

TABLE IAIR-TO-GROUND MUNITIONS EXPENDED IN "DESERT STORM"
(USAF, USN, USMC)AIR-TO-GROUND MISSILES:AGM-65 MAVERICK

-65B (TV guidance): 1,703

-65D (Imaging IR): 3,536

-65G (Imaging IR): 187

-65E (Laser): 41

AGM-84E/SLAM (Harpoon): 7

AGM-62 (WALLEYE): 31

ANTI-RADIATION MISSILES

AGM-45 (Shrike): 31

AGM-88 (HARM): 1,804

UNGUIDED BOMBS

Mk 82 (500 Lb): 64, 698

Mk 83 (1000 Lb): 10, 125

Mk 84 (2000Lb): 11,179

Mk 117 (750 Lb): 34,808

UK 1000Lb: 288

Mk-20 Rockeye: 27, 735

CBU-78: 215

CBU-89: 1,107

CBU-52/58/71: 17,029

CBU-87: 10,815

LASER-GUIDED BOMBS

GBU-10 (2000 Lb): 2,263

GBU-15 (" "): 71

GBU-24 (2000 Lb): 284

GBU-10/I-2000 (penetration, 2000 Lb): 403

GBU-24/I-2000 (" "): 877

GBU-12 (500 Lb): 4,542

GBU-16 (1000 Lb): 208

TABLE II: ALLOCATION OF USAF, USN, USMC SORTIES BY TARGET CATEGORIES

(1 data page)

GLOSSARY OF TERMS OVERLEAF .

Airfields

CCC: Command, Control, Communications.

NBC: Nuclear, Biological, Chemical laboratories, plants, storage.

ELECT: Electrical power-generation.

LDR: "Leadership" (Palace, police, security, Ba'ath party and militia headquarters

MIL SPT: Weapon and ammunition production, repair and storage.

NAVAL

OIL: refineries, storage not well-heads.

RR: road and rail bridges, marshalling yards.

RG: Republic Guard and other Iraqi ground forces.

SCUDS: fixed launchers, storage, mobile launchers.

SAD: strategic air defenses, (radars, AD-C3, GCI).

DAY	AIRFLDS	CCC	NBC	ELECT	LDR	MIL SPT	NAVAL	OIL	RR	REPEAT	RG	SCUDS	SAD
1	163	21	64	39	44	23	14	37	27		32	186	168
2	154	40	38	20	23	96	26	14	10		185	78	45
3	38	8	68		68	74	20	18	33		75	18	46
4	59	22	10	12	1	102	3	5		4	48	33	11
5	106	23	68	4	46	93	16		35	12	101	66	33
6	24	37	8	4	5	44		12	7	4	49	100	44
7	137	13	43		4	52		2	12	2	55	125	16
8	117	18	24	22	9	61		18	13	12	80	64	16
9	58	7	49	8	4	72		10	32		8	12	24
10	35	18	6	13	14	131	16	3	40		73	28	22
11	24	21	19	7	3	73	14	5	21		189	58	23
12	40	19	47	3	1	77	4	55	33	2	143	36	42
13	27	16	18	8	3	10		9	25	4	227	3	2
14	58	12	7			14	8		5		99	1	4
15	46	19	5		6	40	4	1	11			9	18
16	103	2	3	8		8	4		6				
17	9	4	21		10	27	4	17	10			3	1
18	81	29	4	4	6	35	8	10	10			5	4
19	40	15	29		7	23	8	16	20			3	10
20	42	13	6	8				24	26			17	
21	33	10	8		4	44	4	20	18			16	4
22	18	15	16	4	4	16		32				9	20
23	20	8	22		12	20	12	12	22			2	10
24	24	9	14	15		48	2	26	26			6	9
25	9	12			3	29	4	20	3		4		8
26	18	12	23			56						3	

TABLE III: PROTECTIVE SUPPORT REQUIREMENTS OF NON-STEALTH AIRCRAFT

(4 data pages)

GLOSSARY OF TERMS:

"Packages": task forces

"Strikers": aircraft loaded with air-to-ground weapons.

X Border Support: non-strikers that penetrate Iraq/Kuwait airspace.

Support: non-strikers that remain in safe airspace.

ESC: dual-purpose aircraft armed only for escort.

WW: non-dedicated aircraft in defense-suppression ("Wild Weasel") configurations.

