MASA launch, Blaine, November 21, 1998			Stage 1	Stage 2	Stage 3	Total	
#	Name	Rocket	# Type	# Type	# Type	Impulse	Comment
1	Paul Larson	Mosquito	1 A10-3t			2.5	
2	Russ Durkee	Cuda	1 D7-RC			20	nice flight!
3	Joe Kimmes	?	1 C6-3			9	
4	Kent	Bertha	1 C6-5			9	
5	Mike M.	Long Shot	1 C6-5			9	
6	Katie Kutzke	?	1 B6-4			5	
7	Larry Schwartz	2-stage Fat Boy	4 C6	1 D12		53	incredible first flight, even without parachutes
8	Carl Persson	scratch built	1 D12-5			17	CATO!
9	Colin H.	Silver Comet	1 E30-4			40	
10	Christopher Kvidera	Stomp Rocket	1 A8-3			2.5	
11	Taylor	Mach 12	1 C6-5			9	
12	Brenda Everitt	Big Bertha	1 D12			17	Brenda's first flight at a MASA launch
13	D.J. Cook	?	1 C6-3			9	
14	Ted Cochran	LOC IV	1 H128-S			155.9	1332 feet, ditch damage on landing
15	Paul Larson	Mosquito	1 A10-3t			2.5	
16	Joe	Patriot	1 C6-3			9	
17	Christopher Kvidera	Mini X-Wing	1 A10-3t			2.5	
18	Kent	Fat Boy	1 C6-3			9	
19	Mike M.	Banshee	1 C6-3			9	
20	Paul Larson	Mosquito	1 A10-3t			2.5	
21	Taylor	Optima	1 D12-5			17	lawn dart!
22	Kent	Tomahawk	1 C6-3			9	
23	Mike M.	Fat Boy	1 C6-3			9	
24	Larry Schwartz	2-stage Fat Boy	4 C6	1 D12-7		53	another great flight
25	Joe	Skywinder	1 C6-3			9	
26	Ryan Schwartz	Bull Pup	1 B6-4			5	
27	Alan Estenson	Maniac	1 D12-7			17	
28	Tyler	Big Bertha	1 C6			9	first flight
29	Jackson Thatcher	Initiator	1 F20-4			64	
30	Paul Larson	Mosquito	1 A10-3t			2.5	
31	D.J. Cook	Rattler-7	1 A8-3			2.5	first flight
32	Colin	Bailout	1 C6-5			9	
33	Russ Durkee	V2	1 C6-5			9	small, heavy V2 - marginally stable
34	Joe	Delta Clipper	1 D12-7			17	first flight
35	Larry Schwartz	Fat Boy	1 D12-7			17	ok
36	Kent	Bull Pup	1 B6-4			5	good
37	Seth Cochran	Nike-K	1 C6-5			9	nice
38	Ryan Schwartz	Bull Pup	1 B6-4			5	no chute
39	Mike M.	Sidewinder	1 D12-5			17	modified & resurrected, it had a good flight
40	Tyler	Truncated Bertha	1 B4-2			5	success
41	Paul Larson	Mosquito	1 A10-3t			2.5	whoosh-pop!
42	Seth Cochran	Fat Boy	1 C5-3			9.5	nice first flight
43	Taylor	Bailout	1 C6-5			9	unstable!
44	D.J. Cook	Banshee	1 C6-3			9	nice flight, long walk
45	Colin	Optima	1 D12-5			17	
46	Ryan Schwartz	Bull Pup	1 A8-3			2.5	
47	Mike M.	Stretched Big Bertha	1 D12-5			17	nice
48	Christopher Kvidera	Initiator	1 G35-4			105	APS camera payload
49	Jackson Thatcher	Initiator	1 G80-7			120	nice flight, but a long walk
50	Kent	Alpha	1 B8-5			5	nice
51	Larry Schwartz	MK-109	1 A8-3			2.5	nice
52	Ryan Schwartz	Bull Pup	1 A8-3			2.5	
53	Mark & Russ	Mutant Bertha	4 C6			36	amazing first flight, slight coning
54	Joe Gonier	Initiator	1 E30-4			40	
55	Tyler	Short Bertha	1 B6-4			5	
56	Larry Schwartz	Tomcat	1 C6-3			9	
57	Ryan Schwartz	MK-109	1 C6-5			9	
58	Larry Schwartz	Bull Pup	1 C6-5			9	
59	Christopher Kvidera	Shadow	1 E11-3			35	lawn dart!
60	Tyler	Big Bertha	1 C6-5			9	
61	Damian Kostron	R/C Shuttle Prototype	1 D11-P			18	unstable due to battery pack coming loose at liftoff
62	Ted Cochran	Silver Comet	1 F32-5			80	went a long way downrange
63	Larry Schwartz	Tomcat	1 C6-3			9	
64	Kent	Initiator	1 F25-6			80	went a long way downwind
65	D.J. Cook	Corkscrew	1 C6-3			9	
66	Mike M.	Long Shot	1 D12-0	1 C6-7		26	
67	Michael Maurer	Goliath	1 C6-5			9	
68	Joe Kimmes	Mongoose	1 A8-3			2.5	
69	Larry Schwartz	Fat Boy	1 D12-7			17	
70	Ryan Schwartz	MK-109	1 A8-3			2.5	
71	Mike Martens	Stomp Rocket	1 A8-3			2.5	
72	Alan Estenson	Der BIG Red Max	1 H180-M			212.2	core sample, but it will fly again!
		Motor total by stage:	**81**	**3**	**0**		

Total Flights:	**72**	
Total Motors:	**84**	
Total Impulse (N-s):	**1603.6**	(Small "K" equivalent !)
Average Impulse (N-s):	**19.1**	("D" equivalent)
Motor Distribution		

1/4 A	
1/2A	
A	14
B	7
C	38
D	15
E	3
F	3
G	2
H	2