LAUNCHES PER YEAR

	ACTUAL CY 75	ACTUAL CY 76	STS 1980-92	MODEL ~Per Year
NASA	7	6	211	21
U.S. Government, Com'l, Foreign	12	9	138	14
DOD	11	11	111	11
	30	26	460	46
Failures	4	--	27*	3*
	34	26	487	49

Points

1. ~~201~~ 167 of ~~211~~ NASA (and 27 of the foreign launches) launches in STS era are reusable Spacelab missions.
2. U.S. Government, com'l, foreign launches show slight increase in STS era.
3. DoD flight rate is unchanged in STS era.

*Planned Reflights

Office of the Secretary of Defense 5USC552
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Reason: ____
MDR: 13-M-4665

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STS TRAFFIC MODEL

5 ORBITERS/2 SITE

(USERS)

FY	80	81	82	83	84	85	86	87	88	89	90	91	92	TOTAL
ETR														
NASA	1	6	10	10	18	17	19	18	15	17	17	16	3	167
U. S. GOV'T	1	1	-	-	1	-	-	-	1	-	1	1	-	6
U. S. COM'L	1	3	1	2	3	4	5	4	9	8	8	4	2	54
FOREIGN	-	1	3	3	3	3	3	5	5	5	6	6	1	44
DOD	-	-	2	6	7	8	7	5	8	6	7	9	2	67
SUBTOTAL	3	11	16	21	32	32	34	32	38	36	39	36	8	338
REFLIGHTS	-	1	1	1	2	2	2	2	2	2	2	2	1	20
TOTAL ETR	3	12	17	22	34	34	36	34	40	38	41	38	9	358
WTR														
NASA				1	4	6	5	5	6	4	6	6	1	44
U. S. GOV'T				1	1	1	2	2	4	2	4	2	1	20
U. S. COM'L				-	-	-	1	1	-	-	-	1	-	3
FOREIGN				-	-	-	2	3	1	2	1	1	1	11
DOD				2	4	5	4	6	6	6	4	6	1	44
SUBTOTAL				4	9	12	14	17	17	14	15	16	4	122
REFLIGHTS				-	-	1	1	1	1	1	1	1	-	7
TOTAL WTR				4	9	13	15	18	18	15	16	17	4	129
TOTAL STS OPS	3	12	17	26	43	47	51	52	58	53	57	55	13	487

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OMB STUDY SUPPLEMENT

STS TRAFFIC MODEL

5 ORBITERS/2 SITE

(FLIGHT ELEMENTS)

FY	80	81	82	83	84	85	86	87	88	89	90	91	92	TOTAL
ETR														
SPACELAB	-	6	8	10	14	16	17	18	17	18	17	18	3	162
UPPER STAGES	2	5	6	11	15	15	15	9	20	14	19	15	4	150
FREE-FLYERS	1	-	2	-	3	1	2	5	1	4	3	3	1	26
SUBTOTAL	3	11	16	21	32	32	34	32	38	36	39	36	8	338
REFLIGHTS	-	1	1	1	2	2	2	2	2	2	2	2	1	20
TOTAL ETR	3	12	17	22	34	34	36	34	40	38	41	38	9	358
WTR														
SPACELAB	-	-	-	-	3	4	5	5	5	5	5	5	2	39
UPPER STAGES	-	-	-	-	-	1	1	2	1	1	1	2	0	9
FREE-FLYERS	-	-	-	4	6	7	8	10	11	8	9	9	2	74
SUBTOTAL	-	-	-	4	9	12	14	17	17	14	15	16	4	122
REFLIGHTS	-	-	-	-	-	1	1	1	1	1	1	1	-	7
TOTAL WTR	-	-	-	4	9	13	15	18	18	15	16	17	4	129
TOTAL STS OPS	3	12	17	26	43	47	51	52	58	53	57	55	13	487

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DOD SPACE MISSION MODEL (FY 1977 - 1991) (U)

LAUNCH TRAFFIC

(includes ELV Launches in 77-84 period)

