

MASA launch, Blaine, June 23, 2001					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Chuck Marcio	Hyper X	C6-5		1	9
2	Ed Eastman	Fat Boy	C5-3		1	9.5
3	Jeff Hove	Wind Test Dummy	B6-0; B6-4	streamer recovery	2	10
4	Dean Peterson	Big Daddy	D12-5		1	17
5	Tyler Peterson	Big Dawg	B6-4		1	5
6	Walter Kjellander	Maniac	D12-5	another Britney Spears sticker, Walter?	1	17
7	John Carlson	Centuri Orion (clone)	C6-3		1	9
8	Philip Gibbens	Sith Infiltrator	C6-3	lawn dart	1	9
9	Ingrid Vatsaas	Hijax	B6-4		1	5
10	Ed Eastman	Navaho	B6-0; B6-6		2	10
11	Mollie Frisvold	Tangent	C6-3		1	9
12	Seth Cochran	Deltie	A3-4t	contest flight, 44.4 seconds	1	2.5
13	Walter Kjellander	Maniac	D12-5	2nd flight	1	17
14	John Carlson	Centuri Scorpion	C6-3	20 year old rocket, horizontal flight	1	9
15	Kerry Hodges	Der Red Max	C6-5		1	9
16	Christian Vatsaas	X-Ray	1/2A3-4t		1	1.25
17	Ed Eastman	Crossbow Bolt	A8-3	modified Alpha, 1st flight	1	2.5
18	Ingrid Vatsaas	Anole	1/2A3-4t	engine blew out - crash	1	1.25
19	David Bright	Viking	A8-3	1st flight	1	2.5
20	Paul Schabert	Fat Boy	C5-3	first flight, first rocket built	1	9.5
21	Jeff Hove	Estes Beta	A10-0t; A3-4t	25 year old rocket	2	5
22	Barry Pietersen	Interceptor	C6-7		1	9
23	Mike Martens	Stomp	B6-4	BOINK!	1	5
24	Ingrid Vatsaas	Little Swedish Plumber	B6-6	unstable	1	5
25	Art Gibbens	Blue Arrow	C6-0; B8-5		2	14
26	Lizzy Newswanger	"Hally"	B6-2		1	5
27	Ed Eastman	Enterprise-E	C6-3	1st flight, horizontal	1	9
28	Lee Frisvold	Zenith 2	B6-0; B6-4		2	10
29	Rick Newswanger	?	B6-2		1	5
30	Payton Powell	Maniac	D12-7		1	17
31	Alan Estenson	Hercules	B6-0; A8-5	good flight	2	7.5
32	Mike Martens	F22 Boost Glider	C6-3		1	9
33	Glen Overby	Fat Boy	D12-3	unstable	1	17
34	Katie Kutzke	Painter	A8-3		1	2.5
35	Ben Hovland	Maniac	D12-7	got this as a gift	1	17
36	Dave Fergus	Boattail Fat Boy	D12-5		1	17
37	Lizzy Newswanger	"Hally"	B6-2	separated	1	5
38	Ed Eastman	Rogue Tsetse	D12-3		1	17
39	Christian Vatsaas	F22 Nose Diver	C6-3		1	9
40	Paul Schabert	Fat Boy	C5-3	2nd flight, tangled chute	1	9.5
41	John Carlson	3x upscale Sprite	D12-5		1	17

