

MASA launch, Elk River VFW, November 21, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
1	Brown, Alex	Blastoff	1/2A6-2		1	1.25
2	Brown, Luke	Alpha 3	B6-4		1	5
3	Brown, Thomas	Sport Blastoff	A8-3		1	2.5
4	Cochran, Ted	Ring Fin	B6-4	good flight	1	5
5	Cochran, Ted	Laser X	B4-4	good flight	1	5
6	Cochran, Ted	3FNC	C6-3	good flight	1	9
7	Cochran, Ted	Big Bertha	B6-4	good flight	1	5
8	Estenson, Alan	Sky Hook	1/2A3-2t	good flight	1	1.25
9	Estenson, Alan	MASA SPEV Saucer	C6-0	unstable, with "gum camera"	1	9
10	Estenson, Alan	Golly	1/4A3-3t	good flight	1	0.63
11	Estenson, Alan	Razor	B6-4	good flight	1	5
12	Estenson, Alan	Aerobee Hi	A8-5	unstable - unknown & perplexing event?	1	2.5
13	Estenson, Alan	Wicked Winnie	C6-3	good flight	1	9
14	Estenson, Alan	Hercules	B6-4	good flight	1	5
15	Estenson, Alan	Fat Boy	C11-3	CATO!, with "gum camera"	1	9
16	Estenson, Alan	Warrior 56	C6-3	good flight	1	9
17	Estenson, Alan	Fat Boy	C11-3	another CATO!, with "gum camera"	1	9
18	Estenson, Alan	Fat Boy	D12-5	with "gum camera"	1	17
19	Estenson, Alan	Sidewinder	D12-5	with "gum camera"	1	17
20	Estenson, Alan	Fat Boy	D12-5	with "gum camera"	1	17
21	Estenson, Alan	Big Bertha	B4-2	with "gum camera"	1	5
22	Estenson, Alan	Fat Boy	D12-5	with "gum camera"	1	17
23	Estenson, Alan	Screaming Yellow Zonker	E9-6	with "gum camera"	1	28.5
24	Heren, Andy	Ring of Fire	1/2A6-2	good flight	1	1.25
25	Heren, Andy	Baby Bertha	B4-4	good flight	1	5
26	Heren, Andy	Der Red Max	C6-5	good flight	1	9
27	Heren, Andy	Big Bertha	B6-4	good flight	1	5
28	Heren, Andy	Barracuda	B6-4	good flight	1	5
29	Heren, Andy	Explorer 2000	A8-3	"has been built since 2000, painted in 2009"	1	2.5
30	Heren, Andy	Nano	1/2A6-2	good flight	1	1.25
31	Heren, Andy	EZI-65 (mini)	B4-4	"Summer picnic door prize"	1	5
32	Heren, Andy	Avalear	1/2A6-2	good flight	1	1.25
33	Heren, Andy	Tornado	1/2A6-2	good flight	1	1.25
34	Heren, Andy	Lil' Ivan	B6-4	good flight	1	5
35	Higgins, Neal	Grappler	C6-7		1	9
36	Higgins, Neal	Purple Haze	C6-7		1	9
37	Higgins, Neal	Land Viper	(3) A8-5		3	7.5
38	Higgins, Neal	Sputnik	C6-0		1	9
39	Higgins, Neal	Corkscrew	C6-5		1	9
40	Higgins, Neal	Supershot	C6-5		1	9
41	Higgins, Neal	Starburst	D21-7		1	20
42	Jarosch, Ken	CiCi	B6-2		1	5

