

MASA launch, Blaine, May 18, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Lee Frisvold	Scout	1/2A6-2		1	1.25
2	Mollie Frisvold	Tornado	A8-3		1	2.5
3	Alex Carlson	Firestreak	B6-4		1	5
4	Ellison Lenz	X-Ray Upscale	A8-3		1	2.5
5	John Carlson	Der Red Max	C6-3	25 year old rocket	1	9
6	Stuart Lenz	Pokemon #1	D12-3		1	17
7	Walter Kjellander	Astrosat LSX	C6-5		1	9
8	Ryan Schwartz	Helio-Copter	B6-2		1	5
9	Larry Schwartz	Nike Smoke	A8-3	"needs more power!"	1	2.5
10	Paul Newswanger	Firebird	B6-2	19 sec streamer duration	1	5
11	Stuart Lenz	Ringfin #1	B6-2	first flight	1	5
12	Larry Schwartz	Machbuster	D12-7	(Mach 1 not seriously threatened)	1	17
13	Quinn Carlson	Mongoose	B6-4		1	5
14	Rick Newswanger	Stormcaster	D12-5	NARTREK Bronze D flight	1	17
15	Collin Dudra	Goliath	B6-4		1	5
16	Ellison Lenz	Phinex	C6-5	lawn dart	1	9
17	Glen Overby	G56B	D12-5	first flight	1	17
18	Daniel Mortensen	Mean Machine	D12-5	1st flight for this rocket in 10 years, separation	1	17
19	Hugh Hansen	Bouncer	C6-3		1	9
20	Lee Frisvold	Skywriter	B6-4	first flight	1	5
21	Mollie Frisvold	Skywriter	B6-4	first flight	1	5
22	John Carlson	Goblin	D12-7	25 year old rocket	1	17
23	Ted Cochran	Nartrek BSD	B6-6	NARTREK Bronze streamer duration, 44 sec	1	5
24	Dan vanDyke	Monarch	C6-5		1	9
25	David Whitaker	TLP Lance	D12-5		1	17
26	Daniel Mortensen	unknown	B6-4	first flight	1	5
27	Ellison Lenz	Stomp Infinity	D12-3	1st flight, melted itself apart	1	17
28	Travis Lawell	Mongoose	B6-0; A6-4		2	7.5
29	Stuart Lenz	SR98	A8-3	1st flight, scratchbuilt	1	2.5
30	Larry Schwartz	Stretch D-Fat Boy	D12-5		1	17
31	John Carlson	TIE Fighter	C5-3	Took 20 years to finish this rocket	1	9.5
32	Max Goodwill	Viper	A6-4	1st flight, built with Cub Scouts, separation	1	2.5
33	Travis Eischen	Nike Arrow	A3-4t		1	2.5
34	John Carlson	Silver Fox	B6-6	scratchbuilt, "U turn"	1	5
35	Ted Cochran	Navaho	B6-0; B6-6	NARTREK Bronze 2 stage flight	2	10
36	Daniel Mortensen	SuperNova 2 stage	C6-0; C6-7	didn't light upper stage	1	9
37	Craig Hansen	Alpha 3	C6-5		1	9
38	Dave Fergus	X file	C6-3		1	9
39	Dave Fergus	Sprint ABM	D12-3		1	17
40	Ellison Lenz	V2	D12-3		1	17
41	Nick Nolen	Big Rage	C6-3	1st flight, bug payload	1	9

