

MASA launch, Nowthen, September 26, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
1	Anderson, Hunter	Rubicon	D12-3	good flight	1	17
2	Anderson, Hunter	Bullpup	C6-7		1	9
3	Anderson, Hunter	Rock-It	D12-3		1	17
4	Anderson, Hunter	Der Red Max	C6-3	good flight	1	9
5	Anderson, Hunter	Echo Star	C6-5	separation	1	9
6	Anderson, Kevin	Canadian Arrow	E9-4	good flight	1	28.5
7	Anderson, Kevin	Star Trek	C6-7	35 year old rocket	1	9
8	Anderson, Kevin	Starchaser	F50-6	good flight	1	80
9	Anderson, Kevin	Expediter	H120		1	261
10	Anderson, Levi	Patriot	C6-3	good flight	1	9
11	Betker, Ben	Big Bertha	C6-5	drag race with Mark	1	9
12	Betker, Ben	Fat Boy	C6-3		1	9
13	Betker, Ben	Big Daddy	D12-5		1	17
14	Betker, Ben	Menace	C6-5		1	9
15	Betker, Ben	Screamin' Mimi	C11-3	good flight	1	9
16	Betker, Ben	Baby Bertha	C6-3	good flight	1	9
17	Betker, Ben	Python 4	C6-5	separation	1	9
18	Betker, Ben	Eagle	A8-3	late ejection, lawn dart	1	2.5
19	Betker, Ben	Screamin' Mimi	D12-5		1	17
20	Betker, Ben	Eagle	B6-2	unstable	1	5
21	Becker, Jo	Monarch	C6	first flight	1	9
22	Becker, Jo	Bigger Bertha	C6		1	9
23	Becker, Jo	Mean Machine	D12-5	good flight	1	17
24	Becker, Jo	Mean Machine	D12-5	encore performance!	1	17
25	Becker, Jo	G-Willy	G64-7	good flight	1	120
26	Becker, Jo	G-Force-2	G76-4	good flight	1	115
27	Boe, Caleb	FAI Helicopter	A3-4t		1	2.5
28	Boe, Caleb	P-Chuter X-treme	F52-8		1	78
29	Boe, Daniel	SLS Sky Hook	C11-5	first flight	1	9
30	Boe, Daniel	Deuces Wild	(2) B6-4	drag race	2	10
31	Boe, Joshua	Monarch	B6-4	good flight	1	5
32	Boe, Joshua	Duracell	B6-4	good flight	1	5
33	Carpenter, Todd	Tethys	H242-M	L1 cert flight - SUCCESS!	1	232
34	Carpenter, Todd	Fric n Frac	B6-0; C6-0	good flight	2	14
35	Carpenter, Todd	Screamin' Mimi	E28-7		1	40
36	Carpenter, Todd	Baby Booster	C6-3	impact on edge of drainage ditch	1	9
37	Carroll, Tim	Bulldog	B6-4	good flight	1	5
38	Carroll, Tim	Bulldog	C6-5	good flight	1	9
39	Carroll, Tim	Bandit	B6-4	1977 Anoka County Fair 4-H blue ribbon winner!	1	5
40	Carroll, Tim	Bandit	C6-5	good flight	1	9
41	Carroll, Tim	Bulldog	C6-5		1	9
42	Cochran, Ted	Enraged	(2) C6-5, C6-7, (4) A10-Pt	lit all but the C6-7, good flight	6	28