42	David Bright	"Chute Melting" Fat Boy	B6-6	just-in-time chute deployment	1	5
43	Paul Newswanger	Charazard	B6-2		1	5
44	Mollie Frisvold	Mongoose	B6-0; B6-4	no 2nd stage ignition - lawn dart	1	5
45	Steve Robb	Mongoose	C6-0; C6-7		2	18
46	Dave Fergus	V2	D12-5	primer paint only - eat your heart out Glen	1	17
47	Seth Cochran	Fat Boy	C6-3		1	9
48	Alan Estenson	Zenith 2	B6-0; B4-6	my last B4-6	2	10
49	Dan Walker	Mongoose	B6-0; B6-6	1st flight	2	10
50	Rick Vatsaas	Sam X	C6-0; C6-7		2	18
51	Philip Gibbens	Blue Hornet	1/2A6-2	first flight after CATO	1	1.25
52	Lee Grimm	Straight Up, Not Tested	1/2A3-4t	first flight, piston launcher	1	1.25
53	David Bright	Viking	B4-4		1	5
54	Ed Eastman	R2-D2	A10-3t	1st flight, and it actually flew well!	1	2.5
55	Jeff Hove	Big Daddy	D12-5		1	17
56	Lee Frisvold	2-stage Fat Boy	D12-0; C6-5		2	26
57	Ken Jarosch	Delta Clipper	D12-5		1	17
58	Christian Vatsaas	Flash	B6-4		1	5
59	Art Gibbens	Rascal 2-stage	C6-0; B8-5		2	14
60	Paul Schabert	Mystery Estes Rocket	A8-3		1	2.5
61	Ed Eastman	Mosquito	1/4A3-3t		1	0.63
62	Dan Walker	HeliCat	C6-3		1	9
63	Dave Fergus	Stomp Rocket	B6-2		1	5
64	Rick Vatsaas	Satellite Drone	D12-5	unstable	1	17
65	Josh Handeland	Wizard	A8-3		1	2.5
66	Brian Handeland	Big Daddy	D12-5		1	17
67	Joe Schneider	Tie Fighter	C6-3		1	9
68	Dan Walker	Mongoose	C6-0; C6-7		2	18
69	Katie Kutzke	Painter	B6-4		1	5
70	Philip Gibbens	Death Star	C5-3	"Red 5, standing by..."	1	9.5
71	Rick Newswanger	Eliminator	B6-4		1	5
72	Alan Estenson	Hercules	B6-0; A8-5	2nd stage CATO, no serious damage	2	7.5
73	John Carlson	Centuri Gabriel	B6-4		1	5
74	David Bright	Fat Boy	C5-3	Let's see the chute earlier this time	1	9.5
75	Paul Schabert	Estes Something	A8-3	unstable, one loop	1	2.5
76	Ted Cochran	Slingwing	A10-3t	not a contest entry, boost glider	1	2.5
77	Alex Howard	Fat Boy	C5-3		1	9.5
78	Christian Vatsaas	F22	C6-3	rod locked - motor burned on pad	1	9
79	Brian Handeland	Quark	A3-4t	(lost a few of these)	1	2.5
80	Josh Handeland	Corkscrew	A8-3	separated	1	2.5
81	Steve Handeland	Fat Boy	B6-4		1	5
82	Lee Frisvold	Farside X	B6-0; B6-0; B6-4	1st, possibly last flight	3	15
83	Alan Estenson	Deltie	A10-3t	contest flight, 51.8 seconds (dq nose cone separated)	1	2.5
84	Brian Handeland	Quark	A3-4t	recovered	1	2.5

85	Art Gibbens	Bullpup	B6-0; A8-5	25 year old booster	2	7.5
86	Mollie Frisvold	Maniac	D12-5		1	17
87	Lee Grimm	Straight Up, Not Tested	1/2A3-4t	piston launcher	1	1.25
88	Philip Gibbens	Blue Hornet	A8-3		1	2.5
89	Chuck Marcio	Hyper X	C6-5	2nd flight	1	9
90	Josh Handeland	Sizzler	B6-4	lawn dart	1	5
91	Ted Cochran	HL40	D12-0	HL20 upscale	1	17
92	Seth Cochran	Cobra	A10-0t; 1/4A3-3t	no staging, lawn dart	1	1.25
93	Brian Fergus	BailOut	C6-5	Johnny Quest coming back on a streamer	1	9
94	Art Gibbens	Blue Arrow	B6-0; A8-5		2	7.5
95	Lee Grimm	Banshee	1/2A6-2		1	1.25
96	Alan Estenson	Long Shot	D12-0; C6-7		2	26
97	Lee Grimm	Freedom	1/2A6-2	no ejection, lawn dart	1	1.25
98	Dave Fergus	Manta	A8-3	contest flight, 15.5 seconds, dq	1	2.5
99	Philip Gibbens	Blue Hornet	A8-3	CATO?, separated	1	2.5
100	Art Gibbens	Blue Arrow	B6-0; B8-5	tangled chute, core sample	2	10
101	Dave Fergus	Manta	A8-3	contest flight, 21.5 seconds	1	2.5
102	Doug DeBold	Astrocarn	C6-7		1	9
103	Steve Hum	Callisto	G64-10		1	120
104	Dean Peterson	Initiator	E15	unstable off pad, lots of excitement	1	40
105	Steve Hum	Phoenix	F39-4	good flight	1	50
106	Mike Martens	Bad Toad	(2) D12-5	good flight	2	34
107	Steve Robb	Lampshade of Doom	F24		1	50
108	Mike Kutzke	Seeker	D12-3		1	17
109	Ted Cochran	Comanche-3	D12-0; B6-0; B4-6	last flight <grin>	3	27
110	Alex Howard	Astrobee D	G35-4	1st flight, our 1st "high" power flight	1	105
111	Dan Nestor	Initiator	F25-6	1st flight	1	80
112	Kent Peterson	lil Nuke	F37-m		1	50
113	Walter Kjellander	Forte	G40-7		1	120
114	Art Gibbens	Maxi Alpha 3, 3-stage	D12-0; D12-0; C6-5	1st flight, quite unstable, there was much excitement	3	43
115	Rick Vatsaas	Fierce, Bad Rabbit	F20-7	going for 3000 ft	1	64
116	Tom Brekke	NCR Archer	H128-s	level 1 cert attempt - successful!	1	177.9
117	Jeff Hove	Completely Cardboard	D12-3	rainbow launch	1	17
118	Mollie Frisvold	Graduator	F20-4	1st flight, very nice!	1	64
119	Dave Fergus	Black Brant VB	G64-4	1st flight	1	120
120	Barry Pietersen	SR71 2.5X upscale	G80-4	1st flight	1	120
121	Tyler Peterson	Cheetah	F23-7		1	56
122	Tony Griebie	Strong Arm	G64-7	tangled chute	1	120
123	Joe Schneider	Wasp	E15-4		1	40
124	Steve Robb	2x upscale Bomarc	H128	1st flight, heads up!	1	177.9
125	Kent Peterson	Onyx	G33-7		1	105
126	Mike Kutzke	Harpoon	D12-3	1st flight	1	17
127	Kerry Hodges	Yellow Jacket II	F50-4	1st flight with needle nose design	1	80

