

LAUNCH SUMMARY

total number of flights	130
total number of low power flights	85
total number of HPRLite flights	19
total number of high power flights	26
total single stage flights	119
total cluster flights	7
total multiple stage flights	4
total cluster/staged flights	0
total number of motors expended	149
total impulse expended	19301.2
total number of flyers	66
number of states represented	2
States TX, UK	

flight class		flights
U	0.000-0.000 Ns	0
1/8A	0.001-0.312 Ns	0
1/4A	0.312-0.625 Ns	0
1/2A	0.625-1.250 Ns	0
A	1.250-2.500 Ns	42
B	2.500-5.000 Ns	24
C	5-10 Ns	11
D	10-20 Ns	5
E	20-40 Ns	3
F	40-80 Ns	12
G	80-160 Ns	8
H	160-320 Ns	8
I	320-640 Ns	13
J	640-1280 Ns	2
K	1280-2560 Ns	1
L	2560-5120 Ns	0
M	5120-10240 Ns	1
N	10240-20480 Ns	0
O	20480-40960 Ns	0
totals		130

Top Ten Individual Flyers		number of flights
1.	Lowell Lafreniere	9
2.	Steve Pierce	6
3.	Jacob Mehr	6
4.	Ashton Woods	5
5.	Adam	4
6.	Johnson MS	4
7.	John Dyer	4
8.	David Schultz	4
9.	David Eaton	3
10.	Robert Hagen	3

LAUNCH SUMMARY

Top Ten All-Around Flyers (individual + team)		number of flights
1.	Lowell Lafreniere	9
2.	Steve Pierce	6
3.	Jacob Mehr	6
4.	Ashton Woods	5
5.	Adam	4
6.	Johnson MS	4
7.	John Dyer	4
8.	David Schultz	4
9.	David Eaton	3
10.	Robert Hagen	3

Top Ten Motor Users		number of motors
1.	Johnson MS	12
2.	Lowell Lafreniere	10
3.	Steve Pierce	9
4.	TARC	6
5.	Jacob Mehr	6
6.	Ashton Woods	5
7.	Adam	4
8.	Casey Bender	4
9.	John Dyer	4
10.	David Schultz	4

Top Ten Total Impulse Users		Tot Imp, N-s
1.	George Sprague	6132.0
2.	Loren Walden	2690.1
3.	Jacob Mehr	1079.0
4.	Robert Hagen	1004.7
5.	Chris Bender	981.6
6.	Chuck Crabb	737.5
7.	Jeff Schwab	703.2
8.	Nikolas	702.3
9.	Michael Kneen	588.2
10.	David Smith	579.2

MOTOR USAGE

motor	type	TotImp (N-s)	prop wt (g)	single stage	cluster power	staged power	cluster staged	total usage
ES A10T	13mm SU	2.5	3.8	2	0	0	0	2
QU A6	18mm SU	2.5	3.5	2	0	0	0	2
ES A8	18mm SU	2.5	3.3	38	0	2	0	40
ES B4	18mm SU	5.0	6.0	3	0	0	0	3
ES B6	18mm SU	5.0	5.6	20	0	0	0	20
QU B6	18mm SU	5.0	6.5	1	0	0	0	1
ES C11	24mm SU	8.8	12.0	0	0	1	0	1
ES C6	18mm SU	9.0	10.8	11	3	1	0	15
AT D10	18mm SU	18.8	9.8	1	0	0	0	1
ES D12	24mm SU	17.0	21.1	3	18	1	0	22
ES E12	24mm SU	27.2	31.8	1	0	0	0	1
ES E16	29mm SU	33.4	40.0	0	0	2	0	2
AT F12J	24mm SU	43.2	30.3	1	0	0	0	1
ES F15	29mm SU	49.6	60.0	3	0	2	0	5
AT F39T	24mm RL	50.0	22.7	1	0	0	0	1
AT F42	29mm SU	52.9	27.0	1	0	0	0	1
AT G125	29mm SU	128.0	59.6	1	0	0	0	1
AT G40W	29mm SU	114.1	55.1	2	0	0	0	2
AT G53	29mm RL	90.9	60.0	1	0	0	0	1
AT G64W	29mm RL	118.8	62.5	1	0	0	0	1
AT G80T	29mm SU	116.0	56.9	1	0	0	0	1
AT H123W	38mm RL	213.5	125.0	1	0	0	0	1
AT H135	29mm SU	225.8	82.0	2	0	0	0	2
LK H144	38mm RL	239.2	126.0	1	0	0	0	1
AT H165	29mm RL	165.0	90.0	1	0	0	0	1
AT H45	38mm SU	289.0	197.4	1	0	0	0	1
AT H97J	29mm RL	169.0	140.9	2	0	0	0	2
AT I140T	54mm SU	579.2	327.2	6	0	0	0	6
AT I161W	38mm RL	329.2	187.5	3	0	0	0	3
AT I284W	38mm RL	552.0	312.5	1	0	0	0	1
AT I357T	38mm RL	342.5	166.2	1	0	0	0	1
AT I500	38mm SU	620.0	312.0	1	0	0	0	1
AT I65W	54mm SU	636.1	369.7	1	0	0	0	1
AT J425	38mm SU	676.0	364.0	1	0	0	0	1
AT J460T	54mm RL	812.6	390.2	1	0	0	0	1
AT K535	54mm SU	1434.0	745.0	1	0	0	0	1
CTI M1810	75mm RL	6132.0	3196.0	1	0	0	0	1
totals		19301.2		119	21	9	0	149