MASA launch, Nowthen, September 26, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
43	Cochran, Ted	Ranger	(3) B6-4	core sample, lit 2	2	10
44	Cochran, Ted	Deuces Wild	(2) C6-3	drag race	2	18
45	Cochran, Ted	PSR 1824	(4) A8-3, D12-5	good flight	5	27
46	Cochran, Ted	Ted's Testbed	(2) D12-3, D12-5	good flight	3	51
47	Colt, Jason	MiMi's Arrow	B4-4	first flight	1	5
48	Colt, Jason	Fastest Ball of Twine	D12-3	...in Minnesota! Separation	1	17
49	Colt, Jason	Hi Flier	C6-7	good flight	1	9
50	Colt, Jason	Vega	C6-7	good flight	1	9
51	Colt, Jason	Vindicator 2.0	D12-3	good flight	1	17
52	Colt, Jason	Nemesis	C6-7	good flight	1	9
53	Colt, Jason	April Dancer	B6-4		1	5
54	Estenson, Alan	I-roc	J420-M	"wheeee!", good flight	1	658
55	Estenson, Alan	Tube-ces Wild	(2) C6-5	drag race	2	18
56	Estenson, Alan	Back to Cool	F21-8	good flight	1	55
57	Estenson, Alan	Super Duper V2	D12-5	good flight	1	17
58	Estenson, Alan	Goliath	(3) C6-7	good flight	3	27
59	Gleason, Scott	Phoenix	D12-5	good flight	1	17
60	Gleason, Scott	Starliner	B6-4	good flight	1	5
61	Gleason, Scott	Deuces Wild	(2) B6-4	drag race	2	10
62	Gleason, Scott	74 E cubed	(2) D12-5		2	34
63	Gleason, Scott	Fric n Frac	C6-0; C6-0	arc, upper stage impact under power	2	18
64	Hastings, Daniel	OM-1	B6-4	first flight	1	5
65	Hastings, Daniel	OM-1	C6-5	good flight	1	9
66	Hastings, Daniel	Hyper-S	(4) A10-3t	good flight	4	10
67	Higgins, Neal	Black Brant	C11-7		1	9
68	Higgins, Neal	Mr Spudnik	E30-4	no chute, lawn "dart"	1	40
69	Higgins, Neal	Little Wild Thing	D13-4	good flight	1	20
70	Higgins, Neal	Totally Tubular	F12-5	lawn dart	1	45
71	Higgins, Neal	Big Bad Voodoo Daddy	G77-10	no eject, lawn dart (mid-air CATO, spit nozzle)	1	105
72	Higgins, Neal	APU	G54-10	good flight	1	85
73	Higgins, Neal	Twister	A8-5	good flight	1	2.5
74	Higgins, Neal	Spitfire	D12-3		1	17
75	Higgins, Neal	Starburst	D13-4	lawn dart	1	20
76	Hoyme, Alissa	Nantucket Sound	C11-3	good flight	1	9
77	Hoyme, Alissa	Adfecta	C11-3		1	9
78	Hoyme, Alissa	Mini Mars Lander	A10-3t	good flight	1	2.5
79	Hoyme, Ken	Mini Bertha	1/2A3-2t	36 year old rocket	1	1.25
80	Hoyme, Ken	ACME Spitfire	C11-3	first flight	1	9
81	Hoyme, Ken	Tres	(3) C6-5	drag race	3	27
82	Hoyme, Ken	Cheetah	F20-7	first flight	1	64
83	Kilberg, Brian	LOC IV	H123-M		1	224

