

MASA launch, Blaine, August 26, 2000					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Mollie Frisvold	Corkscrew	C6-3		1	9
2	Mike Martens	Beanpole	B6-4	1st flight, scratchbuilt from spare parts	1	5
3	Lee Frisvold	Scout	A8-3	true tumbler	1	2.5
4	Steve Robb	Swinger	C6-4	boost glider, nice flight	1	10
5	Tyler Thompson	Sizzler	C6-3	rear ejection worked well	1	9
6	Glen Overby	Cluster Thing	(3) C6-5		3	27
7	Nathan Clark	Big Bertha	C6-3		1	9
8	Peder Thompson	Gemini DC	C6-5		1	9
9	Walter Kjellander	Hyper X	C6-5		1	9
10	Dan Nestor	Firebird	C6-5		1	9
11	Alan Estenson	Fat Boy	D12-5	good flight	1	17
12	Alexandra Estenson	Maniac	D12-5	good flight	1	17
13	Steve Robb	Deltie Thunder	F12	boost glider	1	45
14	Brenda Everitt	Big Brenda	D12-7		1	17
15	Kent Peterson	Starburst	(2) E30-7		2	80
16	Steve Hum	Callisto	G33-7		1	100
17	Peder Thompson	Gemini DC	C6-5		1	9
18	Mike Martens	STOMP	B6-4	BOINK!	1	5
19	Lee Frisvold	2 stage Fat Boy	D12-0; C6-5	good flight	2	26
20	Mollie Frisvold	Skywinder	C6-3		1	9
21	Nathan Clark	Alpha	B6-4		1	5
22	Larry Schwartz	Stretch Fat Boy	D12-7		1	17
23	Tyler Thompson	Big Bertha	C6-5		1	9
24	Ed Ryan	Vertical	G38-7		1	94
25	Philip Gibbens	Star Wars	C5-3	first flight	1	9.5
26	Hugh Hansen	Nike Arrow	A10-3t		1	2.5
27	Ryan Schwartz	Helio Copter	C6-7	core sample	1	9
28	Nick Green	MK-109 Stingray	B6-4	first flight	1	5
29	Glen Overby	Aerobee 150	D15-4		1	20
30	Walter Kjellander	Intiator	F25-6	first flight	1	80
31	Brandon Green	Bullpup	B6-4	first flight	1	5
32	Kyle Green	V2	D12-5	first flight	1	17
33	Brian Fergus	Royal Naboo Starship	C6-3	1st flight, picnic prize	1	9
34	Tyler Thompson	Yellow Jacket	C6-5		1	9
35	Mike Martens	Sweet Von Braun	(2) D12-5		2	34
36	Alan Estenson	Minne-Skeeter	C6-5	good flight	1	9
37	Alexandra Estenson	Birdie	A10-3t	watch the Birdie!	1	2.5
38	Peder Thompson	Gemini DC	C6-5		1	9
39	Nathan Clark	Big Bertha	C6-5		1	9
40	Art Gibbens	Saturn V	D12-0; D12-3	impressive 2-stage flight	2	34
41	Mark Thell	AMRAAM	C6-3		1	9
42	Dave Fergus	lil' Nuke	F20-4		1	64
43	Blake Ryan	USA	A8-3		1	2.5

44	Lee Frisvold	Astrocam	C6-7	loaded with film	1	9
45	Kent Peterson	lil' Nuke	F25-9		1	80
46	Mollie Frisvold	Skywinder	C6-3		1	9
47	Alan Estenson	RQ-70	C6-5	separation - broken shock cord	1	9
48	Alexandra Estenson	Liberty	A8-3	first flight	1	2.5
49	Art Gibbens	Athena	B4-4	1st prize, picnic prize	1	5
50	Dave Fergus	Photon Disrupter	C6-5	out of production rocket	1	9
51	Andy Jirele	Strong Arm	G40-7		1	120
52	Larry Schwartz	Fat Boy	D12-5		1	17
