comanche-3	D12-0; C6-0; C6-7	Comanche-3 Drag Race	3	35
6	David Whitaker	Comanche-3	C11-0; B6-0; B6-6	Comanche-3 Drag Race	3	19
7	Lee Frisvold	Comanche-3	D12-0; C6-0; C6-7	Comanche-3 Drag Race	3	35
8	Glen Overby	Comanche-3	D12-0; C6-0; C6-7	Comanche-3 Drag Race	3	35
9	Leland Cheng	Comanche-3	D12-0; C6-0; C6-7	Comanche-3 Drag Race	3	35
10	Mollie Frisvold	Skywinder	C6-3	good flight	1	9
11	Ed Eastman	Hawk	D12-3	1st flight, nice	1	17
12	Lee Frisvold	Zenith II	C6-0; C6-5	good flight	2	18
13	Ellison Lenz	Silver Comet	D12-3	good flight	1	17
14	Martin Dietl	Cosmic Comet	C6-5		1	9
15	Craig Hansen	Pipsqueak	C6-5	good flight	1	9
16	Mollie Frisvold	CC Express	C11-0; C11-5	1st flight, staged on the rod, turned out OK!	2	18
17	Alissa Hoyme	Nemesis	B6-4	good flight	1	5
18	Kirsten Hoyme	Flash	C6-5	good flight	1	9
19	Ellison Lenz	Skywinder	C6-3	good flight	1	9
20	Ted Cochran	Shuttle	C5-3	good flight	1	9.5
21	David Gensler	Hyper X	B4-2	good flight	1	5
22	Ellison Lenz	Phenix	D12-5	marginally squirrely	1	17
23	Hugh Hansen	unknown	B6-4	good flight	1	5
24	Joe Schneider	Tetrahedron	C6-5	1st flight, nice boost, hard landing	1	9
25	Paul Newswanger	Quark	1/2A		1	1.25
26	Rick Newswanger	Viking	B6-4	NARTREK Bronze streamer duration flight	1	5
27	David Gensler	Sizzler	B6-2		1	5
28	Stuart Lenz	BlackCat Turbo Flash	A8-3	1st flight	1	2.5
29	Ed Eastman	Stomp	B6-4	BOINK!	1	5
30	Ted Cochran	Shuttle	C5-3	3rd flight	1	9.5
31	Ben Oelschlaeger	Bandit	B6-4		1	5
32	Tim Bush	Darkwing V.2	B6-4	1st flight	1	5
33	Tim Bush	The Point!	B6-4		1	5
34	Ed Eastman	Hawk	C11-5		1	9
35	Austin Whitaker	HL-20	C6-3	never flown successfully	1	9
36	David Whitaker	Streamer Duration	B6-6	NARTREK Bronze streamer duration flight	1	5
37	Ken Hoyme	Goblin	C11-7	good flight	1	9
38	Ed Eastman	Crossbow Bolt	A8-3	good flight	1	2.5
39	Conrad Sowder	Sprint	B6-4	good flight	1	5
40	Conrad Sowder	Falcon	C6-5	good flight	1	9
41	Tim Bush	Mercury Redstone	D12-5		1	17
42	Austin Whitaker	HL-20	C6-3		1	9
43	Ted Cochran	Navaho	C6-0; C6-7		2	18

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
44	Nick Oelschlaeger	Alpha 3	B6-4		1	5
45	Ellison Lenz	Stomp Infinity	E9-8		1	29.5
46	Evan Sowder	Falcon	B6-4	1st flight	1	5
47	Conrad Sowder	Sprint	A8-3	1st flight	1	2.5
48	Dan vanDyke	Monarch	C6-5	4th flight	1	9
49	Rick Newswanger	Viking	B6-4	NARTREK Bronze streamer duration flight	1	5
50	Ben Oelschlaeger	Bandit	B6-4		1	5
51	Nick Oelschlaeger	Alpha 3	B6-4		1	5
52	Tim Bush	Mercury Redstone	D12-5		1	17
53	Tim Bush	Darkwing V.2	C6-5	delay too long	1	9
54	Ken Hoyme	Big Bertha	B6-4		1	5
55	Evan Sowder	Falcon	C6-5		1	9
56	Glen Overby	Deep Space Zero	D12-5		1	17
57	Alissa Hoyme	CC Express	C11-0; C11-7	1st flight	2	18
58	Conrad Sowder	Sprint	C6-5		1	9
59	Ben Oelschlaeger	Bandit	B6-4		1	5
60	Alexis Schuck	Code Red	B6-4		1	5
61	Dominic Schuck	Big Bertha	C6-5		1	9
62	Dave Fergus	X-File	C6-7	test of rearward recovery profile before ejection	1	9
63	Tim Bush	The Point!	B6-4		1	5
64	Dave Fergus	Shrox-15	C11-3		1	9
65	David Gensler	Sprint	B6-4	NARTREK Bronze streamer duration flight	1	5
66	Christian Vatsaas	F22	C6-3		1	9
