

LAUNCH SUMMARY

total number of flights	41
total number of low power flights	15
total number of HPRlite flights	14
total number of high power flights	12
total single stage flights	32
total cluster flights	9
total multiple stage flights	0
total cluster/staged flights	0
total number of motors expended	57
total impulse expended	12515.8
total number of flyers	16
number of states represented	1
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	0
B	2.500-5.000 Ns	1
C	5-10 Ns	2
D	10-20 Ns	4
E	20-40 Ns	8
F	40-80 Ns	6
G	80-160 Ns	9
H	160-320 Ns	5
I	320-640 Ns	1
J	640-1280 Ns	1
K	1280-2560 Ns	3
L	2560-5120 Ns	1
M	5120-10240 Ns	0
N	10240-20480 Ns	0
O	20480-40960 Ns	0
totals		41

Top Ten Individual Flyers		number of flights
1.	Al Yunker	7
2.	Tom Blakeney	5
3.	Jeff Jones	4
4.	Tom Knapp	4
5.	Chas Russell	4
6.	Chuck Crabb	2
7.	Dan Smith	2
8.	David Schultz	2
9.	John Dyer	2
10.	Royce Frankum	2

LAUNCH SUMMARY

Top Ten All-Around Flyers (individual + team)		number of flights
1.	Al Yunker	7
2.	Tom Blakeney	5
3.	Jeff Jones	4
4.	Tom Knapp	4
5.	Chas Russell	4
6.	Chuck Crabb	2
7.	Dan Smith	2
8.	David Schultz	2
9.	John Dyer	2
10.	Royce Frankum	2

Top Ten Motor Users		number of motors
1.	Al Yunker	14
2.	Chas Russell	6
3.	David Schultz	5
4.	Tom Blakeney	5
5.	Jeff Jones	4
6.	Chuck Crabb	4
7.	Dan Smith	4
8.	Tom Knapp	4
9.	John Dyer	2
10.	Royce Frankum	2

Top Ten Total Impulse Users		Tot Imp, N-s
1.	Jeff Jones	4334.5
2.	David Schultz	2439.0
3.	Chuck Crabb	1462.4
4.	George Sprague	1434.0
5.	Tom Blakeney	794.4
6.	Tom Knapp	538.8
7.	Chas Russell	443.1
8.	David Smith	233.0
9.	Richard LaSalle	218.0
10.	Al Yunker	215.7

MOTOR USAGE

motor	type	TotImp (N-s)	prop wt (g)	single stage	cluster power	staged power	cluster staged	total usage
ES B6	18mm SU	5.0	5.6	1	2	0	0	3
ES C6	18mm SU	9.0	10.8	2	0	0	0	2
ES D12	24mm SU	17.0	21.1	2	17	0	0	19
AT D2	18mm RL	17.2	10.7	1	0	0	0	1
AT D21T	18mm SU	18.7	9.6	1	0	0	0	1
AT E12	24mm RL	34.2	30.3	1	0	0	0	1
AT E25T	18mm SU	20.6	11.0	1	0	0	0	1
ES E9	24mm SU	27.9	35.8	2	3	0	0	5
ES F15	29mm SU	49.6	60.0	1	0	0	0	1
AT F42	29mm SU	52.9	27.0	1	0	0	0	1
AT F52T	29mm RL	80.0	36.6	1	0	0	0	1
AT G125	29mm SU	128.0	59.6	1	0	0	0	1
AT G35	29mm SU	100.8	50.0	1	0	0	0	1
AT G40W	29mm SU	114.1	55.1	2	0	0	0	2
AT G64W	29mm RL	118.8	62.5	1	0	0	0	1
AT G76	29mm RL	118.0	60.0	1	0	0	0	1
AT G77	29mm RL	105.0	58.0	1	0	0	0	1
AT G79	29mm RL	108.6	62.0	1	0	0	0	1
AT H123W	38mm RL	213.5	125.0	2	0	0	0	2
LK H144	38mm RL	239.2	126.0	0	2	0	0	2
AT H165	29mm RL	165.0	90.0	1	0	0	0	1
AT H182	29mm SU	218.0	115.0	1	0	0	0	1
AT H195	29mm SU	236.1	115.0	1	0	0	0	1
AT I140T	54mm SU	579.2	327.2	1	0	0	0	1
AT J135W	54mm RL	1200.0	587.1	1	0	0	0	1
AT J825	38mm RL	974.9	500.0	0	1	0	0	1
AT K535	54mm SU	1434.0	745.0	1	0	0	0	1
AT K780	75mm RL	2371.0	1268.0	1	0	0	0	1
KBA L2300	54mm RL	2756.0	1210.0	1	0	0	0	1
totals		12515.8		32	25	0	0	57