53	Andy Forsman	AMRAAM	(2) E15-7	1st launch	2	80
54	Tony Pray	EZI-65	B80-7	1st flight, went nicely	1	120
55	Nick Green	MK-109 Stingray	B6-4		1	5
56	Brandon Green	Hawk	D12-5		1	17
57	Hugh Hansen	Razor	A8-3	first flight	1	2.5
58	Mark Thell	Astron Invader	B6-2	1st flight, old design boost glider (unstable!)	1	5
59	Kyle Green	AMRAAM	C6-5		1	9
60	Larry Schwartz	Stretch Fat Boy	D12-7		1	17
61	Dan Nestor	Mustang	F20-7	first flight	1	64
62	Walter Kjellander	IQSY Tomahawk	E15-7		1	40
63	Nathan Clark	Homemade Cloud Killer	C6-3		1	9
64	Mike Town	Skywinder	C6-7		1	9
65	Ryan Schwartz	AMRAAM	C6-7		1	9
66	Mark Thell	lil' Bigger Nuke	F23-4		1	56
67	Tim Bush	AMRAAM 2	G35-7		1	105
68	Russ Durkee	Cuda	D7	RC boost glider, good flight	1	20
69	Ed Ryan	Bat Rocket	G38-7	2nd flight	1	94
70	Mollie Frisvold	Scout	A8-3		1	2.5
71	Lee Frisvold	Comanche-3	D12-0; C6-0; C6-7	1st stage only, lawn dart (ouch)	1	17
72	Craig Hansen	Athena	C6-5		1	9
73	Stephen Schneider	E2X	B6-4		1	5
74	Gary Schneider	Goliath	C6-5		1	9
75	Art Gibbens	Really Fast Balloon	D12-7	goes way high	1	17
76	Tony Pray	Mean Machine	E30-4	good flight	1	40
77	Walter Kjellander	Initiator	G40-7		1	120
78	Lee Frisvold	Astrocam	C6-7		1	9
79	Stephen Schneider	Spitfire	C6-5		1	9
80	Craig Hansen	Astrocam	C6-7	first flight	1	9
81	Don Green	Long Shot	D12-0; C6-5	1st stage only, (ouch)	1	17
82	Steve Robb	Swinger	C6-3	boost glider	1	9
83	Glen Overby	Ohm Eater	F24-4		1	50
84	Dave Fergus	V2	D12-3	first flight	1	17
85	Tim Bush	2.3X Orbital Transport	G38-4	Please work, heads up, 1st flight (worked great!)	1	94
86	Brian Handeland	Long Shot	D12-0; C6-5		2	26
87	Philip Gibbens	Tie Fighter	C5-3		1	9.5
88	Tyler Thompson	Nova Payloader	C6-5	payloading two ants	1	9

89	Steve Robb	3FNC	H123		1	246.8
90	Joel Henry	Roane	D12-5		1	17
91	Josh Handeland	Mean Machine	D12-5		1	17
92	Dave Fergus	Boattail Fat Boy	C6-3	first flight	1	9
93	Steve Hum	Strong Arm	F52-8		1	78
94	Philip Gibbens	Scrambler	B6-4	made omelette	1	5
95	Steven Handeland	Pathfinder	D12-5	1st flight, 1 chute tangled	1	17
96	Joel Henry	Venus Probe	D21-4		1	20
97	Craig Hansen	Mongoose	C6-0; C6-7	first flight	2	18
98	Ted Cochran	LOC IV	H238	(it spins, it whistles, what more could you want?)	1	178.4
99	Kent Peterson	Vulcanite	H73		1	188.6
100	Mike Town	G-Force	G33-5	late ejection	1	100
101	Alan Estenson	Silver Comet	D12-5	good flight	1	17
102	Alexandra Estenson	Corkscrew	C6-5	good flight	1	9
103	Mark Thell	HL20	B6-2	continuing the glider tradition (non gliding), splat!	1	5