number of different motor types = 37

TOTAL FLIGHT SUMMARY

Rocketeer	Home Town	state	motor usage		model power		HPRlite		HPR		indiv total	team total
			Num	TotImp	ind	tm	ind	tm	ind	tm		
Adam	McKinney	TX	4	12.5	4	0	0	0	0	0	4	0
Aidan	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Bryan	McKinney	TX	2	5.0	2	0	0	0	0	0	2	0
Evelyn	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
Gavin	Fort Worth	TX	1	17.0	1	0	0	0	0	0	1	0
Jacob		TX	2	18.0	2	0	0	0	0	0	2	0
Jacob	McKinney	TX	1	5.0	1	0	0	0	0	0	1	0
Jake	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Jude	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Melissa		TX	1	289.0	0	0	0	0	1	0	1	0
Nico	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Niko	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Nikolas	Frisco	TX	3	702.3	2	0	0	0	1	0	3	0
Noah	McKinney	TX	2	10.0	2	0	0	0	0	0	2	0
Randy	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
Steve		TX	1	552.0	0	0	0	0	1	0	1	0
TARC	McKinney	TX	6	102.0	2	0	0	0	0	0	2	0
Tanner	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
Taran	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Vaughn	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Tony Baltay	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Casey Bender	Garland	TX	4	70.2	2	0	0	0	0	0	2	0
Chris Bender	Garland	TX	2	981.6	0	0	0	0	2	0	2	0
Bailey Bleigh	Grapevine	TX	1	213.5	0	0	0	0	1	0	1	0
Ryan Chen	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Chuck Crabb	Flower Mound	TX	3	737.5	0	0	0	0	3	0	3	0
Aidan Davis	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
John Dyer	Dallas	TX	4	388.8	3	0	0	0	1	0	4	0
David Eaton	McKinney	TX	3	10.0	3	0	0	0	0	0	3	0
Ethan Ferguson	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
Lisanne Frewin	Andover	UK	1	2.5	1	0	0	0	0	0	1	0
Evelyn Guthrie	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Tanner Guthrie	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Robert Hagen	Rhome	TX	4	1004.7	1	0	0	0	2	0	3	0
Joshua Hunter	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Jacob Huntley	McKinney	TX	2	5.0	2	0	0	0	0	0	2	0
Joshua Huntley	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Griffin K	McKinney	TX	1	5.0	1	0	0	0	0	0	1	0
Oliver K	Melissa	TX	2	7.5	2	0	0	0	0	0	2	0
Griffin K.	Melissa	TX	1	2.5	1	0	0	0	0	0	1	0
Aidan Kennedy	McKinney	TX	2	5.0	2	0	0	0	0	0	2	0
Oliver Kerlinski	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Tom Knapp	Bedford	TX	2	167.0	2	0	0	0	0	0	2	0
John Kneen	Plano	TX	1	579.2	0	0	0	0	1	0	1	0
Melanie Kneen	Plano	TX	2	14.0	2	0	0	0	0	0	2	0
Michael Kneen	Plano	TX	2	588.2	1	0	0	0	1	0	2	0
Lowell Lafreniere	McKinney	TX	10	172.7	9	0	0	0	0	0	9	0
Johnson MS	McKinney	TX	12	204.0	4	0	0	0	0	0	4	0
Brad McPeak	McKinney	TX	1	225.8	0	0	0	0	1	0	1	0
Jacob Mehr	Dallas	TX	6	1079.0	3	0	0	0	3	0	6	0
Mark Nance	Naples	TX	1	165.0	0	0	0	0	1	0	1	0
Steve Pierce	Aubrey	TX	9	241.5	6	0	0	0	0	0	6	0
Casey Riggs	McKinney	TX	2	5.0	2	0	0	0	0	0	2	0
David Schultz	Arlington	TX	4	467.5	3	0	0	0	1	0	4	0
Jeff Schwab	Plano	TX	2	703.2	1	0	0	0	1	0	2	0
David Smith	Allen	TX	1	579.2	0	0	0	0	1	0	1	0
George Sprague	Mesquite	TX	1	6132.0	0	0	0	0	1	0	1	0
Nick Viggiano	Dallas	TX	1	5.0	1	0	0	0	0	0	1	0
Mason W.	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0