	PROGRAM	FY 77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	TOTAL
	USE SHUTTLE AT KSC**																
Def Sat. Comm. Sys	DSCS	1	2	1	1	1	[1]	1	1	0	0	0	0	0	1	1	11
Sat. Data System	SDS	1	0	1	1	0	[1]	0	1	0	1	0	1	0	1	0	8
Def. Support Program	DSP	1	1	1	0	0	1	1	[1]	1	1	0	1	1	1	0	11
Global. Positioning Sys	GPS	2	5	2	1	4	4	[1]	2	2	1	1	1	1	1	1	29
	SM II	0	1	1	0	1	1	[1]	1	1	1	1	1	1	1	1	13
	SM III	2	0	0	1	1	1	0	1	[1]	0	0	1	1	0	0	9
Space Test Program	STP ASCENT SHARED*	0	0	1	[*]	0	*	0	*	*	*	*	*	*	*	*	1*
Fleet Sat. Comm.	FSC		1	1	2	1											5
NATO Comm. Sat.	NATO III	1	1														2
Survivable Sat Sys.	AFSAT (SSS)							[2]	1	2	2	1	0	0	1	0	9
Gen. Purpose Sat. Comm.	GPSCS							[2]	1	2	1	1	2	1	1	2	13
Deep Space Surv. Sys.	DSSS												[1]	2	0	1	4
	TL SHUTTLE KSC				[*]		2	7	8	9	7	4	8	7	7	6	65*
	USE SHUTTLE AF VAFB**																
Defense Met. Sat.	DMSP	1	2	2	1	1	1	(1)	1	1	1	1	1	1	0	1	16
	SM I	4	2	4	2	3	2	2+(1)	1	2	2	2	2	2	2	2	35
	SM IV	1	1	1	1	2	0	1	(1)	2	0	1	1	2	0	1	15
Space Test. Program	STP ASCENT SHARED*	0	1	0	0	1	0	(*)	*	*	*	*	*	*	*	*	2*
Ocean Surveillance	X0760-OS							(1)	1	0	1	1	0	1	1	0	6
Deep Space Surv. Sys.	DSSS											(1)	2	0	1	2	6
	TL SHUTTLE VAFB							(3)	4	5	4	6	6	6	4	6	44*
	TOTAL	14	17	15	10	15	12	14	13	14	11	10	14	13	11	12	195*

*ALL STP SHUTTLE LAUNCHES WILL BE CONDUCTED IN CONJUNCTION WITH OTHER PAYLOAD MISSIONS.

**PRIOR TO TRANSITION TO SHUTTLE SOME PROGRAMS ARE NOT LAUNCHED AT THIS SITE.

☐ 1st SHUTTLE LAUNCH FROM KSC

○ 1st SHUTTLE LAUNCH FROM VAFB

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SPACE SHUTTLE FUNDING THROUGH FY 1983

($ millions)

	FY 1977 AND PRIOR	FY 1978	FY 1979	FY 1980	FY 1981	FY 1982	FY 1983	TOTAL
RDT&E	106.8	124.3	169.5	160.5	135.7	146.3	73.3	916.4
PROCUREMENT	0	26.4	148.5	141.5	61.2	12.4	1.8	391.8
MILCON	0	0	148.6	86.5	0	0	0	235.1
	106.8	150.7	466.6	388.5	196.9	158.7	75.1	$1,543.3
BACK-UP BOOSTERS								
PROCUREMENT		61.9	5.2	7.0	35.2	21.0		$ 130.3
PAYLOAD TRANSITION								
RDT&E	3.5	12.2	37.6	45.1	31.8	22.0	7.2	159.4
PROCUREMENT			31.9	12.2	5.5	16.8	16.0	82.4
	3.5	12.2	69.5	57.3	37.3	38.8	23.2	$ 241.8

AIR FORCE	- SUBTOTAL THROUGH FY 1983	$1,915.4
OTHER DOD PROGRAMS	- BACK-UP BOOSTERS	228.0
	PAYLOAD TRANSITION (Through FY 82)	187.0
	GRAND TOTAL	$2,330.4

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TRAFFIC MODEL COMPARISON

CURRENT (1977) VS. 1976 MODEL

	CURRENT REQ'MT (NASA projection)	STUDY BASE (Reduced Spacelab missions to account for attrition of one orbiter)	1976 STUDY
NASA			
AUTOMATED	58	58	59
SPACELAB	230	167	230
U. S. GOVERNMENT			
AUTOMATED	28	28	28
SPACELAB		-	-
U. S. COMMERCIAL			
AUTOMATED	41	41	47
SPACELAB	20	20	19
FOREIGN			
AUTOMATED	32	32	32
SPACELAB	29	27	33
	438	373	448
DOD (AUTOMATED)	114	114	112
TRAFFIC MODEL	552	487	560

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Reviewed Chief, RDD, WHS
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