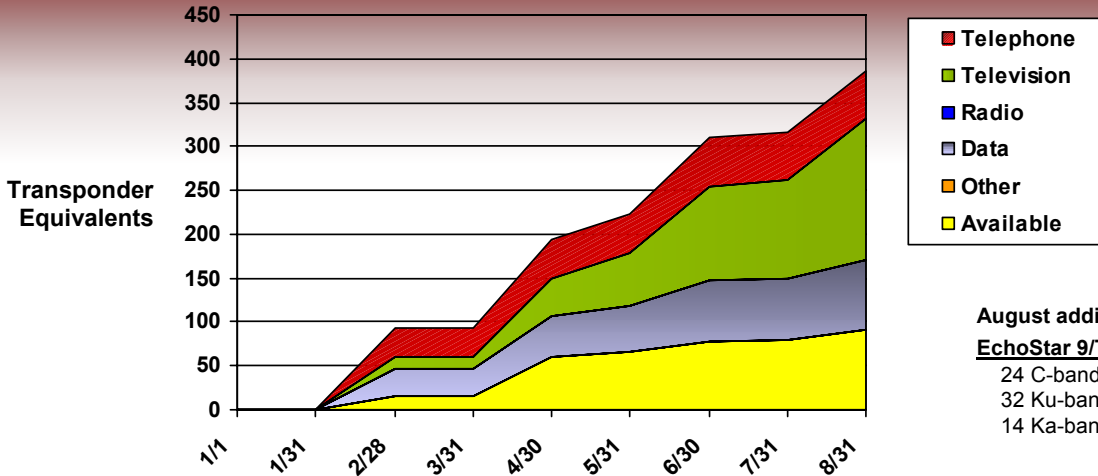




Satellite Telecommunications Report

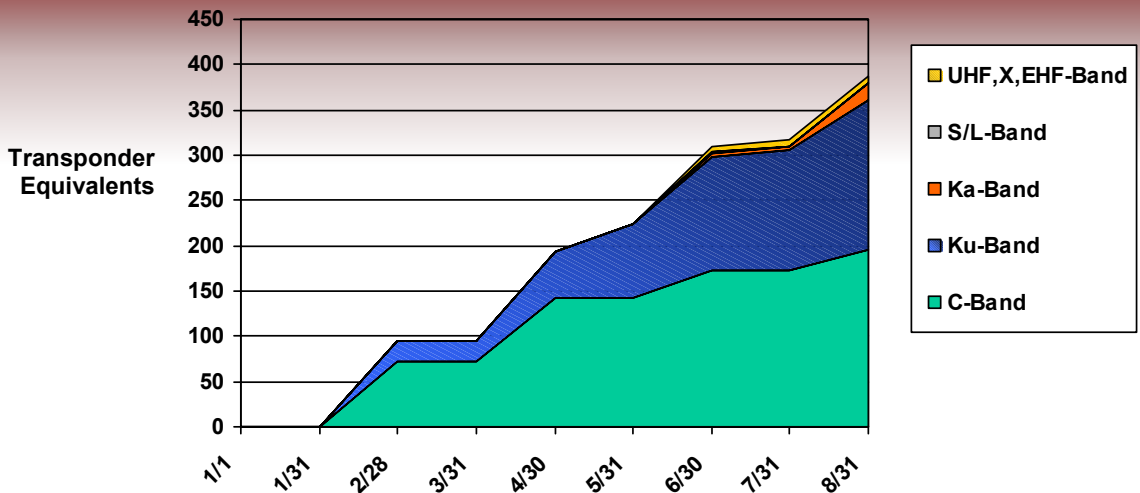
2003 Cumulative 36-MHz Transponder Equivalents Launched by Application



August additions:
EchoStar 9/Telstar 13: 70 TEs
 24 C-band
 32 Ku-band
 14 Ka-band

2003 Cumulative 36-MHz Transponder Equivalents by Application													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Telephone	0	33	33	45	45	55.1	55.1	55.1					
TV	0	15	15	43	61	108	113	162					
Data	0	31	31	46	52	69	69	78					
Radio	0	0	0	0	0	0	0	0					
Other	0	0	0	0	0	0	0	0					
Available	0	15	15	60	66	77.8	79.8	91.8					
Totals	0	94	94	194	224	309.9	316.9	386.9					

2003 Cumulative 36-MHz Transponder Equivalents Launched by Frequency



2003 Cumulative 36-MHz Transponder Equivalents by Frequency													
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
C-Band	0	72	72	142	142	172	172	196					
Ku-Band	0	22	22	52	82	126	133	165					
Ka-Band	0	0	0	0	0	4	4	18					
S/L-Band	0	0	0	0	0	0	.9	.9					
UHF,X,EHF-Band	0	0	0	0	0	7	7	7					
Totals	0	94	94	194	224	309.9	316.9	386.9					

For more information contact:

Eileen McGowan, Senior Analyst
 Space & Telecommunications Division
 Futron Corporation • 7315 Wisconsin Avenue, Suite 900W • Bethesda, MD 20814
 301-347-3431 • emcgowan@futron.com