

MCWP 3-16.1 Marine Artillery Operations

Appendix K

Section 1

Planning Data for Headquarters Battery, Artillery Regiment

PERSONNEL

	E1-E5	E6-E9	W1-W4	O1-O3	O4-O6	Totals
USMC	284	51	9	12	9	365
USN	5	2	0	0	3	10
Totals	<u>289</u>	<u>53</u>	<u>9</u>	<u>12</u>	<u>12</u>	<u>375</u>

T/O # 1101H dtd 28 Feb 94

Selected Major Equipment

Item	Authorized	Embarkation Data		Cargo Capacity for Authorized Qty		
	Quantities	Ft ²	Lbs	Ft ³ *	Gals	Lbs
M923 Truck, Cargo, 5-ton	57	11,856	1,304,046	26,904		570,000
M936, Truck, Wrecker, 5-ton	2	470	76,932			
M105A1 Trailer, 1½-ton	25	2,400	66,750	3555**		75,000
M149 Trailer, Water	2	202	5,060		800	
M998 Truck, Utility	45	4,770	227,700	3,983		112,500
AN/MRC 145 Radio Set	9	954	46,800			
AN/MRC 142 Radio Set	4	424	20,800			
AN/MRC 138 Radio Set	9	954	46,800			
JOM-1 Steam Cleaner	2	70	2,200			
M101A1 Trailer	15	1,140	20,250	2,595		22,500
M1305 Truck, Ambulance	1	106	5,361			
AN/TPQ-36 Firefinder Radar	5	795	28,125			

* Cargo capacity under bows. For other loading heights see NAVFAC P-1055

** Cargo capacity to top of side racks. For other loading heights see NAVFAC P-1055

MCWP 3-16.1 Marine Artillery Operations

Class V Small Arms Combat Planning Rates

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
A059/5.56 mm Ball	99,050	3,771	1,119	1,734	1,084	2,796	1,100
A061/5.56 mm Tracer	2,830	1,843	311	467	257	1,184	281
A064/5.56 mm 4&1 Linked	0	0	0	0	0	0	0
A131/7.62 mm 4&1 Linked	10,400	440	74	911	119	673	100
A363/9 mm	2,700	91	71	78	73	85	72
A518/.50 Cal SLAP 4&1 Linked	2,000	154	85	34	57	94	69
A576/.50 Cal 4&1 Linked	4,000	1,765	974	386	647	1,080	787
B504/40 mm Green Star Parachute	8	11	1	11	1	11	1
B505/40mm Red Star Parachute	8	11	1	11	1	11	1
B506/40 mm Red Smoke	7	6	1	6	1	6	1
B508/40 mm Green Smoke	13	6	1	6	1	6	1
B509/40 mm Yellow Smoke	7	6	1	6	1	6	1
B535/40 mm White Star Parachute	52	13	1	13	1	13	1
B542/40 mm LKD	2,880	353	177	196	165	275	170
B546/40 mm HEDP	468	29	30	25	31	27	30
G881/Gren Fragmentation	75	20	14	19	17	19	16
G900/Gren Incendiary	4	1	1	1	1	1	1
G940/Gren Green Smoke	12	1	1	1	1	1	1
G945/Gren Yellow Smoke	12	1	1	1	1	1	1
G950/Gren Red Smoke	12	1	1	1	1	1	1
G930/Gren HC Smoke	12	1	1	1	1	1	1
G960/Gren Violet Smoke	12	1	1	1	1	1	1
L603/Sig Red Star Cluster	9	1	1	1	1	1	1
L307/Sig White Star Cluster	9	1	1	1	1	1	1
L311/Sig Red Star Parachute	9	1	1	1	1	1	1
L312/Sig White Star Parachute	9	1	1	1	1	1	1
L314/Sig Green Star Cluster	9	1	1	1	1	1	1
L323/Sig Smk Ground RP	9	1	1	1	1	1	1
L324/Sig Smk Ground GP	9	1	1	1	1	1	1
L495/Flare Trip	8	2	1	1	2	1	2

NOTE: Rounds have been rounded up to the nearest whole figure.

Ammunition figures based on the following numbers of weapons per battery M-16 283, M9 90, M-240G 13, M-2 10, Mk-19 10, M203 26.