TOTAL FLIGHT SUMMARY

Rocketeer	Home Town	state	motor usage		model power		HPRlite		HPR		indiv total	team total
			Num	TotImp	ind	tm	ind	tm	ind	tm		
Loren Walden	Fort Worth	TX	3	2690.1	0	0	0	0	3	0	3	0
Randy Wallace	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Emily Weadock	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
Seth Weadock	McKinney	TX	2	7.5	2	0	0	0	0	0	2	0
Brooklyn Williams	Anna	TX	1	9.0	1	0	0	0	0	0	1	0
Ashton Woods	Colony	TX	5	37.0	5	0	0	0	0	0	5	0
Nick Zorn	McKinney	TX	1	2.5	1	0	0	0	0	0	1	0
totals			149	19301.2	104	0.0	0	0.0	26	0.0	130	0.0

total number of flyers = 66

FLIGHT LOG

rocketeer(s)	stg	cls	type	TotImp	rocket	motor(s)	comment
Adam	1		Low A	2.5	ES Wizard	ES A8	
Adam	1		Low A	2.5	ES Wizard	ES A8	
Adam	1		Low A	2.5	ES Wizard	ES A8	
Aidan	1		low A	2.5	UNK UNK	ES A8	
Bryan	1		low A	2.5	UNK UNK	ES A8	
Bryan	1		low A	2.5	ES UNK	ES A8	
Evelyn	1		Low A	2.5	ES Alpha	ES A8	
Jake	1		low A	2.5	UNK UNK	ES A8	
Jude	1		low A	2.5	ES UNK	ES A8	
Nico	1		low A	2.5	ES UNK	ES A8	
Niko	1		low A	2.5	ES UNK	ES A8	
Randy	1		low A	2.5	ES UNK	ES A8	
Tanner	1		Low A	2.5	ES Alpha	ES A8	
Taran	1		Low A	2.5	ES Alpha	ES A8	
Vaughn	1		low A	2.5	ES UNK	ES A8	
Tony Baltay	1		low A	2.5	UNK UNK	ES A8	
Ryan Chen	1		Low A	2.5	ES Viking	ES A8	
Aidan Davis	1		low A	2.5	UNK UNK	ES A8	
David Eaton	1		Low A	2.5	ES Viking	ES A8	
David Eaton	1		Low A	2.5	ES Viking	ES A8	
Ethan Ferguson	1		low A	2.5	UNK UNK	ES A8	
Lisanne Frewin	1		low A	2.5	ES Blue Baby Bertha	QU A6	
Evelyn Guthrie	1		Low A	2.5	ES Alpha	ES A8	Pack 406
Tanner Guthrie	1		Low A	2.5	ES Alpha	ES A8	
Joshua Hunter	1		low A	2.5	ES UNK	ES A8	
Jacob Huntley	1		low A	2.5	UNK UNK	QU A6	
Jacob Huntley	1		low A	2.5	ES UNK	ES A8	
Joshua Huntley	1		low A	2.5	ES UNK	ES A8	
Oliver K	1		low A	2.5	ES Neon Green	ES A8	Pack 406
Griffin K.	1		low A	2.5	UNK Sweetness	ES A8	
Aidan Kennedy	1		low A	2.5	UNK UNK	ES A8	
Aidan Kennedy	1		low A	2.5	UNK UNK	ES A8	
Oliver Kerlinski	1		low A	2.5	UNK UNK	ES A8	
Lowell Lafreniere	1		low A	2.5	ES Sky Dart	ES A10	
Casey Riggs	1		low A	2.5	UNK UNK	ES A8	
Casey Riggs	1		low A	2.5	UNK UNK	ES A8	
David Schultz	1		low A	2.5	AAR Stealth	ES A10	
Mason W.	1		low A	2.5	ES UNK	ES A8	
Randy Wallace	1		low A	2.5	ES UNK	ES A8	
Emily Weadock	1		low A	2.5	UNK UNK	ES A8	
Seth Weadock	1		low A	2.5	UNK UNK	ES A8	
Nick Zorn	1		low A	2.5	UNK UNK	ES A8	
Adam	1		Low B	5.0	ES Wizard	ES B6	
Evelyn	1		Low B	5.0	ES Alpha	ES B6	
Jacob	1		low B	5.0	UNK UNK	ES B6	
Noah	1		low B	5.0	UNK UNK	ES B6	
Noah	1		low B	5.0	UNK UNK	ES B6	
Randy	1		low B	5.0	ES UNK	ES B6	
Tanner	1		Low B	5.0	ES Alpha	ES B6	
Aidan Davis	1		low B	5.0	UNK UNK	ES B6	
John Dyer	1		low B	5.0	RRR Spin Doctor	ES B6	
John Dyer	1		low B	5.0	ES Red Max	ES B6	
David Eaton	1		Low B	5.0	ES Viking	ES B6	reliving my first launch
Ethan Ferguson	1		low B	5.0	UNK UNK	ES B6	
Griffin K	1		low B	5.0	UNK Moon Man	ES B6	
Oliver K	1		low B	5.0	ES Mean Green	ES B6	
Melanie Kneen	1		low B	5.0	ES Pink Bertha	QU B6	
Jacob Mehr	1		low B	5.0	UNK Super	ES B4	