104	John Kenney	Big Daddy	D12-3	first flight	1	17
105	Steven Handeland	Fat Boy	C6-5		1	9
106	Josh Handeland	Viking	B6-4		1	5
107	Mollie Frisvold	Astrocram	C6-5	picture time again	1	9
108	Russ Durkee	Cuda	E7	RC boost glider, good flight	1	30
109	Stephen Schneider	Alpha	B6-4	separation	1	5
110	Gary Schneider	Spitfire	C6-5		1	9
111	Jacob Bopp	Zinger	A8-3	first flight	1	2.5
112	Levi Bopp	Hyper X	B6-2		1	5
113	Art Gibbens	Satelite Launcher	B8-5	no chute	1	5
114	Mollie Frisvold	Long Shot	D12-0; C6-5	no staging, lawn dart (ouch!)	1	17
115	Kyle Green	Lance	D12-5	separation	1	17
116	Ed Ryan	Bat Rocket	G35-7	tangled chute	1	105
117	Nathan Clark	Cloud Killer	C6-5		1	9
118	Mark Thell	Legacy	G35	tangled chute	1	105
119	Susan Fergus	Skywinder	C6-3	separation	1	9
120	Mike Martens	Stretch Bertha	D12-7	no chute	1	17
121	Brenda Everitt	Big Brenda	D12-7		1	17
122	Walter Kjellander	IQSY Tomahawk	G25-10		1	120
123	Kerry Hodges	R2-D2	C5-3		1	9.5
124	Anthony Griebie	Hellfire	C6-5		1	9
125	Joel Henry	Bullpup	B6-4		1	5
126	Tyler Thompson	Sizzler	C6-3	tangled chute	1	9
127	Brian Handeland	Quark	A3-4t	maiden voyage	1	2.5
128	Steve Robb	Swinger	D21-4	major shredage (wow!)	1	20
129	Dan Nestor	Initiator	F25-6		1	80
130	Tim Bush	2.3X Orbital Transport	G38-4	another great flight!	1	96
131	Kerry Hodges	Goblin	C6-5		1	9
132	Ted Cochran	Slingwing	1/2A3-2t	NARAM 42 1st place rocket	1	1.25
133	Mike Martens	F22 boost glider	C6-3		1	9

134	Alexandra Estenson	Der Big Red Max	B4-4		1	5
135	Ed Ryan	Lightning	D12-0; D12-5	stuck on rod, staged on rod, flew successfully!	2	34
136	Alan Estenson	Chaparral	F20-7		1	64
137	Brian Fergus	Goliath	C6-5		1	9
138	Ted Cochran	Ted's Testbed	(3) D12-3		3	51
139	Kerry Hodges	Gabriel	E30-4	4th launch	1	40
140	Nathan Clark	Big Bertha	C6-5		1	9
141	Anthony Griebie	Hellfire	C6-5		1	9
142	Tony Pray	Mean Machine	E30-4		1	40
143	Joel Henry	Rogue ARMYs	D12-5		1	17
144	Tim Bush	AMRAAM 2	G35-7	drag race	1	105
145	Steve Hum	AMRAAM 2	G33-7	drag race	1	100
146	Mark Thell	Lance Beta	G35-4	first flight	1	105
147	Craig Hansen	Athena	C6-5		1	9
148	Levi Bopp	Rampage	B4-4	Lego dudes in payload section	1	5
149	Garrett Elrod	Helicat	B6-4		1	5
150	Justin Elrod	Flash	B6-4		1	5
151	Steve Robb	3FNC	H242		1	246
152	Ted Cochran	lil' Nuke	G25-10	drag race, slow ignition	1	120
153	Walter Kjellander	IQSY Tomahawk	G25-10	Kent is responsible	1	120
154	Josh Handeland	Zinger	B6-4		1	5
155	Hugh Hansen	Flash	B6-4	first flight	1	5
156	Diane Handeland	Gnome	A3-4t	first flight	1	2.5