Personnel figures based on T/O 1101H dtd 28 Feb 94

MCWP 3-16.1 Marine Artillery Operations

Section 2

Planning Data for Headquarters Battery, Artillery Battalion

PERSONNEL						
	E1-E5	E6-E9	W1-W4	O1-O3	O4-O5	Totals
USMC	137	30	5	12	6	190
USN	3	1	0	5	0	9
Totals	<u>141</u>	<u>31</u>	<u>5</u>	<u>17</u>	<u>6</u>	<u>199</u>

T/O # 1142G dtd 28 Feb 94

Selected Major Equipment

Items	Authorized	Embarkation Data		Cargo Capacity for Authorized Qty		
	Quantities	Ft ²	Lbs	Ft ³ *	Gals	Lbs
M923 Truck, Cargo, 5-ton	10	2,080	228,780	4,550		100,000
M936, Truck, Wrecker, 5-ton	2	470	76,932			
M105A1 Trailer, 1½-ton	4	384	10,680	1,112		12,000
M101A3, Trailer	12	912	16,200	2,076		18,000
M149 Trailer, Water	2	202	5,060		800	
M998 Truck, Utility	18	1,908	91,080	1422**		45,000
AN/MRC 145 Radio Set	6	636	31,200			
AN/MRC 138 Radio Set	5	530	26,750			
JOM-1 Steam Cleaner	2	70	2,200			
M1305 Truck, Ambulance	1	106	5,361			
MC 4000 Forklift	2	227	16,000			

* Cargo capacity under bows. For other loading heights see NAVFAC P-1055.

** Cargo capacity to top of side racks. For other loading heights see NAVFAC P-1055

MCWP 3-16.1 Marine Artillery Operations

Class V Small Arms Combat Planning Rates Composite Threat

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
A059/5.56 mm Ball	45,850	1,745	518	803	502	1,294	509
A061/5.56 mm Tracer	1,310	853	144	217	119	548	131
A064/5.56 mm 4&1 Linked	6,400	1,942	441	214	371	1,105	402
A131/7.62 mm 4&1 Linked	3,200	136	23	281	37	207	31
A363/9 mm	1,800	61	48	53	49	57	48
A518/.50 Cal SLAP 4&1 Linked	800	62	34	14	23	38	28
A576/.50 Cal 4&1 Linked	1,600	706	390	155	259	432	315
B504/40 mm Green Star Parachute	3	5	1	4	1	4	1
B505/40mm Red Star Parachute	3	5	1	4	1	4	1
B506/40 mm Red Smoke	3	2	1	2	1	2	1
B508/40 mm Green Smoke	5	2	1	2	1	2	1
B509/40 mm Yellow Smoke	3	2	1	2	1	2	1
B535/40 mm White Star Parachute	20	5	1	5	1	5	1
B542/40 mm Linked	1,152	142	71	79	66	110	68
B546/40 mm HEDP	180	11	12	10	12	11	12
G881/Gren Fragmentation	75	11	8	10	9	11	9
G900/Gren Incendiary	4	1	1	1	1	1	1
G940/Gren Green Smoke	12	1	1	1	1	1	1
G945/Gren Yellow Smoke	12	1	1	1	1	1	1
G950/Gren Red Smoke	12	1	1	1	1	1	1
G930/Gren HC Smoke	12	1	1	1	1	1	1
G960/Gren Violet Smoke	12	1	1	1	1	1	1
L603/Sig Red Star Cluster	9	1	1	1	1	1	1
L307/Sig White Star Cluster	9	1	1	1	1	1	1
L311/Sig Red Star Parachute	9	1	1	1	1	1	1
L312/Sig White Star Parachute	9	1	1	1	1	1	1
L314/Sig Green Star Cluster	9	1	1	1	1	1	1
L323/Sig Smk Ground RP	9	1	1	1	1	1	1
L324/Sig Smk Ground GP	9	1	1	1	1	1	1
L495/Flare Trip	8	2	1	1	2	1	2

NOTE: Rounds have been rounded up to the nearest whole figure.

