

LAUNCH SUMMARY

total number of flights	46
total number of low power flights	17
total number of HPRlite flights	17
total number of high power flights	12
total single stage flights	43
total cluster flights	0
total multiple stage flights	2
total cluster/staged flights	1
total number of motors expended	50
total impulse expended	7863.3
total number of flyers	18
number of states represented	2
States ?, TX	

	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	3
B	2.500-5.000 Ns	1
C	5-10 Ns	9
D	10-20 Ns	4
E	20-40 Ns	0
F	40-80 Ns	6
G	80-160 Ns	11
H	160-320 Ns	4
I	320-640 Ns	6
J	640-1280 Ns	1
K	1280-2560 Ns	1
L	2560-5120 Ns	0
M	5120-10240 Ns	0
N	10240-20480 Ns	0
O	20480-40960 Ns	0
totals		46

	Top Ten Individual Flyers	number of flights
1.	Tom Blakeney	6
2.	Nathanial Ejma	5
3.	Steve	5
4.	Casey Bender	3
5.	Angela Wright	3
6.	Tom Knapp	3
7.	Royce Frankum	3
8.	Bill Gee	2
9.	Adam Amick	2
10.	Fletcher Brunson	2

LAUNCH SUMMARY

Top Ten All-Around Flyers (individual + team)		number of flights
1.	Tom Blakeney	6
2.	Nathanial Ejma	5
3.	Steve	5
4.	Casey Bender	3
5.	Angela Wright	3
6.	Tom Knapp	3
7.	Royce Frankum	3
8.	Bill Gee	2
9.	Adam Amick	2
10.	Fletcher Brunson	2

Top Ten Motor Users		number of motors
1.	Tom Blakeney	6
2.	Nathanial Ejma	5
3.	Angela Wright	5
4.	Steve	5
5.	Chris Bender	4
6.	Casey Bender	3
7.	Tom Knapp	3
8.	Royce Frankum	3
9.	Bill Gee	2
10.	Adam Amick	2

Top Ten Total Impulse Users		Tot Imp, N-s
1.	Royce Frankum	2539.0
2.	Steve	1715.9
3.	Tom Blakeney	857.4
4.	Chris Bender	510.4
5.	Tom Knapp	455.9
6.	Steve Taylor	345.0
7.	Jack Poehlman	342.5
8.	Nathanial Ejma	234.2
9.	Sam Barone	233.7
10.	Adam Amick	232.1

MOTOR USAGE

motor	type	TotImp (N-s)	prop wt (g)	single stage	cluster power	staged power	cluster staged	total usage
ES A8	18mm SU	2.5	3.3	3	0	0	0	3
ES B6	18mm SU	5.0	5.6	1	0	4	0	5
ES C6	18mm SU	9.0	10.8	7	0	0	0	7
ES D12	24mm SU	17.0	21.1	4	0	0	0	4
AT F24W	24mm RL	47.3	19.0	1	0	0	0	1
AT F26	29mm SU	62.2	43.1	2	0	0	2	4
AT F27	29mm SU	49.6	28.4	1	0	0	0	1
AT F35	24mm RL	57.1	30.0	1	0	0	0	1
AT F39T	24mm RL	50.0	22.7	1	0	0	0	1
ES G40	29mm SU	97.1	53.8	1	0	0	0	1
AT G40W	29mm SU	114.1	55.1	5	0	0	0	5
AT G76	29mm RL	118.0	60.0	1	0	0	0	1
ES G80	29mm SU	136.6	62.5	2	0	0	0	2
AT G80T	29mm SU	116.0	56.9	2	0	0	0	2
AT H135	29mm SU	225.8	82.0	1	0	0	0	1
AT H165	29mm RL	165.0	90.0	1	0	0	1	2
AT H669	38mm RL	221.0	98.0	1	0	0	0	1
AT I140T	54mm SU	579.2	327.2	3	0	0	0	3
AT I161W	38mm RL	329.2	187.5	1	0	0	0	1
AT I205	29mm SU	345.0	188.0	1	0	0	0	1
AT I357T	38mm RL	342.5	166.2	1	0	0	0	1
AMW J370	54mm RL	1030.9	598.3	1	0	0	0	1
AMW K475	54mm RL	1394.0	728.6	1	0	0	0	1
totals		7863.3		43	0	4	3	50