157	Alexandra Estenson	Deadly Flying Doughnut	C5-3	first flight	1	9.5
158	Steven Handeland	Fat Boy	C6-5		1	9
159	Kerry Hodges	Der Red Max	F62	2x upscale	1	80
160	Mollie Frisvold	Zenith II	C6-0; C6-5		2	18
161	Lee Frisvold	Astrocarn	C6-5	picture time again	1	9
162	Art Gibbens	Redstone	C6-5	old reliable	1	9
163	Hugh Hansen	X-Ray	A10-3t		1	2.5
164	Andy Jirele	SA-14 Archer	F62-4	1st flight, good!	1	80
165	Kent Peterson	Onyx	F22-7		1	65
166	Brian Handeland	Thunder Hawk	B6-4		1	5
167	Mollie Frisvold	Silver Comet	D12-3		1	17
168	Lee Frisvold	Big Bertha	D12-3		1	17
169	Alexandra Estenson	SCRAM	1/2A3-2t	second flight, old rocket	1	1.25
170	Ed Ryan	Lightning	D12-0; D12-5	weak D12-0	2	34
171	Alan Estenson	Big Bad Voodoo Daddy	D12-3	first flight	1	17
172	Garrett Elrod	Helicat	C6-5		1	9
173	Justin Elrod	Flash	C6-5	separation	1	9
174	Anthony Griebie	Hellfire	C6-5	fast	1	9
175	Mark Thell	Forte	G64		1	120
176	Art Gibbens	Toblerone	C5-3	"sweet"	1	9.5
177	Steve Robb	Pathfinder	D12-5	no chute	1	17
178	Mike Kutzke	Harpoon	1/2A6-4	unstable but cute	1	1.25

179	Lee Frisvold	Mollie's Rocket	C6-3		1	9
180	Lee Frisvold	Astrocarn	C6-5	picture time again	1	9
181	Hugh Hansen	X-Ray	A10-3t		1	2.5
182	Ted Cochran	Starfire	D12-7	good flight	1	17
183	Mike Kutzke	Micro V2	1/2A6-4		1	1.25
184	Philip Gibbens	Blue Bugger	A8-5		1	2.5
185	Alan Estenson	Initiator	G38-7		1	96
186	Kent Peterson	Forte	G54		1	85
187	Kerry Hodges	Yellow Jacket	G40-4	3x upscale, nice flight!	1	120
188	Mollie Frisvold	Tornado	A8-3		1	2.5
189	Alexandra Estenson	Long Shot	D12-0; C6-7	good flight	2	26
190	Garrett Elrod	Helicat	A8-3	needs more oomph!	1	2.5
191	Justin Elrod	Flash	A8-3		1	2.5
192	Andy Jirele	Strong Arm	G80-10		1	120
193	Russ Durkee	Condor	G125-5	short delay	1	117.3
194	Glen Overby	Apache	H180	altimeter, dual deployment (half of it worked)	1	236.8
195	Alan Estenson	Invader	C6-0	Great UFO drag race!	1	9
196	Alexandra Estenson	Snitch	C6-0	Great UFO drag race!	1	9
197	Russ Durkee	Quest UFO	B6-0	Great UFO drag race!	1	5
198	Brian Fergus	Snitch	C6-0	Great UFO drag race!	1	9
199	Ted Cochran	Snitch	C6-0	Great UFO drag race!	1	9
200	Steve Robb	Snitch	C6-0	Great UFO drag race!	1	9
201	Mark Thell	TRI-F.O.	C6-0	Great UFO drag race!	1	9
Total Flights: 201					216	6543.4
Total Motors: 216						
Total Impulse (N-s): 6543.4						
Average Impulse (N-s): 30.3						
Motor Distribution						
MM	0					
1/4 A	0					
1/2A	4					
A	16					
B	24					
C	76					
D	45					
E	9					
F	13					
G	24					
H	5					