Ammunition figures based on the following numbers of weapons per battery. M-16 131, M9 60, M-240G 4, M-2 4, Mk-19 4, SAW 8, M203 10

Personnel figures based on T/O 1142G dtd 28 Feb 94

MCWP 3-16.1 Marine Artillery Operations

Section 3

Planning Data for M-198 Battery (6-Gun)

PERSONNEL

	E1-E5	E6-E9	O1-O3	Totals
USMC	123	13	8	144
USN	3	—	—	3
Totals	126	13	8	147

T/O # 1113G dtd 28 Feb 94

Selected Major Equipment

Items	Authorized	Embarkation Data		Cargo Capacity for Authorized Qty		
	Quantities	Ft ²	Lbs	Ft ³ *	Gals	Lbs
M923 Truck, Cargo, 5-ton	16	3,328	366,048	7,280		160,000
M101A3, Trailer	5	380	67,500	865		7,500
M105A1 Trailer, 1½-ton	8	768	21,360	2,224		24,000
M149 Trailer, Water	1	101	2,530		400	
M998 HMMWV	5	528	25,300	395**		25,000
M1043 HMMWV (Armored)	3	318	17,931			14,500
AN/MRC 145 Radio Set	4	424	20,800			
MC 4000 Forklift	1	114	8,000			
M198 Medium Towed Howitzer	6	1,197	93,600			

* Cargo capacity under bows. For other loading data see NAVFAC P-1055

** Cargo capacity to top of side racks. For other loading data see NAVFAC P-1055

MCWP 3-16.1 Marine Artillery Operations

Class V Small Arms Combat Planning Rates

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
A059/5.56 mm Ball	40,950	1,559	463	717	448	1,156	455
A061/5.56 mm Tracer	1,170	762	129	193	106	490	117
A064/5.56 mm 4&1 Linked	0	0	0	0	0	0	0
A131/7.62 mm 4&1 Linked	3,200	136	23	281	37	207	31
A363/9 mm	900	31	24	27	25	29	24
A518/.50 Cal SLAP 4&1 Linked	800	62	34	14	23	38	28
A576/.50 Cal 4&1 Linked	1,600	706	390	155	259	432	315
B504/40 mm Green Star Parachute	3	5	1	4	1	4	1
B505/40mm Red Star Parachute	3	5	1	4	1	4	1
B506/40 mm Red Smoke	3	2	1	2	1	2	1
B508/40 mm Green Smoke	5	2	1	2	1	2	1
B509/40 mm Yellow Smoke	3	2	1	2	1	2	1
B535/40 mm White Star Parachute	20	5	1	5	1	5	1
B542/40 mm HEDP LKD	1,152	142	71	79	66	110	68
B546/40 mm HEDP	180	11	12	10	12	11	12
G881/Gren Fragmentation	75	8	6	8	7	8	6
G900/Gren Incendiary	4	1	1	1	1	1	1
G940/Gren Green Smoke	12	1	1	1	1	1	1
G945/Gren Yellow Smoke	12	1	1	1	1	1	1
G950/Gren Red Smoke	12	1	1	1	1	1	1
G930/Gren HC Smoke	12	1	1	1	1	1	1
G960/Gren Violet Smoke	12	1	1	1	1	1	1
L603/Sig Red Star Cluster	9	1	1	1	1	1	1
L307/Sig White Star Cluster	9	1	1	1	1	1	1
L311/Sig Red Star Parachute	9	1	1	1	1	1	1
L312/Sig White Star Parachute	9	1	1	1	1	1	1
L314/Sig Green Star Cluster	9	1	1	1	1	1	1
L323/Sig Smk Ground RP	9	1	1	1	1	1	1
L324/Sig Smk Ground GP	9	1	1	1	1	1	1
L495/Flare Trip	8	2	1	1	2	1	2

NOTE: Rounds have been rounded up to the nearest whole figure.

Ammunition figures based on the following numbers of weapons per battery. M-16 117, M9 30, M-240G 4, M-2 4, Mk-19 4, SAW 6, M203 10