number of different motor types = 23

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		
Owen	Fort Worth	TX	2	18.0	2	0	0	0	0	0	2	0
Steve	?		5	1715.9	2	0	0	0	3	0	5	0
Adam Amick	Little Elm	TX	2	232.1	2	0	0	0	0	0	2	0
Sam Barone	Plano	TX	2	233.7	2	0	0	0	0	0	2	0
Casey Bender	Garland	TX	3	192.9	3	0	0	0	0	0	3	0
Chris Bender	Garland	TX	4	510.4	0	0	0	0	2	0	2	0
Wesley Bender	Garland	TX	1	50.0	1	0	0	0	0	0	1	0
Tom Blakeney	Fort Worth	TX	6	857.4	4	0	0	0	2	0	6	0
Fletcher Brunson	Dallas	TX	2	18.0	2	0	0	0	0	0	2	0
Robert Brunson	Dallas	TX	1	9.0	1	0	0	0	0	0	1	0
Nathanial Ejma	Little Elm	TX	5	234.2	5	0	0	0	0	0	5	0
Royce Frankum	Dallas	TX	3	2539.0	1	0	0	0	2	0	3	0
Bill Gee	Plano	TX	2	5.0	2	0	0	0	0	0	2	0
Aurora Knapp	Bedford	TX	2	79.2	2	0	0	0	0	0	2	0
Tom Knapp	Bedford	TX	3	455.9	2	0	0	0	1	0	3	0
Jack Poehlman	Fort Worth	TX	1	342.5	0	0	0	0	1	0	1	0
Steve Taylor	McKinney	TX	1	345.0	0	0	0	0	1	0	1	0
Angela Wright	Frisco	TX	5	25.0	3	0	0	0	0	0	3	0
totals			50	7863.3	34	0.0	0	0.0	12	0.0	46	0.0

total number of flyers = 18

FLIGHT LOG

rocketeer(s)	stg	cls	type	TotImp	rocket	motor(s)	comment
Nathaniel Ejma	1		low A	2.5	ES Skyhawker	ES A8	
Bill Gee	1		low A	2.5	QU Q E-Z glider	ES A8	all I want to do is qualify
Bill Gee	1		low A	2.5	QU Q E-Z glider	ES A8	
Angela Wright	1		low B	5.0	ES Metalizer	ES B6	
Owen	1		low C	9.0	ES Shooting Star	ES C6	first flight
Owen	1		low C	9.0	ES Shooting Star	ES C6	
Casey Bender	1		low C	9.0	ES Crayon	ES C6	
Fletcher Brunson	1		low C	9.0	QU Harpoon	ES C6	
Fletcher Brunson	1		low C	9.0	QU Harpoon	ES C6	
Robert Brunson	1		low C	9.0	QU Harpoon	ES C6	
Nathaniel Ejma	1		low C	9.0	ES Sparkle Rocket	ES C6	
Angela Wright	2		Low C	10.0	ES Mongoose	1 x ES B6, 1 x ES B6	
Angela Wright	2		Low C	10.0	ES Mongoose	1 x ES B6, 1 x ES B6	
Tom Blakeney	1		low D	17.0	SCR Shuttle	ES D12	radio controlled, first flight
Tom Blakeney	1		low D	17.0	SCR Shuttle	ES D12	R/C
Tom Blakeney	1		low D	17.0	SCR Mig-21	ES D12	usually works
Aurora Knapp	1		Low D	17.0	ES Patriot (4-fin)	ES D12	
Casey Bender	1		Hlt F	47.3	ES Mega Mosquito	AT F24	
Nathaniel Ejma	1		Hlt F	49.6	ES Tomahawk	AT F27	
Wesley Bender	1		Hlt F	50.0	TLP Krypton	AT F39	
Nathaniel Ejma	1		Hlt F	57.1	ES Tomahawk	AT F35	
Tom Blakeney	1		Hlt F	62.2	NCR Eliminator	AT F26	20 year old NCR kit
Aurora Knapp	1		Hlt F	62.2	ES Hi-Flier XL	AT F26	
Sam Barone	1		Hlt G	97.1	ES Nike Smoke	ES G40	
Steve	1		Hlt G	114.1	LOC Norad Pro Max	AT G40	
Steve	1		Hlt G	114.1	U U	AT G40	
Adam Amick	1		Hlt G	114.1	PML Explorer	AT G40	
Royce Frankum	1		Hlt G	114.1	PML Sport	AT G40	
Tom Knapp	1		Hlt G	114.1	ES Nike Smoke	AT G40	
Nathaniel Ejma	1		Hlt G	116.0	SCR Crayon	AT G80	
Tom Knapp	1		Hlt G	116.0	ES Nike Smoke	AT G80	
Adam Amick	1		Hlt G	118.0	PML Explorer	AT G76	
Sam Barone	1		Hlt G	136.6	AAR Pharoah	ES G80	Rooten Tooten Pyramid of Mystery
Casey Bender	1		Hlt G	136.6	ES Nike Smoke	ES G80	
Tom Blakeney	1		HPR H	165.0	SCR Blue Thunder	AT H165	
Chris Bender	1		HPR H	221.0	SCR Cherokee-I	AT H669	dual deploy using cable cutter
Tom Knapp	1		HPR H	225.8	ES Leviathan	AT H135	
Chris Bender	2	*	HPR H	289.4	ES Mega Der Red Max	1 x AT H165, 2 x AT F26	cluster, main at apogee
Steve	1		HPR I	329.2	LOC Hacksaw	AT I161	
Jack Poehlman	1		HPR I	342.5	LOC LOC 3.1	AT I357	early separation
Steve Taylor	1		HPR I	345.0	MC Phoenix	AT I205	
Steve	1		HPR I	579.2	LOC Hyperloc	AT I140	
Steve	1		HPR I	579.2	SCR U	AT I140	dual deploy
Tom Blakeney	1		HPR I	579.2	SCR Aquila	AT I140	another old rocket
Royce Frankum	1		HPR J	1030.9	SCR Sport	AMW J370	glutton for punishment
Royce Frankum	1		HPR K	1394.0	SCR Sport	AMW K475	