128	Steve Robb	Ringtail Comanche	D12-0; C6-0; C6-7	success!	3	35
129	Steve Hum	AMRAAM 2	G64-7		1	120
130	Barry Pietersen	Phantom	G40-4	1st flight	1	120
131	Lee Frisvold	Martin Pescador	(2) D12-5		2	34
132	Dave Fergus	Warthog	G38-7		1	94
133	Kerry Hodges	Derelict D	D12-3		1	17
134	Mike Kutzke	Harpoon	E15-4	2nd flight	1	40
135	Glen Overby	Apache	H180-m	dual deployment	1	236.8
136	Dan Nestor	Mustang	F20-7		1	64
137	Tony Griebie	Initiator	F40-7		1	80
138	Ted Cochran	Eliminator	F62-4	ring slot chute	1	80
139	Rick Vatsaas	Big Daddy	E15-7		1	40
140	Joe Gonier	Strong Arm	G38-7		1	94
141	Kerry Hodges	Gabriel	D12-3, (2) B6-0		3	27
142	Steve Hum	Callisto	G33-5		1	100
143	Tony Griebie	Initiator	G40-7		1	120
144	Ted Cochran	Lightnin	D12-0; D12-7	2nd flight	2	34
145	Mike Connor	Phoebe	G40-4		1	120
146	Doug DeBold	AMRAAM 2	G40	1st flight	1	120
147	John Carlson	Star Blazer, 4X upscale	G38-4	scratchbuilt upscale	1	94
148	Dave Fergus	Nike Smoke	F40-4	"I have a parachute this time!"	1	80
149	Walter Kjellander	Forte	G40-7	2nd flight	1	120
150	Steve Hum	Aspire	G64-7		1	120
151	Mike Connor	Phoebe	G80-4		1	120
152	Kerry Hodges	Goblin	D12-3	2x upscale, 1st flight, scratchbuilt	1	17
153	Jeff Hove	Centuri Arrow 300	B6-0; B6-0; A8-3	1st flight	3	12.5
154	Doug DeBold	Legacy	F22-4		1	65
155	Kent Peterson	Onyx	G54		1	85
156	Dave Fergus	Heavy Lifter	D12-3	no chute on payload section	1	17
157	Ted Cochran	Tower Ring Infernal	F20-4	separated	1	64
158	Steve Robb	Extreme Stovi	H180-m	dual deployment, no main chute (silly Steve!)	1	236.8
159	Jeff Hove	NCR Archer	G80	dual deployment, using magnetic apogee detector	1	120
160	Doug DeBold	Aura	F22-4		1	65
161	Dave Fergus	Silver Comet	D12-3		1	17
162	Steve Robb	Comanche-3	D12-0; C6-0; C6-7	altimeter-equipped	3	35
163	Kent Peterson	lil Nuke	F40-10		1	80
Total Flights: 163					198	5688.03
Total Motors: 198						
Total Impulse (N-s): 5688.03						
Average Impulse (N-s): 28.7						
Motor Distribution						
MM	0					

1/4 A	1
1/2A	7
A	25
B	45
C	38
D	37
E	4
F	16
G	21
H	4