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42	Collin Dudra	Astra	A8-3		1	2.5
43	Stuart Lenz	Red/White/Blue #3	B6-4	streamer duration	1	5
44	Daniel Mortensen	Big Bertha	C6-5	reliable fun	1	9
45	Paul Newswanger	ARV Condor	B4-2	1st flight, gliders became tangled	1	5
46	Tom Lawell	SAM-X	B6-4	22 sec streamer duration	1	5
47	Mike Erpelding	Yankee	B6-4	NARTREK Bronze streamer duration, 30 sec	1	5
48	Sarah Fergus	Pathfinder	D12-7		1	17
49	Ted Cochran	Redliner	B6-6	NARTREK Bronze parachute duration, 97 sec	1	5
50	Max Goodwill	Viper	B6-4	drag race	1	5
51	Travis Eischen	Viper	B6-4	drag race	1	5
52	Hugh Hansen	Gnome	A10-3t		1	2.5
53	Collin Dudra	Goliath	C6-5		1	9
54	Tom Lawell	Fat Boy	C6-5		1	9
55	Daniel Mortensen	Black Brandt II	D12-5		1	17
56	Daniel Mortensen	Bail Out	C6-5	first flight	1	9
57	Larry Schwartz	SAM-X	C6-0; C6-7	first flight	2	18
58	Leif Eischen	Alpha	B6-6	27 sec streamer duration	1	5
59	Tanner Eischen	Starhawk	A6-4		1	2.5
60	Alan Estenson	SD-1	A8-5	15 sec streamer duration	1	2.5
61	David Whitaker	Sizzler	B6-6	streamer duration	1	5
62	Lee Frisvold	SD1	B6-4	30+ sec streamer duration	1	5
63	Mollie Frisvold	SD1	B6-4	streamer duration	1	5
64	Sara Downham	Mini Meanie	1/2A3-4t	streamer duration	1	1.25
65	Jeff Hove	Wind Test Dummy	C6-0; C6-7		2	18
66	Daniel Mortensen	White Lightning	C6-5		1	9
67	Sajel Patel	Yellow Hornet	D12-5	1st flight, scratchbuilt	1	17
68	Mikey Downham	No Name	C6-0; C6-3	1st flight, unstable	2	18
69	Travis Lawell	Rampage	C6-3	fly the red, white and blue	1	9
70	Dan Nolen	Exo-Skell	C6-3	first flight	1	9
71	Ann Nolen	Eliminator	D12-3	first flight	1	17
72	Mikey Downham	No Name Falcon	D12-3		1	17
73	Lee Frisvold	2 stage Fat Boy	D12-0; C6-5	not very stable	2	17
74	Leif Eischen	Astrosat LSX	C6-5	good flight	1	9
75	Alan Estenson	Zenith 2	B6-0; A8-5	NARTREK Bronze 2 stage flight	2	7.5
76	David Gensler	Tristar	B6-4	NARTREK Bronze streamer duration, 43 sec	1	5
77	Leif Eischen	Tomahawk Cruise Missile	C6-5	first flight	1	9
78	Jeff Hove	Big Daddy	D12-3	good flight	1	17
79	David Whitaker	Sizzler	B6-6	streamer duration	1	5
80	Tom Lawell	SAM-X	B6-4	20 sec streamer duration	1	5
81	Tanner Eischen	Rascal	B4-4	good flight	1	5
82	Mike Erpelding	Yankee	B6-4	NARTREK Bronze parachute duration, 148 sec	1	5

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
83	Hugh Hansen	Boink	C6-3	drag race	1	9
84	Craig Hansen	Boink	C6-3	drag race	1	9
85	Mikey Downham	Falcon	C6-3	long walk	1	9
86	Alan Estenson	SD2	B6-6	29 sec streamer duration	1	5
87	Tom Lawell	Big Daddy	D12-5		1	17
88	Sara Downham	Mini Meanie	1/2A3-4t		1	1.25
89	Sara Downham	the Viking	1/2A3-4t		1	1.25
90	Nick Nolen	Big Rage	C6-5	alien inside	1	9
91	Dan Nolen	Venom	C6-5	52 sec parachute duration	1	9
92	Leif Eischen	Alpha	B6-4	20 sec streamer duration	1	5
93	Alan Estenson	SD1	B6-6	28 sec streamer duration	1	5
94	David Gensler	Intruder	B6-4	parachute duration	1	5
95	"Fleet Feet" Team	Lightning	B6-6	MRL competition rocket	1	5
96	Stuart Lenz	MASA 576	C6-5	good flight	1	9
97	David Whitaker	Skywinder	C5-3		1	9.5
98	Paul Newswanger	Wizard	B6-4	streamer duration	1	5
99	Ellison Lenz	Star Fiter	A8-3	first flight	1	2.5
100	Rick Newswanger	Fiesta	B6-4	18 sec streamer duration	1	5
101	Mike Erpelding	Sunny Side Up	C5-3	egglofter, CATO (wow!)	1	9.5
102	Collin Dudra	Astra	B6-4		1	5
103	Alan Estenson	SD2	B6-6	NARTREK Bronze parachute duration, 63 sec	1	5
104	Mikey Downham	Falcon	B6-4	parachute duration	1	5
105	Dan Nolen	Mongoose	C6-0; C6-5	NARTREK Bronze 2 stage flight	2	18
106	Nick Nolen	Fireflash	C6-3	core sample	1	9
107	Doug Dudra	Goliath	C6-5		1	9
108	Stuart Lenz	TubeFin #7	B6-4	streamer duration	1	5
109	Paul Newswanger	Firebird	B6-2	26 sec streamer duration	1	5
110	Dave Fergus	TIE Fighter	C6-3	in honor of "Attack of the Clones"	1	9
111	Doug Dudra	Spitfire	B6-4		1	5
112	Jeff Hove	Centuri Taurus	C6-3	25 year old rocket	1	9
113	Craig Hansen	"I don't remember"	B6-4		1	5
114	Colleen Hansen	Colleen's Purple Rocket	B6-4		1	5
115	Stuart Lenz	TubeFin #7	B6-4	24 sec streamer duration	1	5
116	Ellison Lenz	Phinex	D12-3		1	17
117	Dan Nolen	Mongoose	B6-4	15 sec streamer duration	1	5
118	Glen Overby	Dart 11	D12-7		1	17
119	David Gensler	Phoenix	D12-3		1	17
120	Mike Erpelding	Astrocarn	C6-7	first flight	1	9
121	Glen Overby	G56B	C6-0; C6-7		2	18
122	Stuart Lenz	Red #2	A10-3t	20 sec streamer duration	1	2.5
123	Walter Kjellander	Astrosat LSX	D21-7	really moved!	1	20