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43	Jarosch, Ken	Tinee	A10-3t		1	2.5
44	Jarosch, Ken	Snow Flake	C6-3		1	9
45	Jarosch, Ken	Rose-A-Roc	A8-3		1	2.5
46	Jarosch, Ken	SpaceShipEarth	E11-0		1	31.7
47	Jarosch, Ken	29mm Stars & Stripes	G76-0		1	115
48	Jarosch, Ken	Goony One	B6-4		1	5
49	Jarosch, Ken	Goony Ghost	B6-4		1	5
50	Jarosch, Ken	Patriot	C11-3		1	9
51	Jarosch, Ken	E	A3-4t		1	2.5
52	Jarosch, Paul	Big Daddy Lifter	D12-5, (2) A10-Pt		3	22
53	Jarosch, Paul	SR-71e	D12-3, (2) A10-Pt		3	22
54	Jarosch, Paul	CATO	C6-0		1	9
55	Jarosch, Paul	Orange + Black	C6-0; A8-3		2	11.5
56	Jarosch, Paul	Don't remember...	D12-3		1	17
57	Jarosch, Paul	Plastique BOINK	A8-3		1	2.5
58	Jarosch, Paul	Plastique BOINK	B6-4		1	5
59	Jarosch, Paul	Plastique BOINK	C6-3		1	9
60	Jarosch, Paul	Astron Cobra	(3) C6-5		3	27
61	Jarosch, Paul	Patriot	B6-4		1	5
62	Jarosch, Paul	Tornado	A8-3		1	2.5
63	Jarosch, Paul	White Spool	C11-3		1	9
64	McDermott, Buzz	Gooney Santa	B6-4		1	5
65	McDermott, Buzz	Pip Squeak	B6-4		1	5
66	McDermott, Buzz	Six Pack	D12-5		1	17
67	Moyle, Bob	Black Mustang	F22-7	no eject = CRUNCH!	1	65
68	Moyle, Bob	White Hornet	D12-7		1	17
69	Overby, Glen	Nike-ASP	D12-3		1	17
70	Overby, Glen	Aerobee 300A	D12-3		1	17
71	Overby, Glen	Ringer	B6-0; B6-7		2	10
72	Overby, Glen	3FNC	D21-7		1	20
73	Overby, Glen	Sandia Tomahawk	E18-4		1	39
74	Schaffhausen, Dave	Liquidator	D12-5	good flight	1	17
75	Schaffhausen, Dave	Blue Devil	E9-6	good flight	1	28.5
76	Schaffhausen, Dave	Ghost of War	E9-6	good flight	1	28.5
77	Schaffhausen, Dave	Rubicon	E9-6	good flight	1	28.5
78	Shmel, Dwayne	Bullpup	B6-4		1	5
79	Shmel, Dwayne	Der Rock Max	B6-4		1	5
80	Shmel, Dwayne	V2	E11-3	early deployment, separation	1	31.7
81	Shmel, Dwayne	Rock-It	E9-6		1	28.5
82	Shmel, Dwayne	Launchable	B6-6		1	5
83	Shmel, Dwayne	Stormcaster	D12-5		1	17

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84	Taylor, Jeff	Fat Boy	C6-3	good flight	1	9
85	Taylor, Jeff	Lil' Ivan	A8-3	good flight	1	2.5
86	Taylor, Jeff	Zenit	1/2A3-4t	good flight	1	1.25
87	Taylor, Jeff	Meteor Masher	C6-3	good flight	1	9
88	Taylor, Jeff	Big Bertha	B6-4	good flight	1	5
89	Taylor, Jeff	Renegade	C6-5	good flight	1	9
90	Taylor, Jeff	Harpoon	C6-3	good flight	1	9
91	Taylor, Jeff	Porta Pot Shot	C6-3	good flight	1	9
92	Taylor, Jeff	Sizzler	A8-3	separation	1	2.5
93	Taylor, Jeff	Deuces Wild	(2) A8-3	good flight	2	5
Total Flights: 93					104	1104.28

Total Motors: 104
Total Impulse (N-s): 1104.28
Average Impulse (N-s): 10.6

Motor Distribution	
MM	0
1/4 A	1
1/2 A	7
A	20
B	25
C	26
D	15
E	8
F	1
G	1
H	0
I	0
J	0