FLIGHT LOG

rocketeer(s)	stg	cls	type	TotImp	rocket	motor(s)	comment
Steve Pierce	1		low B	5.0	ES Twister Thing	ES B6	
Steve Pierce	1		low B	5.0	ES Crayon	ES B6	
Nick Viggiano	1		Low B	5.0	ES Baby Bertha	ES B6	
Seth Weadock	1		low B	5.0	ES UNK	ES B6	
Ashton Woods	1		low B	5.0	ES Black Diamond	ES B6	
Ashton Woods	1		low B	5.0	ES Penetrator	ES B6	
Ashton Woods	1		low B	5.0	ES Phantom Blue	ES B4	
Ashton Woods	1		Low B	5.0	ES Mongoose	ES B4	
Jacob	1		low C	9.0	RRR Red Shift	ES C6	
Jacob	1		low C	9.0	RRR Red Star	ES C6	
Nikolas	1		low C	9.0	LOC Little Nuke	ES C6	
Melanie Kneen	1		low C	9.0	ES Pink Baby Bertha	ES C6	
Michael Kneen	1		Low C	9.0	ES Big Bertha	ES C6	
Lowell Lafreniere	1		low C	9.0	UNK Firebolt	ES C6	
Lowell Lafreniere	1		low C	9.0	ES Farside	ES C6	
Lowell Lafreniere	1		low C	9.0	UNK Savage	ES C6	
Lowell Lafreniere	1		low C	9.0	UNK Farside	ES C6	
Lowell Lafreniere	1		low C	9.0	UNK Savage	ES C6	
Brooklyn Williams	1		low C	9.0	SCR Hello Kitty	ES C6	
Steve Pierce	3		low D	13.8	ES Commanche 3	1 x ES C11, 1 x ES A8, 1 x ES A8	
Gavin	1		Low D	17.0	ES Black Brant II	ES D12	
David Schultz	1		low D	17.0	AAR Stealth	ES D12	
Ashton Woods	1		low D	17.0	ES Firebolt	ES D12	
Steve Pierce	1		Low D	18.8	ES Flying Saucer	AT D10	
Lowell Lafreniere	2		low E	26.0	UNK Savage	1 x ES D12, 1 x ES C6	
Casey Bender	1	*	low E	27.0	ES Super Alpha	3 x ES C6	canted 3 motor cluster
Jeff Schwab	1		low E	27.2	ES QCC Explorer	ES E12	
Casey Bender	1		Hlt F	43.2	ES Mega-Mosquito	AT F12	
John Dyer	1		Hlt F	49.6	RRR No name	ES F15	
Lowell Lafreniere	1		Hlt F	49.6	UNK Trajector	ES F15	
Lowell Lafreniere	1		Hlt F	49.6	UNK Trajector	ES F15	
Jacob Mehr	1		Hlt F	50.0	SCR No Idea	AT F39	
TARC	1	*	Hlt F	51.0	SCR Pride2	3 x ES D12	
TARC	1	*	Hlt F	51.0	SCR Pride1A	3 x ES D12	
Johnson MS	1	*	Hlt F	51.0	UNK Pridel	3 x ES D12	TARC
Johnson MS	1	*	Hlt F	51.0	SCR TARC	3 x ES D12	
Johnson MS	1	*	Hlt F	51.0	SCR TARC	3 x ES D12	
Johnson MS	1	*	Hlt F	51.0	SCR TARC	3 x ES D12	
Johnson MS	1		Hlt F	51.0	SCR TARC	3 x ES D12	
Tom Knapp	1		Hlt F	52.9	ES Nike Smoke	AT F42	
Robert Hagen	2		Hlt G	83.0	SCR UNK	1 x ES F15, 1 x ES E16	need people to watch for booster
Steve Pierce	2		Hlt G	83.0	ES 2Stage	1 x ES F15, 1 x ES E16	Zombie Hunter
Jacob Mehr	1		Hlt G	90.9	UNK UNK	AT G53	
Nikolas	1		Hlt G	114.1	LOC Norad Pro Maxx	AT G40	
Tom Knapp	1		Hlt G	114.1	ES Leviathan	AT G40	
Steve Pierce	1		Hlt G	116.0	NCR Patriot	AT G80	
David Schultz	1		Hlt G	118.8	AT Strong Arm	AT G64	
Jacob Mehr	1		HPR G	128.0	AT G-Force	AT G125	
Mark Nance	1		HPR H	165.0	HM Fiberglass	AT H165	certification
Chris Bender	1		HPR H	169.0	AAR 29mm Cinco	AT H97	
Chuck Crabb	1		HPR H	169.0	AAR Cluster Saucer	AT H97	
Bailey Bleigh	1		HPR H	213.5	SCR UNK	AT H123	certification
Brad McPeak	1		HPR H	225.8	PML Pterodactyl 4	AT H135	
Jacob Mehr	1		HPR H	225.8	MC Payloader	AT H135	junior certification
Chuck Crabb	1		HPR H	239.2	LOC Athena 3	LK H144	