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
124	Glen Overby	Funky Stuff	C6-5		1	9
125	Ted Cochran	Elite	B6-6		1	5
126	Stuart Lenz	Courier	B6-2	egglofter, egg survived!	1	5
127	Steve Robb	Generic Rocket	H123	good flight	1	246.8
128	Neal Higgins	Solar Venture	E9-8	good flight	1	29.5
129	Dave Leininger	V2	G38	magnetic apogee detector, good flight	1	94
130	David Whitaker	Mustang	E30-7	good flight	1	40
131	Ken Jarosch	Initiator	F20-4		1	64
132	Lee Frisvold	Patriot	F23-4	1st flight, good	1	56
133	Mike Erpelding	Rocket's Red Glare	(3) D12-5	scratchbuilt, separation	3	51
134	Steve Robb	Comanche-3	D12-0; C6-0; C6-7	went horizontal upwind	3	35
135	Dan vanDyke	Tiny Pterodactyl	F50	good flight	1	80
136	Ken Jarosch	Sumo	G35-4	good flight	1	105
137	David Gensler	Big Brute	F62-4	good flight	1	80
138	Neal Higgins	lii' Nuke	F23-4	good flight	1	56
139	Kent Peterson	lii' Nuke	E18-4	good flight	1	39
140	Lee Frisvold	WAC Corporal	G35-7	first flight	1	105
141	Glen Overby	Nike-Cajun	F20-7	good flight	1	64
142	Dave Fergus	IPFI Strikeship	F50-4	1st flight, rear ejection, good flight	1	80
143	Mollie Frisvold	V2	E9-6	first flight	1	29.5
144	Dave Leininger	The Shadow	G64	altimeter based dual deployment	1	120
145	Mark Thell	WAC Corporal	G38-7	first flight	1	94
146	David Gensler	G-Force	G40-4	good flight	1	120
147	Steve Hum	Optima Clone	G64-7	former Prang Award winner, now redeemed	1	120
148	Alan Estenson	Red Shirt	E9-8	went very high	1	29.5
149	Ken Jarosch	Freedon's Shadow	E15-4	first flight	1	40
150	Doug DeBold	AMRAAM 2	F20-4		1	64
151	Dave Fergus	Heavy Lifter	D12-3, (3) C6-0	flew well, but no chute on payload section	4	44
152	Steve Robb	Generic Rocket	H242	nice flight, but lost in southern forest	1	246
153	Ellison Lenz	Norad	F50-6	first flight	1	80
154	Neal Higgins	Ranger	(3) C6-7	good flight	3	27
155	Walter Kjellander	LOC IV	H238-M	good flight	1	178.4
156	Steve Hum	Callisto	G33-5	good flight	1	100
157	Glen Overby	Aerobee 300A	E18-4	good flight	1	39
158	Doug DeBold	Small Endeavour	G40-7	good flight	1	120
159	Mark Thell	lii' Bigger Nuke	F23-4	good flight	1	56
160	Ted Cochran	Eliminator	F62-6	good flight	1	80
161	Neal Higgins	Big Daddy	(3) E9-8	1st flight, rear ejection, unstable (lit only ??)	2	59
162	Ken Jarosch	Broadsword	E15-4	good flight	1	40
163	Stuart Lenz	Scratchbuilt	(3) A8-3	1st flight, good	3	7.5

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#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
164	Michael Kutzke	Seeker	E30-7	fast take off	1	40
165	Doug DeBold	Legacy	F20-4	good flight	1	64
166	Steve Hum	AMRAAM 2	G33-5	good flight	1	100
167	Neal Higgins	Initiator	F50-6	good flight	1	80
168	Dave Leininger	The Shadow	G64		1	120
169	David Whitaker	Big Daddy	E15-4		1	40
170	Ted Cochran	Honest John	E15-4	nice 1st flight	1	40
171	Ellison Lenz	lil' Nuke	E30-7	1st flight, good	1	40
172	Mike Erpelding	Longshot	D12-0; C6-3	NARTREK Bronze 2 stage flight	2	26
173	Dave Fergus	Cirrus Dart	G35-7	onboard altimeter	1	105
174	David Gensler	Astrobee D	G38-4	very late ejection, stripped chute	1	94
175	Steve Hum	Callisto	F52-8		1	78
176	Ken Jarosch	Arreaux	E18-7	first flight	1	39
177	Steve Robb	Lampshade of Doom	F24		1	50
178	Walter Kjellander	Blue Ninja	E15-7	good flight	1	40
179	Ellison Lenz	With Liberty	(3) E9-4	1st flight, very nice!	3	88.5
180	Ted Cochran	Ted's Testbed	(5) D12	1st flight with 5 motors, very nice!	5	60
181	Jeff Hove	Initiator	F22-5	ram air chute, beeper	1	65
Total Flights: 181					209	5161.2
Total Motors: 209						
Total Impulse (N-s): 5161.2						
Average Impulse (N-s): 24.7						
Motor Distribution						
MM	0					
1/4 A	0					
1/2A	4					
A	17					
B	50					
C	53					
D	34					
E	19					
F	16					
G	13					
H	3					