REPRESENTATIVE PACKAGES - DAY 1-14

SOURCE: ATO

F-16

STRIKERS

24 F-16

X BORDER SUPPORT

4 F-15

4 F-4G

2 EF-111

SUPPORT

11 KC-135

TOTALS

STRIKE = 24

SUPPORT = 21

PKG #FA, DAY 9

SCUD PROD FAC

2 x Mk84

F/A-18

STRIKERS

8 F/A-18

X BORDER SUPPORT

2 F/A-18(ESC)

4 F/A-18(WW)

2 EA-6B

SUPPORT

3 KC-135

2 KA-6

1 E-2C

TOTALS

STRIKE = 8

SUPPORT = 14

PKG #AB, DAY 9

REP GUARD ARTY

"BEST"

REPRESENTATIVE PACKAGES - DAY 1-14

SOURCE: CENTAF ATO

F-111

STRIKERS

20 F-111

X BORDER SUPPORT

8 F-15

2 F-4G

2 EF-111

SUPPORT

11 KC-135

TOTALS

STRIKE ■ 20

SUPPORT ■ 23

PKG #KA, DAY 11

AFLD

8 x CBU-87

A-6E

STRIKERS

6 A-6E

X BORDER SUPPORT

4 F-14

4 F/A-18(WW)

2 EA-6B

SUPPORT

3 KC-135

1 E-2C

TOTALS

STRIKE ■ 6

SUPPORT ■ 14

PKG #AAN, DAY 9

SAD63, SC36

"BEST"

REPRESENTATIVE PACKAGES - DAY 15-28

SOURCE: ATO

F-16

STRIKERS

12 F-16

X BORDER SUPPORT

NONE

SUPPORT

2 KC-135

TOTALS

STRIKE = 12

SUPPORT = 2

PKG #JAF, DAY 20

KTO/REP GDs

4 ACFT = 6xMk82

8 ACFT = 4xMk20

F/A-18

STRIKERS

4 F/A-18

X BORDER SUPPORT

1 EA-6B

SUPPORT

2 KA-6

TOTALS

STRIKE = 4

SUPPORT = 3

PKG #GAN, DAY 28

KTO/III CORPS

"BEST"

REPRESENTATIVE PACKAGES - DAY 15-28

SOURCE: ATO

F-111

STRIKERS

20 F-111

X BORDER SUPPORT

2 F-15

6 F-4G

3 EF-111

SUPPORT

7 KC-135

TOTALS

STRIKE = 20

SUPPORT = 18

PKG #BCF, DAY 26

BAGDAD AREA

2xGBU-10

A-6E

STRIKERS

4 A-6E

X BORDER SUPPORT

2 F-14

1 S-3B

1 EA-6B

SUPPORT

1 E-2C

TOTALS

STRIKE = 4

SUPPORT = 5

PKG #QBN, DAY 22

BASRA AREA

"BEST"

Desert Storm Ordnance \$

Desert Storm Ordnance Dropped with Costs					
Ordnance Figures supplied (unofficially) by Luttwak					
Cost figures from 1990 USAF Weapons file.					
Some cost figures estimated (by analogy)					
Weapon	Number	Wt. Each	Tons	\$/each	Cost
Mk82	64,698	500	16,175	498	32,219,604
Mk83	10,125	1,000	5,063	1,000	10,125,000
Mk84	11,179	2,000	11,179	1,871	20,915,909
M117	34,808	750	13,053	253	8,806,424
			0		0
Mk20	27,735	500	6,934	3,449	95,658,015
UK1000	288	1,000	144	1,000	288,000
					0
CBU78 (Gator)	215	1,000	108	13,900	2,988,500
CBU89	1,107	710	393	39,400	43,615,800
CBU 52/58/71	17,029	800	6,812	1,542	26,258,718
CBU 87	10,815	950	5,137	13,900	150,328,500
	177,999		64,996	2	391,204,470
			Dollars Per Pound		3.01
GBU10	2,263	2,000	2,263	22,000	49,786,000
GBU15	71	2,000	71	300,000	21,300,000
GBU24	284	2,000	284	65,000	18,460,000
GBU10/I2000	403	2,000	403	22,000	8,866,000
GBU24/I2000	877	2,000	877	65,000	57,005,000
GBU12	4,542	500	1,136	9,000	40,878,000
GBU16	208	1,000	104	32,000	6,656,000
	8,648		5,138		202,951,000
			Dollars Per Pound		19.75
Total Effort	186,647		70,133		594,155,470
Dumb	95.37%		92.67%		65.84%
Smart	4.63%		7.33%		34.16%

Not yet complete

*APR 24 10-12 AM
(Pentagon)*