FLIGHT LOG

rocketeer(s)	stg	cls	type	TotImp	rocket	motor(s)	comment
Melissa	1		HPR H	289.0	SCR Demolisher	AT H45	
Chuck Crabb	1		HPR I	329.2	SCR Flamethrower	AT I161	
John Dyer	1		HPR I	329.2	MC Torrent	AT I161	
David Schultz	1		HPR I	329.2	PML Ariel	AT I161	
Robert Hagen	1		HPR I	342.5	MC Torrent	AT I357	
Steve	1		HPR I	552.0	LOC Big Nuke	AT I284	
Nikolas	1		HPR I	579.2	SCR Old Faithful	AT I140	
Robert Hagen	1		HPR I	579.2	BD Jaguar	AT I140	
John Kneen	1		HPR I	579.2	PML Matrix	AT I140	
Michael Kneen	1		HPR I	579.2	MC Aerobee 150A	AT I140	certification
Jacob Mehr	1		HPR I	579.2	MC Payloader	AT I140	
David Smith	1		HPR I	579.2	MC Torrent	AT I140	
Loren Walden	1		HPR I	620.0	LOC Big Cletus	AT I500	
Loren Walden	1		HPR I	636.1	LOC HyperLOC 835	AT I65	
Jeff Schwab	1		HPR J	676.0	LOC EZI-65	AT J425	certification
Chris Bender	1		HPR J	812.6	SCR Arapahoe-J	AT J460	certification - upscale of Thrust
Loren Walden	1		HPR K	1434.0	PO Black Brant	AT K535	
George Sprague	1		HPR M	6132.0	SCR Silver Beast	CTI M1810	certification

total flights = 130

ROCKET KIT TYPE SUMMARY

Manufacturer	Model	Name	wt,oz	len,in	dia,in	flts
Art Applewhite Rockets	29mm Cinco *		0.0	0.0	0.0	1
Art Applewhite Rockets	Cluster Saucer *		0.0	0.0	0.0	1
Art Applewhite Rockets	Stealth *		0.0	0.0	0.0	2
Aerotech	G-Force *		0.0	0.0	0.0	1
Aerotech	Strong Arm *		0.0	0.0	0.0	1
Binder Design	Jaguar *		0.0	80.0	2.6	1
Estes Industries, Inc.	2Stage *		0.0	0.0	0.0	1
Estes Industries, Inc.	Alpha		0.8	12.2	1.0	7
Estes Industries, Inc.	Baby Bertha		1.9	12.8	1.6	1
Estes Industries, Inc.	Big Bertha		2.2	24.0	1.6	1
Estes Industries, Inc.	Black Brant II		2.3	24.9	1.3	1
Estes Industries, Inc.	Black Diamond *		0.0	0.0	0.0	1
Estes Industries, Inc.	Blue Baby Bertha *		0.0	0.0	0.0	1
Estes Industries, Inc.	Commanche 3 *		0.0	0.0	0.0	1
Estes Industries, Inc.	Crayon *		0.0	0.0	0.0	1
Estes Industries, Inc.	Farside *		0.0	0.0	0.0	1
Estes Industries, Inc.	Firebolt *		0.0	0.0	0.0	1
