

MASA launch, Blaine, July 27, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
1	Alan Estenson	Xactron Projectile	B6-4	first flight	1	5
2	John Kutzke	Snake	1/4A3-3t	first flight	1	0.63
3	Kirsten Hoyme	Polaris	B6-2	first flight	1	5
4	Ed Eastman	Nike Smoke	B6-4		1	5
5	Stuart Lenz	scratchbuilt	A8-3	first flight	1	2.5
6	Alan Estenson	EZC6-5	B4-4	tangled chute	1	5
7	Mike Kutzke	Dragon	B6-4		1	5
8	Derek Lynch	Apollo	B6-4	2 chutes	1	5
9	Alissa Hoyme	Nemesis	A8-3	first flight	1	2.5
10	Micaah Rostrom	Starhawk	A6-4		1	2.5
11	Travis Eischen	Viper	A8-3		1	2.5
12	Chad Fernandez	Skywinder	C6-3		1	9
13	Dave Lynch	Beemer	D12-3	scratchbuilt	1	17
14	Derek Lynch	Comanche-3	C6-0; C6-5	1st flight, core sample	2	18
15	Stuart Lenz	SR-98	B6-4	2nd flight	1	5
16	Dan Nolen	Venom	A8-3	Bronze parachute flight - 11 sec	1	2.5
17	Mark Thell	Astron Omega	D12-0; B6-6	clone of old Estes kit	2	22
18	David Whitaker	SR-71	C6-5	2nd flight	1	9
19	John Carlson	WAC Corporal	B6-6		1	5
20	Alan Estenson	Fat Boy	C5-3	first flight	1	9.5
21	Kirsten Hoyme	WAC Corporal	D12-7	first flight	1	17
22	Chad Fernandez	Banshee	C6-7		1	9
23	Grant Hermes	Gemini DC	B6-4	first flight	1	5
24	Craig Hansen	Pip Squeak	A8-3	first flight	1	2.5
25	Dave Lynch	Beemer	D12-3	core sample	1	17
26	Tom Lawell	Fat Boy	C6-5	wadded chute	1	9
27	Ben Oelschlaeger	Bandit	B6-6	good flight	1	5
28	Nick Oelschlaeger	Alpha 3	B6-6		1	5
29	Alissa Hoyme	Gemini DC	B6-4		1	5
30	David Whitaker	Astra	B6-6	Bronze streamer flight - separation	1	5
31	Mike Kutzke	Harpoon	D12-3		1	17
32	Ellison Lenz	Fat Boy	B6-2	drag race	1	5
33	Ellison Lenz	Mini Fat Boy	A8-3	drag race	1	2.5
34	Ellison Lenz	Super Mini Fat Boy	A10-3t	drag race	1	2.5
35	Chad Fernandez	Astrocarn	C6-7	first flight	1	9
36	Stuart Lenz	Red White & Blue	D12-3	Bronze D flight - separation	1	17
37	Dan Nolen	Viking	B6-4	Bronze parachute flight - 94 seconds!	1	5
38	Todd Carpenter	X-Wing	C6-3	"flown many times, never successful"	1	9
39	Elliot Carpenter	Fat Boy	B6-4	"holds very daring orange army-man with chute"	1	5
40	Grant Hermes	Mongoose	B6-0; B6-4	first flight	2	10
41	Chad Fernandez	Banshee	C6-7		1	9

MASA launch, Blaine, July 27, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
42	David Whitaker	Astra	B6-4	Bronze streamer flight - separation	1	5
43	Leif Eischen	Yankee	B6-6	Bronze parachute flight - 80 seconds!	1	5
44	Todd Carpenter	X-Wing	C6-5		1	9
45	David Gensler	Skywriter	B6-4	Bronze parachute flight - separation	1	5
46	Ken Hoyme	Goblin	D12-3	25 year old rocket	1	17
47	Art Gibbens	X-15	A3-4t	old rocket	1	2.5
48	Dave Lynch	Apollo	B6-4		1	5
49	John Mortensen	Mosquito	A10-3t		1	2.5
50	Art Gibbens	"Mercury Redstone"	B4-2		1	5
51	Stuart Lenz	RWB tubefin	D12-3	Bronze D flight - unstable	1	17
52	Alissa Hoyme	Alpha 3	A8-3		1	2.5
53	Todd Carpenter	SR-71	C5-3		1	9.5
54	Elliot Carpenter	Big Bertha	C6-5	yellow parachute man on board	1	9
55	Phil Gibbens	Sith Infiltrator	C5-3		1	9.5
56	David Whitaker	AMRAAM	C6-5	4th flight	1	9
57	Chad Fernandez	Astrocam	C6-7	drag race	1	9
58	Tony Fernandez	Royal Cruiser	A3-4t	1st flight - unstable	1	2.5
59	Grant Hermes	Monarch	B6-4	Bronze parachute flight	1	5
60	Art Gibbens	Satellite Launcher	C6-5		1	9
61	Phil Gibbens	Stomp	B6-4	BOINK!	1	5
62	Chad Fernandez	Banshee	C6-7	drag race, separation	1	9
63	Chad Fernandez	Astrocam	B4-4	drag race	1	5
64	Leland Cheng	Alpha	B4-4	Bronze parachute flight - 72 seconds!	1	5
65	Phil Gibbens	Scrambler	C6-3	It's full of spaceships!	1	9
66	Chad Fernandez	Outlaw	1/2A3-2t	separation	1	1.25
67	Travis Lawell	Big Daddy	D12-5		1	17
68	Leif Eischen	Big Betty	C6-5	1st flight, drag race	1	9
69	Dan Mortensen	Big Bertha	C6-7	drag race	1	9
70	Stuart Lenz	Nike Smoke	B6-4		1	5
71	Todd Carpenter	Death Star	C6-3	no chute	1	9
72	David Whitaker	Sidewinder	C5-3	separation	1	9.5
73	Glen Overby	G56B	C11-5		1	9
74	Tom Lawell	Exoskell	C6-3	drag race, alien landed on its feet	1	9
75	Grant Hermes	Mongoose	C6-3	drag race	1	9
76	Elliot Carpenter	Astrosat	C6-5		1	9
77	Chad Fernandez	Outlaw	1/2A3-2t		1	1.25
78	Collin Dudra	Mach-12	C6-3		1	9
79	Ted Cochran	Egg lofter	C5-3	Silver payload flight - egg	1	9.5
80	Ken Hoyme	Big Bertha	C6-5		1	9
81	Collin Dudra	Alpha	A8-3		1	2.5