67	Rick Vatsaas	Explorer 2000	B6-4	NARTREK Bronze streamer duration flight	1	5
68	Conrad Sowder	Falcon	C6-5	stuck chute	1	9
69	Chad Link	Gnome	A10-3t	NARTREK Bronze streamer duration flight	1	2.5
70	Chad Link	Black Rocket 2	A10-3t	tumble recovery	1	2.5
71	Rick Vatsaas	Big Bertha	C11-3	army surplus chute	1	9
72	Mollie Frisvold	Baby Bertha	B6-4	1st flight	1	5
73	Evan Sowder	Falcon	C6-5		1	9
74	Conrad Sowder	Sprint	B6-4		1	5
75	Ted Cochran	Silver Comet	D12-5	spinner chute	1	17
76	Stuart Lenz	FlatCat	B4-2		1	5
77	Seth Cochran	Deltie Airshow	B4-4	1st flight, stuck on rod	1	5
78	Craig Hansen	Nike Arrow	A10-3t		1	2.5
79	Hugh Hansen	Gnome	1/2A3-4t		1	1.25
80	Christian Vatsaas	Droid Fighter	C6-3		1	9
81	Seth Cochran	Deltie Airshow	B4-4	1st flight, 2nd try	1	5
82	Craig Hansen	Mini Meanie	A10-3t	1st flight	1	2.5
83	Toshi Higashi	Menace	C6-5		1	9
84	Jay Higashi	Polaris	C6-5		1	9
85	Lee Frisvold	Tornado	A8-3		1	2.5
86	Mollie Frisvold	Skywinder	C6-3		1	9

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
87	Ted Cochran	Payloader	D12-5	Adept A1 altimer on board, 795 feet reading	1	17
88	Kamiko Higashi	Big Bertha	C6-5	good flight	1	9
89	Jay Higashi	SR-71	C6-5	unstable	1	9
90	Sheehan Wheeler	Tristar	B4-4	separation	1	5
91	Leland Cheng	Hottie w/ Astrocam	D13-10	1st flight, scratchbuilt	1	20
92	Martin Dietl	Cosmic Cobra	C6-5		1	9
93	Leland Cheng	Comanche-2	C6-0; B6-6	NARTREK Bronze 2 stage flight	2	14
94	Craig Hansen	Mongoose	C6-0; C6-7	good flight	2	18
95	Joe Schneider	Tie Fighter	C6-5	lawn dart	1	9
96	Joe Schneider	Wizard	B6-4	good flight	1	5
97	Joe Schneider	Cruise Missile	A10-3t		1	2.5
98	Joe Schneider	Maverick	A10-3t	good flight	1	2.5
99	David Gensler	Big Rage	C6-3	good flight	1	9
100	Joel Henry	A. Probe	C6-3	1st flight	1	9
101	Dominic Schuck	Big Bertha	C6-5		1	9
102	Parker Schuck	Serno	D12-5	1st flight	1	17
103	Alexis Schuck	Code Red	B6-4		1	5
104	John Anderson	Honest John	C6-5		1	9
105	Ellison Lenz	Razor	B4-2		1	5
106	Craig Hansen	Alpha 3	C6-5		1	9
107	David Gensler	Yankee	B6-4	NARTREK Bronze parachute duration flight, tangled	1	5
108	Craig Hansen	Boink	A10-3t		1	2.5
109	Nick Oelschlaeger	Alpha 3	B6-4		1	5
110	Kirsten Hoyme	Apollo	B6-4		1	5
111	Stuart Lenz	Bullpup	B6-4		1	5
112	Mollie Frisvold	2 Stage Fat Boy	D12-0; C6-5	did not clear the rod!	2	26
113	Alexis Schuck	Code Red	C6-5		1	9
114	Parker Schuck	Serno	D12-5		1	17
115	Stuart Lenz	Luna 2	B6-4		1	5
116	Stuart Lenz	FlatCat	B4-2	2nd flight	1	5
117	Evan Sowder	Sprint	B6-4		1	5
118	Dominic Schuck	Big Bertha	C6-5		1	9
119	Craig Hansen	Mongoose	B6-4	separation	1	5
120	Stuart Lenz	Luna 1	B6-4	1st flight	1	5
121	Nick Kutzke	Tristar	A8-3	1st flight	1	2.5
122	Rick Vatsaas	Satellite Drone	C6-5		1	9
123	Leland Cheng	Alpha	B4-4	NARTREK Bronze streamer duration flight	1	5
124	David Gensler	Venus Probe	C6-3		1	9
125	Stuart Lenz	Venus Probe	C6-3	1st flight	1	9
126	Caislin Wheeler	AMRAAM	C6-5		1	9
127	Stuart Lenz	Black Cat Solar Flame	B6-2	not stable!	1	5
128	John Carlson	WAC Corporal	G38-4	scratchbuilt	1	94

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
129	Leland Cheng	V2	F24-4	nice flight	1	50