number of different motor types = 29

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		
Baily	Grapevine	TX	1	100.8	1	0	0	0	0	0	1	0
Tom Blakeney	Fort Worth	TX	5	794.4	4	0	0	0	1	0	5	0
Chuck Crabb	Flower Mound	TX	4	1462.4	1	0	0	0	1	0	2	0
John Dyer	Dallas	TX	2	14.0	2	0	0	0	0	0	2	0
Royce Frankum	Poetry	TX	2	139.4	2	0	0	0	0	0	2	0
Jeff Jones	Keller	TX	4	4334.5	0	0	0	0	4	0	4	0
Tom Knapp	Bedford	TX	4	538.8	3	0	0	0	1	0	4	0
Evan LaSalle	Denton	TX	1	27.9	1	0	0	0	0	0	1	0
Richard LaSalle	Denton	TX	1	218.0	0	0	0	0	1	0	1	0
Chas Russell	Fort Worth	TX	6	443.1	3	0	0	0	1	0	4	0
David Schultz	Arlington	TX	5	2439.0	1	0	0	0	1	0	2	0
Dan Smith	Watauga	TX	4	68.0	2	0	0	0	0	0	2	0
David Smith	Allen	TX	2	233.0	1	0	0	0	1	0	2	0
George Sprague	Mesquite	TX	1	1434.0	0	0	0	0	1	0	1	0
Robert Watson	Eules	TX	1	52.9	1	0	0	0	0	0	1	0
Al Yunker	The Colony	TX	14	215.7	7	0	0	0	0	0	7	0
totals			57	12515.8	29	0.0	0	0.0	12	0.0	41	0.0

total number of flyers = 16

FLIGHT LOG

rocketeer(s)	stg	cls	type	TotImp	rocket	motor(s)	comment
John Dyer	1		low B	5.0	RRR Diamond Ring	ES B6	
Chuck Crabb	1		low C	9.0	SCR Deep Surface Penetrator	ES C6	
John Dyer	1		low C	9.0	SCR Cheap Saucer	ES C6	
Dan Smith	1		low D	17.0	QU Mean Green	ES D12	
Al Yunker	1		low D	17.0	SCR Stinger	ES D12	
Tom Blakeney	1		low D	17.2	SCR Black Horse	AT D2	R/C
Al Yunker	1		low D	18.7	SCR XVI	AT D21	
Royce Frankum	1		low E	20.6	SCR Goblin	AT E25	2X Up Scale
Al Yunker	1	*	low E	27.0	SCR Penta	1 x ES D12, 2 x ES B6	
Evan LaSalle	1		low E	27.9	ES Big Daddy	ES E9	
Chas Russell	1		Low E	27.9	ES Pathfinder	ES E9	Cato blew nozzle
Al Yunker	1	*	low E	34.0	SCR Bubba	2 x ES D12	
Al Yunker	1	*	low E	34.0	SCR XIV	2 x ES D12	
Al Yunker	1	*	low E	34.0	SCR XIV	2 x ES D12	
Tom Blakeney	1		low E	34.2	DYN Bomarc	AT E12	R/C
Tom Blakeney	1		Hlt F	49.6	ES Trajector	ES F15	
Dan Smith	1	*	Hlt F	51.0	TLP Nike Ajax	3 x ES D12	
Al Yunker	1	*	Hlt F	51.0	SCR Argent III	3 x ES D12	
Robert Watson	1		Hlt F	52.9	ES Ascender	AT F42	
David Schultz	1	*	Hlt F	68.0	ES Patriot (4-fin)	4 x ES D12	
Tom Knapp	1		Hlt F	80.0	ES Hi-Flier XXL	AT F52	Chute Release
Chas Russell	1	*	Hlt G	83.7	SCR Cluster	3 x ES E9	
Baily	1		Hlt G	100.8	SCR UNK	AT G35	
David Smith	1		Hlt G	105.0	ES Mega Der Red Max	AT G77	
Tom Knapp	1		Hlt G	108.6	SCR Cheap Trick	AT G79	kit bash Chute Release 400
Tom Blakeney	1		Hlt G	114.1	AT Strong Arm	AT G40	own design R/C chute release
Tom Knapp	1		Hlt G	114.1	ES Nike Smoke	AT G40	Chute Release @ 400
Chas Russell	1		Hlt G	118.0	RRR P Shooter XL	AT G76	
Royce Frankum	1		Hlt G	118.8	SCR UNK	AT G64	Dual Deploy
David Smith	1		HPR G	128.0	ES Mega Der Red Max	AT G125	
Jeff Jones	1		HPR H	165.0	MC UNK	AT H165	
Jeff Jones	1		HPR H	213.5	SCR V2	AT H123	Jolly Logic Chute Release
Chas Russell	1		HPR H	213.5	DGA Arrow	AT H123	
Richard LaSalle	1		HPR H	218.0	ES Leviathon XL	AT H182	certification flight
Tom Knapp	1		HPR H	236.1	ES Cheap Trisk	AT H195	
Tom Blakeney	1		HPR I	579.2	SCR Aquila	AT I140	R/C chute release
Jeff Jones	1		HPR J	1200.0	MC Tomach 54	AT J135	main at 700 feet
George Sprague	1		HPR K	1434.0	LOC Psyonic	AT K535	two altimeters main at 600 feet
Chuck Crabb	1	*	HPR K	1453.4	SCR Bob Wilson	1 x AT J825, 2 x LK H144	airstart at 700 chute release mai
David Schultz	1		HPR K	2371.0	SCR Assault Breaker	AT K780	dual deploy main at 1000 feet
Jeff Jones	1		HPR L	2756.0	RW UNK	KBA L2300	Mojave green on board video