total flights = 46

ROCKET KIT TYPE SUMMARY

Manufacturer	Model	Name	wt,oz	len,in	dia,in	flts
Art Applewhite Rockets	Pharoah *		0.0	0.0	0.0	1
Estes Industries, Inc.	Crayon *		0.0	0.0	0.0	1
Estes Industries, Inc.	Hi-Flier XL *		0.0	0.0	0.0	1
Estes Industries, Inc.	Leviathan		17.5	41.5	3.0	1
Estes Industries, Inc.	Mega Der Red Max		31.0	40.0	4.0	1
Estes Industries, Inc.	Mega Mosquito *		0.0	0.0	0.0	1
Estes Industries, Inc.	Metalizer *		0.0	0.0	0.0	1
Estes Industries, Inc.	Mongoose		2.3	26.5	1.0	2
Estes Industries, Inc.	Nike Smoke *		0.0	0.0	0.0	4
Estes Industries, Inc.	Patriot (4-fin)		1.5	21.2	1.6	1
Estes Industries, Inc.	Shooting Star *		0.0	0.0	0.0	2
Estes Industries, Inc.	Skyhawker *		0.0	0.0	0.0	1
Estes Industries, Inc.	Sparkle Rocket *		0.0	0.0	0.0	1
Estes Industries, Inc.	Tomahawk *		0.0	0.0	0.0	2
LOC/Precision	Hacksaw *		0.0	0.0	0.0	1
LOC/Precision	Hyperloc *		0.0	0.0	0.0	1
LOC/Precision	LOC 3.1 *		0.0	0.0	0.0	1
LOC/Precision	Norad Pro Max *		0.0	0.0	0.0	1
Madcow	Phoenix *		0.0	0.0	0.0	1
North Coast Rocketry	Eliminator		21.0	45.0	2.7	1
Public Missiles Limited	Explorer		30.7	45.5	2.7	2
Public Missiles Limited	Sport *		0.0	0.0	0.0	1
Quest	Harpoon *		0.0	0.0	0.0	3
Quest	Q E-Z glider *		0.0	0.0	0.0	2
The Launch Pad	Krypton *		0.0	0.0	0.0	1
Unknown	U *		0.0	0.0	0.0	1

total number of kit rocket types = 26

SCRATCH BUILT SUMMARY

Rocketeer	Model	Name	wt,oz	len,in	dia,in	fts
Tom Blakeney	Aquila		0.0	0.0	0.0	1
Tom Blakeney	Blue Thunder		0.0	0.0	0.0	1
Chris Bender	Cherokee-I		0.0	0.0	0.0	1
Nathanial Ejma	Crayon		0.0	0.0	0.0	1
Tom Blakeney	Mig-21		0.0	0.0	0.0	1
Tom Blakeney	Shuttle		0.0	0.0	0.0	2
Royce Frankum	Sport		0.0	0.0	0.0	2
Steve	U		0.0	0.0	0.0	1

total number of scratch rocket types = 8

MANUFACTURER SUMMARY

Abbrev	Manufacturer	Number motors used	Flights using motors	Flights using airframe
U	Unknown	0	0	1
AAR	Art Applewhite Rockets	0	0	1
AT	Aerotech	26	24	0
AMW	Animal Motor Works	2	2	0
ES	Estes Industries, Inc.	22	20	19
LOC	LOC/Precision	0	0	4
MC	Madcow	0	0	1
NCR	North Coast Rocketry	0	0	1
PML	Public Missiles Limited	0	0	3
QU	Quest	0	0	5
TLP	The Launch Pad	0	0	1
	scratch built			10
	totals	50	46	46

number of manufacturers = 11