MASA launch, Nowthen, September 26, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
84	Kilberg, Brian	Cirrus	F23-7	lawn dart	1	56
85	Kilberg, Don	Mini Magg w/ payload	I211	good flight	1	442
86	Lenz, Stuart	Excaliber?	C6-3	tangled chute	1	9
87	Lenz, Stuart	Andomeda	Micro Maxx		1	0.3
88	Lenz, Stuart	Ranger	(3) A8-3		3	7.5
89	Lenz, Stuart	Nova 3	C6-5	good flight	1	9
90	Lenz, Stuart	SS Cassiopeia	Micro Maxx	good flight	1	0.3
91	Lenz, Stuart	Alien Explorer	Micro Maxx	lawn dart	1	0.3
92	Lenz, Stuart	SS Cassiopeia	C6-3	good flight	1	9
93	Lenz, Stuart	Dragon Ship 7	C6-3	good flight	1	9
94	Lenz, Stuart	Stomp	A8-3	good flight	1	2.5
95	Lenz, Stuart	Vega	C6-3	good flight	1	9
96	Lenz, Stuart	Alien 8	C6-3		1	9
97	Lenz, Stuart	Negade	(2) C6-5		2	18
98	Lenz, Stuart	Pokemon 2	F21-6		1	55
99	Lenz, Stuart	Phoenix	D12-3	good flight	1	17
100	Lenz, Stuart	Silver Comet	D12-3	good flight	1	17
101	Lenz, Stuart	Spool	A8-3		1	2.5
102	Lenz, Stuart	MASA Patriot	C6-5		1	9
103	Lenz, Stuart	Baby Bertha	B6-4		1	5
104	Merdan, Lyle	Deuces Wild	(2) C6-3	drag race	2	18
105	Merdan, Lyle	Big Nuke	A8-3		1	2.5
106	Merdan, Lyle	Defender	(3) B6-4	good flight	3	15
107	Merdan, Lyle	Tres	(3) B6-4	good flight	3	15
108	Merdan, Lyle	MASA L1 Fast Build	G115-5	short delay, separation	1	141
109	Merdan, Lyle	Zenit	1/2A3-4t		1	1.25
110	Moyle, Bob	CiCi 2-stage	B6-0; 1/2A6-2	top stage lawn dart	2	6.25
111	Moyle, Bob	CiCi 2-stage	B6-0; 1/2A6-2	2nd flight	2	6.25
112	Moyle, Bob	CiCi 2-stage	B6-0; 1/2A6-2	3rd flight	2	6.25
113	Moyle, Bob	2X Twister	C11-5		1	9
114	Moyle, Bob	Black Mustang	E15-7	first flight	1	40
115	Moyle, Bob	Black Mustang	E15-7		1	40
116	Moyle, Bob	Black Mustang	E30-7		1	40
117	Olive, Floyd	Orange Crush	B6-4	good flight	1	5
118	Olive, Floyd	Blue Meanie	B6-4	good flight	1	5
119	Olive, Floyd	Little Blue	A8-3		1	2.5
120	Overby, Glen	Divide By Zero	E28-7	good flight	1	40
121	Overby, Glen	Clusters are Fun!	(3) D12-5	good flight	3	51
122	Overby, Glen	Sandhawk	(3) C6-5		3	27
123	Overby, Glen	No Laughing Matter	I146	hybrid	1	519
124	Overby, Glen	IQSY Tomahawk	G77-M	separation	1	105