total flights = 41

ROCKET KIT TYPE SUMMARY

Manufacturer	Model	Name	wt,oz	len,in	dia,in	flts
Aerotech	Strong Arm *		0.0	0.0	0.0	1
DG&A	Arrow		65.0	46.0	4.0	1
Dynasoar Rocketry	Bomarc *		0.0	0.0	0.0	1
Estes Industries, Inc.	Ascender		11.0	42.1	2.0	1
Estes Industries, Inc.	Big Daddy *		0.0	0.0	0.0	1
Estes Industries, Inc.	Cheap Trisk *		0.0	0.0	0.0	1
Estes Industries, Inc.	Hi-Flier XXL *		0.0	0.0	0.0	1
Estes Industries, Inc.	Leviathon XL *		0.0	0.0	0.0	1
Estes Industries, Inc.	Mega Der Red Max		31.0	40.0	4.0	2
Estes Industries, Inc.	Nike Smoke *		0.0	0.0	0.0	1
Estes Industries, Inc.	Pathfinder		3.2	42.2	1.6	1
Estes Industries, Inc.	Patriot (4-fin)		1.5	21.2	1.6	1
Estes Industries, Inc.	Trajector *		0.0	0.0	0.0	1
LOC/Precision	Psyonic *		0.0	0.0	0.0	1
Madcow	Tomach 54 *		0.0	0.0	0.0	1
Madcow	UNK *		0.0	0.0	0.0	1
Quest	Mean Green *		0.0	0.0	0.0	1
Red River Rocketry	Diamond Ring *		0.0	0.0	0.0	1
Red River Rocketry	P Shooter XL *		0.0	0.0	0.0	1
Rocketry Warehouse	UNK *		0.0	0.0	0.0	1
The Launch Pad	Nike Ajax *		0.0	0.0	0.0	1

total number of kit rocket types = 21

SCRATCH BUILT SUMMARY

Rocketeer	Model	Name	wt,oz	len,in	dia,in	fts
Tom Blakeney	Aquila		0.0	0.0	0.0	1
Al Yunker	Argent III		0.0	0.0	0.0	1
David Schultz	Assault Breaker		0.0	0.0	0.0	1
Tom Blakeney	Black Horse		0.0	0.0	0.0	1
Chuck Crabb	Bob Wilson		0.0	0.0	0.0	1
Al Yunker	Bubba		0.0	0.0	0.0	1
John Dyer	Cheap Saucer		0.0	0.0	0.0	1
Tom Knapp	Cheap Trick		0.0	0.0	0.0	1
Chas Russell	Cluster		0.0	0.0	0.0	1
Chuck Crabb	Deep Surface Penetrator		0.0	0.0	0.0	1
Royce Frankum	Goblin		0.0	0.0	0.0	1
Al Yunker	Penta		0.0	0.0	0.0	1
Al Yunker	Stinger		0.0	0.0	0.0	1
Baily	UNK		0.0	0.0	0.0	2
Royce Frankum	UNK		0.0	0.0	0.0	2
Jeff Jones	V2		0.0	0.0	0.0	1
Al Yunker	XIV		0.0	0.0	0.0	2
Al Yunker	XVI		0.0	0.0	0.0	1

total number of scratch rocket types = 18

MANUFACTURER SUMMARY

Abbrev	Manufacturer	Number motors used	Flights using motors	Flights using airframe
AT	Aerotech	24	24	1
DGA	DG&A	0	0	1
DYN	Dynasoar Rocketry	0	0	1
ES	Estes Industries, Inc.	30	16	11
KBA	Kosdon by Aerotech	1	1	0
LK	Loki	2	1	0
LOC	LOC/Precision	0	0	1
MC	Madcow	0	0	2
QU	Quest	0	0	1
RRR	Red River Rocketry	0	0	2
RW	Rocketry Warehouse	0	0	1
TLP	The Launch Pad	0	0	1
	scratch built			19
	totals	57	42	41

number of manufacturers = 12