MASA launch, Blaine, July 27, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
82	Ellison Lenz	Star Fiter	B6-2		1	5
83	Joe Schneider	Wizard	B6-4	Bronze streamer flight	1	5
84	Joe Schneider	Aztec	C6-0; C6-5	Bronze 2-stage flight	2	18
85	Russ Durkee	Cuda	D7	R/C rocket glider	1	20
86	Collin Dudra	Astra	A8-3		1	2.5
87	Craig Hansen	BOINK	C6-5		1	9
88	Hugh Hansen	BOINK	C6-5		1	9
89	David Gensler	Big Bertha	B6-2		1	5
90	Leif Eischen	Flash	B6-6	Bronze streamer flight - separation	1	5
91	Craig Hansen	BOINK	A10-3t	first flight	1	2.5
92	Collin Dudra	Mach-12	C6-3		1	9
93	David Gensler	Mach-12	C6-3	separation	1	9
94	John Carlson	V2	D12-3	1st flight, "LCO killer"	1	17
95	Kerry Hodges	Der Red Max	B6-4	clone of old Estes kit	1	5
96	Russ Durkee	Cuda	E7	R/C rocket glider	1	30
97	Collin Dudra	Spitfire	B6-4		1	5
98	John Carlson	WAC Corporal	B6-4		1	5
99	Ellison Lenz	Small Thing	A10-Pt		1	2.5
100	Joe Schneider	Wizard	B6-4	Bronze parachute flight - 77 seconds!	1	5
101	Collin Dudra	Goliath	C6-3	May launch ditch survivor	1	9
102	Neal Higgins	Black Brant	C11-5		1	9
103	Russ Durkee	Cuda	E6		1	40
104	Dan vanDyke	Ecee	A3-4t	squirrely flight - lost winglet	1	2.5
105	Nick Nolen	Alpha	A6-4		1	2.5
106	Ed Eastman	Fat Boy Cartman	B6-4		1	5
107	Alan Estenson	Super Serval	C11-5	first flight	1	9
108	Collin Dudra	Misconception	B6-4	1st flight, wadded chute	1	5
109	Micaah Rostrom	Viper	A6-4	separation & core sample	1	2.5
110	Leif Eischen	Flash	B6-6	Bronze streamer flight - 35 seconds	1	5
111	Alan Estenson	Super Duper V2	D12-3	1st flight, rod whip to short ballistic flight	1	17
112	John Mortensen	Mosquito	1/2A3-4t	first flight	1	1.25
113	Ben Oelschlaeger	Bandit	B6-4		1	5
114	Dan Mortensen	Code Red	C6-5		1	9
115	John Carlson	SPEV	(2) C6-7	good flight	2	18
116	Dan Mortensen	Black Brant	D12-5		1	17
117	Derek Lynch	Super Quark	A3-4t	1st flight, scratchbuilt	1	2.5
118	Collin Dudra	Spitfire	B6-4		1	5
119	John Carlson	Honest John	B6-4	25 year old rocket	1	5
120	Ben Oelschlaeger	Bandit	B6-4	separation	1	5
121	Alan Estenson	Super Duper Blobbo	C11-3	1st flight, low altitude	1	9
122	Alan Estenson	Blossom	D12-3	Yes, it's a V2	1	17