MASA launch, Nowthen, September 26, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
125	Roloff, Tyler	Tri-Star	1/2A6-2		1	1.25
126	Roloff, Tyler	Tri-Star	1/2A6-2	separation	1	1.25
127	Roloff, Tyler	Tri-Star	1/2A6-2		1	1.25
128	Roloff, Tyler	Tri-Star	1/2A6-2		1	1.25
129	Roloff, Tyler	Tri-Star	C6-5	good flight	1	9
130	Schaffhausen, Dave	Ghost of War	E9-6	good flight	1	28.5
131	Schaffhausen, Dave	Thunderstar	(2) C6-5	good flight	2	18
132	Schaffhausen, Dave	Mustang	E9-6		1	28.5
133	Schaffhausen, Dave	Deuces Wild	(2) B6-4	drag race	2	10
134	Schaffhausen, Dave	Stinger	(3) E9-6	only lit 1	1	28.5
135	Schaffhausen, Dave	You Keep the Change	G64-4	good flight	1	120
136	Taylor, Jeff	Big Daddy	E28-7	good flight	1	40
137	Taylor, Jeff	Kitbash	D12-3		1	17
138	Taylor, Jeff	Deuces Wild	(2) C6-5	drag race	2	18
139	Taylor, Jeff	Tres	(3) C6-5	drag race	3	27
140	Thell, Mark	Big Bertha	C6-5	drag race with Ben	1	9
141	Thell, Mark	Iris	B6-4		1	5
142	Thell, Mark	Navaho	C6-7		1	9
143	Thell, Mark	Tube Thingy	B6-4		1	5
144	Thell, Mark	Deltie-B	A8-3	pod separation	1	2.5
145	Thell, Mark	Constellation	B6-4		1	5
146	Thell, Mark	A20 Demon	C11-3	30+ year old rocket	1	9
147	Thell, Mark	SLS Hustler	E9-4	good flight	1	28.5
148	Thell, Mark	Screaming Black Meanie	C11-3	first flight	1	9
149	Thell, Mark	Washiegei Camera Rocket	F42-8	video rocket	1	53
150	Thell, Mark	Tres	(3) C6-5	good flight	3	27
151	Thell, Mark	Black Brant VB	G80-7	CATO on pad, spit nozzle	1	137
152	Vatsaas, Rick	Snipe Hunter	C6-3		1	9
153	Vatsaas, Rick	Gundermanian Hyperbolic	F23-7	first flight	1	56
154	Vatsaas, Rick	Skowt	D12-5	good flight	1	17
155	Vatsaas, Rick	Tycho Express	D12-5	good flight	1	17
156	Vatsaas, Rick	Snipe Hunter	C6-3	rod locked	1	9
157	Vatsaas, Rick	Snipe Hunter	C6-3	good flight	1	9
158	Vatsaas, Rick	Skowt	D12-5		1	17
159	Vatsaas, Rick	Tycho Express	D12-5		1	17
160	Vatsaas, Rick	Shaken Not Stirred	D12-0	good flight	1	17
161	Vatsaas, Rick	Snipe Hunter	C6-5	spun on launch rod, hit ground	1	9
162	Vatsaas, Rick	Skowt	D12-5		1	17
163	Weismann, Charles	Tri-Star	A8-3	good flight	1	2.5
164	Weismann, Charles	Interceptor	A8-3	20' altitude with full recovery	1	2.5
165	Weismann, Charles	The Cheat	A8-3	good flight	1	2.5

MASA launch, Nowthen, September 26, 2009					Total #	Total
#	Flyer's Name	Rocket's Name	Motor(s)	Comments	Motors	Impulse
166	Weismann, Charles	Penknife	A8-3		1	2.5
167	Weismann, Charles	Homestar Runner	C6-3		1	9
168	Weismann, Charles	Tri-Star	A8-3	good flight	1	2.5
169	Weismann, Henry	Homestar Runner	C6-5	good flight	1	9
170	Weismann, Henry	The Henry Rocket	B6-4	good flight	1	5
171	Weismann, Henry	Little H	B6-4	good flight	1	5
172	Weismann, Henry	Tri-Star	B6-4		1	5
173	Weismann, Henry	Little H	C6-5	good flight	1	9
174	Weismann, Joe	Blue Meanie	B6-4	first flight	1	5
175	Weismann, Joe	SDI	B6-4	separation	1	5
176	Weismann, Joe	Omega	D12-0; C11-3	did not stage, lawn dart	1	17
177	Weismann, Joe	Mondrian Grasshopper	A8-3	first flight	1	2.5
178	Weismann, Joe	Orbital Transport	B6-4	30+ year old rocket	1	5
179	Weismann Boys	Homestar Runner	C6-5		1	9
180	Weismann Grandpa	AMRAAM	C6-5	good flight	1	9
181	Whitaker, David	Norad Pro Maxx	H78	hybrid	1	173
182	Whitaker, David	ASRAAM	(2) D12-5		2	34
183	Whitaker, David	Black Brant X	F27-4	good flight	1	50
184	Whitaker, David	Super Sprite	E9-4		1	28.5
Total Flights: 184					233	6066.15

Total Motors: 233
Total Impulse (N-s): 6066.15
Average Impulse (N-s): 26.0

Motor Distribution	
MM	3
1/4 A	0
1/2 A	9
A	30
B	39
C	80
D	34
E	13
F	10
G	8
H	4
I	2
J	1