130	Leland Cheng	Honest John	E15-4	chuffy	1	40
131	Ted Cochran	Phobos	G35-4	1st flight	1	105
132	Martin Dietl	Exocet MM-40	(2) D12-5	1st flight, 1st cluster rocket, nice flight	2	34
133	Martin Dietl	Exocet MM-40	(2) D12-5	2nd flight	2	34
134	Martin Dietl	Exocet MM-40	(2) D12-5	3rd flight, tangled chute	2	34
135	Ed Eastman	Magnum	D12-0; B6-6		2	22
136	Mike Erpelding	Rocket's Red Glare	(3) D12-5	NARTREK Silver cluster flight	3	51
137	Dave Fergus	lil' Nuke	F20-7	good flight	1	64
138	Lee Frisvold	V2	G35-4	good flight	1	105
139	Lee Frisvold	Big Daddy	E9-6	good flight	1	29.5
140	Lee Frisvold	WAC Corporal	F20-4		1	64
141	Lee Frisvold	Ranger Clone	(3) C6-3		3	27
142	Mollie Frisvold	Graduator	G35-7		1	105
143	Mollie Frisvold	Onyx	F20-4		1	64
144	David Gensler	Warthog	G35-7	good flight	1	105
145	David Gensler	Initiator	G38-7	good flight	1	96
146	David Gensler	Echostar	C6-0; C6-7		2	18
147	Ron Hammer	Super Big Bertha	E11-3		1	35
148	Ron Hammer	Mercury Atlas	E18-4		1	39
149	Ron Hammer	Super Big Bertha	F12-5	good flight	1	45
150	Ron Hammer	Dude	D12-3	"dude!"	1	17
151	Craig Hansen	Scratch	D12-5	good flight	1	17
152	Joel Henry	Gekko	D12-5		1	17
153	Kerry Hodges	Gabriel	D12-5, (2) C5-3	tangle chute	3	35
154	Kerry Hodges	Yellow Jacket II	F50-4		1	80
155	Kerry Hodges	2X Goblin	F24-4	good flight	1	50
156	Alissa Hoyme	Mean Machine	D12-5	good flight	1	17
157	Kirsten Hoyme	WAC Corporal	E9-8		1	29.5
158	Steve Hum	ECEE Thunder	D12-3	nice glide	1	17
159	Steve Hum	Callisto	G33-7		1	100
160	Steve Hum	AMRAAM 2	G64-7	good flight	1	120
161	Steve Hum	Aspire	G33-5	good flight	1	100
162	Ken Jarosch	Arreaux	F23-4	good flight	1	56
163	Ken Jarosch	Initiator	F20-4	good flight	1	64
164	Ken Jarosch	Super Big Bertha	E11-3		1	35
165	Ken Jarosch	Sumo	G80-4	very nice!	1	120
166	Ken Jarosch	Optima	E18-4		1	39
167	Mike Kutzke	Glowing Initiator	F20-4		1	64
168	Ellison Lenz	Norad	G40-10	"biggest engine I've ever flown"	1	120
169	Ellison Lenz	Norad	G40-10		1	120
170	Stuart Lenz	2-stage Banshee	B6-0; A8-5	good flight	2	7.5
171	Stuart Lenz	Express	D12-0; D12-5	good flight	2	34

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
172	Stuart Lenz	2-stage Glider	B6-0; A8-5	prang	2	7.5
173	Stuart Lenz	Scratch 2 stage tube fin	B6-0; A8-5	core sample	2	7.5
174	Stuart Lenz	Pokemon #1	F21-4	no chute	1	55
175	Joe Schneider	"Alan's" NCR X-Wing	G80-7	cruise missile & 10' ejection	1	120
176	Greg & Joe Schneider	Forte	H128		1	177.9
177	Larry Schwartz	AMRAAM 2 stage	D12-0; C6-7	1st flight, nice!	2	26
178	Dan vanDyke	Mustang	F21-4	1st flight	1	55
179	Dan vanDyke	3X Monarch	(3) E9-4	2nd flight, very nice	3	88.5
180	Renee Wheeler	Spike	F23-7	1st flight, very nice	1	56
181	David Whitaker	Viper 3	(3) E9-6	2nd flight, very nice	3	88.5
182	David Whitaker	Mustang	F23-7	3rd flight, nice	1	56
183	David Whitaker	ECEE Thunder	D12-3	very nice!	1	17
Total Flights: 183					220	4450.4
Total Motors: 220						
Total Impulse (N-s): 4450.4						
Average Impulse (N-s): 20.2						
Motor Distribution						
	MM	0				
	1/4 A	0				
	1/2A	2				
	A	15				
	B	49				
	C	76				
	D	36				
	E	14				
	F	14				
	G	13				
	H	1				