MASA launch, Blaine, July 27, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
123	Collin Dudra	Mach-12	C6-3		1	9
124	Travis Eischen	Tri-Star	A8-5	1st flight, drag race	1	2.5
125	Micaah Rostrom	Starhawk	A8-3	drag race, separation	1	2.5
126	Leif Eischen	Wizard	A8-5	drag race	1	2.5
127	Collin Dudra	Goliath	C6-5		1	9
128	Nick Oelschlaeger	Alpha 3	B6-4		1	5
129	Dan Mortensen	Alpha 3	C6-5	long walk!	1	9
130	Dan Mortensen	Viking	A10-3t	stripped chute	1	2.5
131	Alan Estenson	Super Duper Blobbo	D12-5	2nd flight	1	17
132	Alan Estenson	Sidewinder	D12-5	stripped chute from nose cone	1	17
133	Stuart Lenz	HL-20	A8-3		1	2.5
134	Leif Eischen	Cruise Missile	B6-4	spent a month in a tree	1	5
135	Leland Cheng	Alpha	B4-4	Bronze streamer flight - 23 seconds	1	5
136	David Whitaker	LOC Viper 3	(3) D12-5	1st flight, very nice, lit all 3	3	51
137	Leland Cheng	Strong Arm	G80-7		1	120
138	Ken Jarosch	Arreaux	E30-4	2nd flight	1	40
139	Neal Higgins	X-Calibur	H123-M	Level 1 certification flight - success!	1	246.8
140	Dan vanDyke	Upscaled Monarch	(3) E9-4	1st flight, no chute, core sample	3	88.5
141	Mike Kutzke	Blue Crystal	E9-6	good flight	1	29.5
142	Ron Hammer	Super Big Bertha	E15	good flight	1	40
143	Ken Jarosch	Initiator	F25-6	good flight	1	80
144	Ted Cochran	LOC IV	H180-M	20th flight - good	1	236.8
145	Stuart Lenz	Pokemon #2	F21-6	tangled chute	1	55
146	Leland Cheng	Honest John	E15-4	ditch landing	1	40
147	Stuart Lenz	United We Stand	(3) A8-3	1st flight, unstable, no chute	3	7.5
148	Ted Nolen	Crayola Rocket	E9-4	1st flight, slow, good	1	29.5
149	Mark Thell	Lil Bigger Nuke	F23-4	early deployment	1	56
150	Ron Hammer	PAC-3	F12-5	separation	1	45
151	Stuart Lenz	With Liberty	(3) E9-6	2nd flight, no chute	3	88.5
152	Dan vanDyke	Tiny Pterodactyl	F23	2nd flight	1	56
153	Neal Higgins	Goldmember	E9-6	unstable	1	29.5
154	Ted Cochran	Titan IIIIE	(2) C6-5	Silver scale flight - not stable	2	18
155	John Carlson	Star Blazer	G38-4	4X upscale - good flight	1	94
156	Joe Schneider	WASP	F23-4	Bronze >D flight - success	1	56
157	Glen Overby	Aerobee 350	E18-4	good flight	1	39
158	Alissa Hoyme	Mean Machine	D12-5	first flight	1	17
159	Kerry Hodges	Goblin 2X	F24-4	nice flight (on the 4th try)	1	50
160	Alan Estenson	Super Duper V2	D12-3	good flight	1	17
161	Leland Cheng	V2	F24-4		1	50
162	Dan vanDyke	Executioner	E9-4	first flight	1	29.5

MASA launch, Blaine, July 27, 2002					Total #	Total
#	Name	Rocket	Motor(s)	Comment	Motors	Impulse
163	Ted Cochran	Titan IIIE	(2) C5-3	Silver scale flight - success!	2	19
164	Glen Overby	Ugly Duckling	(3) D12-3	early deployment	3	51
165	Dan Nolen	Mean Machine	D12-3	Bronze D flight	1	17
166	Kerry Hodges	Gabriel	(2) C6-7, (1) E9-4	only lit the C6's, lawn dart then ejection	2	18
167	David Gensler	Sumo	G38-4		1	94
168	Tom Lawell	Mustang	F25-9		1	80
169	Ellison Lenz	LOC Aura	F50-6		1	80
170	Stuart Lenz	Maxi V2	F21-4		1	55
171	Ted Cochran	Saturn V	E30-4	good flight	1	40
172	Glen Overby	Nike-Ajax	F50-6	good flight	1	80
173	Kerry Hodges	Onyx Trail (PML IO)	Fxx	good flight	1	80
174	Ken Jarosch	Shadow	F24-4	good flight	1	50
175	Ted Nolen	Big Dog 2	G38-7	good flight	1	94
176	Leland Cheng	Maxi V2	F21-6	good flight	1	55
177	Alan Estenson	Maxi Searcher	D12-5	1st flight, Estes upscale, good flight	1	17
178	Larry Schwartz	BSD Horizon	G64-4	good flight	1	120
179	Alissa Hoyme	Mean Machine	D12-5	2nd flight	1	17
<b>Total Flights: 179</b>					<b>197</b>	<b>3740.48</b>
<b>Total Motors: 197</b>						
<b>Total Impulse (N-s): 3740.48</b>						
<b>Average Impulse (N-s): 19.0</b>						
<b>Motor Distribution</b>						
MM	0					
1/4 A	1					
1/2A	3					
A	28					
B	47					
C	52					
D	27					
E	17					
F	15					
G	5					
H	2					