Estes Industries, Inc.	Flying Saucer		2.6	3.3	7.7	1
Estes Industries, Inc.	Leviathan		17.5	41.5	3.0	1
Estes Industries, Inc.	Mean Green *		0.0	0.0	0.0	1
Estes Industries, Inc.	Mega-Mosquito *		0.0	0.0	0.0	1
Estes Industries, Inc.	Mongoose		2.3	26.5	1.0	1
Estes Industries, Inc.	Neon Green *		0.0	0.0	0.0	1
Estes Industries, Inc.	Nike Smoke *		0.0	0.0	0.0	1
Estes Industries, Inc.	Penetrator *		0.0	0.0	0.0	1
Estes Industries, Inc.	Phantom Blue *		0.0	0.0	0.0	1
Estes Industries, Inc.	Pink Baby Bertha *		0.0	0.0	0.0	1
Estes Industries, Inc.	Pink Bertha *		0.0	0.0	0.0	1
Estes Industries, Inc.	QCC Explorer *		0.0	0.0	0.0	1
Estes Industries, Inc.	Red Max *		0.0	0.0	0.0	1
Estes Industries, Inc.	Sky Dart *		0.0	0.0	0.0	1
Estes Industries, Inc.	Super Alpha *		0.0	0.0	0.0	1
Estes Industries, Inc.	Twister Thing *		0.0	0.0	0.0	1
Estes Industries, Inc.	UNK *		0.0	0.0	0.0	13
Estes Industries, Inc.	Viking		0.7	12.1	0.7	4
Estes Industries, Inc.	Wizard		0.8	12.0	0.7	4
Hawk Mountain	Fiberglass *		0.0	0.0	0.0	1
LOC/Precision	Athena 3 *		0.0	0.0	0.0	1
LOC/Precision	Big Cletus *		0.0	0.0	0.0	1
LOC/Precision	Big Nuke *		0.0	0.0	0.0	1
LOC/Precision	EZI-65		35.0	56.5	4.0	1
LOC/Precision	HyperLOC 835 *		0.0	0.0	0.0	1
LOC/Precision	Little Nuke *		0.0	0.0	0.0	1
LOC/Precision	Norad Pro Maxx *		0.0	0.0	0.0	1
Madcow	Aerobee 150A *		0.0	0.0	0.0	1
Madcow	Payloader *		0.0	0.0	0.0	2
Madcow	Torrent *		0.0	0.0	0.0	3
North Coast Rocketry	Patriot		32.0	54.5	4.0	1
Public Missiles Limited	Ariel		47.6	56.0	3.1	1
Public Missiles Limited	Matrix *		0.0	0.0	0.0	1
Public Missiles Limited	Pterodactyl 4 *		0.0	0.0	0.0	1
Polecat Aerospace	Black Brant *		0.0	0.0	0.0	1
Red River Rocketry	No name *		0.0	0.0	0.0	1
Red River Rocketry	Red Shift *		0.0	0.0	0.0	1
Red River Rocketry	Red Star *		0.0	0.0	0.0	1
Red River Rocketry	Spin Doctor *		0.0	0.0	0.0	1
Unknown	Farside *		0.0	0.0	0.0	1
Unknown	Firebolt *		0.0	0.0	0.0	1
Unknown	Moon Man *		0.0	0.0	0.0	1

ROCKET KIT TYPE SUMMARY

Manufacturer	Model	Name	wt,oz	len,in	dia,in	flts
Unknown	Pride1 *		0.0	0.0	0.0	1
Unknown	Savage *		0.0	0.0	0.0	3
Unknown	Super *		0.0	0.0	0.0	1
Unknown	Sweetness *		0.0	0.0	0.0	1
Unknown	Trajector *		0.0	0.0	0.0	2
Unknown	UNK *		0.0	0.0	0.0	19
Unknown	UNK *		0.0	0.0	0.0	2
Unknown	UNK *		0.0	0.0	0.0	19
Unknown	UNK *		0.0	0.0	0.0	2
Unknown	UNK *		0.0	0.0	0.0	19

total number of kit rocket types = 69

SCRATCH BUILT SUMMARY

Rocketeer	Model	Name	wt,oz	len,in	dia,in	fts
Chris Bender	Arapahoe-J		0.0	0.0	0.0	1
Melissa	Demolisher		0.0	0.0	0.0	1
Chuck Crabb	Flamethrower		0.0	0.0	0.0	1
Brooklyn Williams	Hello Kitty		0.0	0.0	0.0	1
Jacob Mehr	No Idea		0.0	0.0	0.0	1
Nikolas	Old Faithful		0.0	0.0	0.0	1
TARC	Pride1A		0.0	0.0	0.0	1
TARC	Pride2		0.0	0.0	0.0	1
George Sprague	Silver Beast		0.0	0.0	0.0	1
Johnson MS	TARC		0.0	0.0	0.0	3
Bailey Bleigh	UNK		0.0	0.0	0.0	2
Robert Hagen	UNK		0.0	0.0	0.0	2

total number of scratch rocket types = 12

MANUFACTURER SUMMARY

Abbrev	Manufacturer	Number motors used	Flights using motors	Flights using airframe
U	Unknown	0	0	72
AAR	Art Applewhite Rockets	0	0	4
AT	Aerotech	33	33	2
BD	Binder Design	0	0	1
CTI	Cesaroni Technology Inc.	1	1	0
ES	Estes Industries, Inc.	111	92	54
HM	Hawk Mountain	0	0	1
LK	Loki	1	1	0
LOC	LOC/Precision	0	0	7
MC	Madcow	0	0	6
NCR	North Coast Rocketry	0	0	1
PML	Public Missiles Limited	0	0	3
PO	Polecat Aerospace	0	0	1
QU	Quest	3	3	0
RRR	Red River Rocketry	0	0	4
	scratch built			14
	totals	149	130	170

number of manufacturers = 15