Personnel figures based on T/O 1113G dtd 28 Feb 94

MCWP 3-16.1 Marine Artillery Operations

Class V Artillery Ammunition Combat Planning Rates

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
D501/Proj ADAM-L	5	2	1	3	2	3	1
D502/Proj ADAM-S	9	11	2	6	3	8	2
D505/Proj ILLUM M485A2	5	3	1	2	1	3	1
D510/Proj COPPERHEAD	1	2	1	1	1	1	1
D514/Proj RAAMS-S	4	6	3	7	2	6	2
D515/Proj RAAMS-L	2	1	2	1	3	1	3
D528/Proj SMOKE M825	36	4	2	4	2	4	2
D544/Proj HE	198	78	20	44	15	60	17
D550/Proj WP	12	10	3	9	2	9	2
D563/Proj DPICM	190	19	4	37	3	29	4
D579/Proj HE RAP	78	78	20	44	15	60	17
D864/Proj DPICM BB	137	19	4	37	3	29	4
Projectile Subtotals	677	233	63	195	52	213	56
D532/Prop M203 RB	243	107	26	89	20	98	22
D533/Prop M119A1/A2	122	35	10	30	8	32	9
D540/Prop M3A1 GB	64	19	5	16	5	18	5
D541/Prop M4A2 WB	313	89	24	75	20	82	21
Propellant Subtotals	742	250	65	210	53	230	57
N289/Fz ET M762 ¹	404	65	18	99	16	83	17
N290/Fz ET M767 ²	35	27	7	17	5	22	6
N291/Fz VT M732A2 ³	50	20	5	11	4	15	5
N340/Fz PD M739 ⁴	218	127	32	72	24	99	27
N569/Fz CP Mk 399-1	4	2	1	1	1	2	1
Fuze Subtotals	711	241	63	200	50	221	56
N523/Primer M82	740	249	63	208	50	228	56

* Rounds and weights have been rounded up to the nearest whole figure.

1. N285/Fz MTSQ M577 may be substituted.
2. N286/Fz MTSQ M582 or N278/Fz MTSQ M564 may be substituted.
3. N264/Fz VT M732 may be substituted in deep-well projectiles.
4. N335/Fz PD M557 or N311/Fz PD M572 may be substituted

MCWP 3-16.1 Marine Artillery Operations

Section 4

Planning Data for Artillery Battalion

	PERSONNEL					Totals
	E1-E5	E6-E9	W1-W4	O1-O3	O4-O5	
USMC	507	69	5	36	6	623
USN	12	1	0	5	0	18
Totals	519	70	5	41	6	641

T/O # 1142G and 1113G dtd 28 Feb 94

Selected Major Equipment

Items	Authorized	Embarkation Data		Cargo Capacity for Authorized Qty		
	Quantities	Ft ²	Lbs	Ft ³ *	Gals	Lbs
M923 Truck, Cargo, 5-ton	58	12,064	1,326,924	26,390		580,000
M936, Truck, Wrecker, 5-ton	2	470	76,932			
M105A1 Trailer, 1½-ton	28	2,688	74,760	7,784		84,000
M101A3, Trailer	27	2,052	36,450	4,671		40,500
M149 Trailer, Water	5	505	12,650		2,000	
M998 Truck, Utility	33	3,485	166,980	2607**		165,000
M1043 HMMWV (Armored)	9	954	53,793			
AN/MRC 145 Radio Set	18	1,908	93,600			
AN/MRC 138 Radio Set	5	530	26,750			
JOM-1 Steam Cleaner	2	70	2,200			
M1305 Truck, Ambulance	1	106	5,361			
MC 4000 Forklift	5	570	40,000			
M198 Medium Towed Howitzer	18	3,591	280,800			

* Cargo capacity under bows. For other loading heights see NAVFAC P-1055

** Cargo capacity to top of side racks. For other loading heights see NAVFAC P-1055

MCWP 3-16.1 Marine Artillery Operations

Class V Small Arms Combat Planning Rates

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
A059/5.56 mm Ball	168,700	6,422	1,906	2,952	1,845	4,761	1,873
A061/5.56 mm Tracer	4,820	3,138	530	796	437	2,017	479
A064/5.56 mm 4&1 Linked	6,400	1,942	441	214	371	1,105	402
A131/7.62 mm 4&1 Linked	12,800	541	91	1,121	147	828	123
A363/9 mm	4,500	151	118	120	131	141	120
A576/.50 Cal 4&1 Linked	6,400	2,823	1,558	617	1,035	1,728	1,258
A518/.50 Cal SLAP 4&1 Linked	3,200	246	136	54	90	151	110
B504/40 mm Green Star Parachute	12	17	1	16	1	16	1
B505/40mm Red Star Parachute	12	17	1	16	1	16	1
B506/40 mm Red Smoke	10	8	1	8	2	8	1
B508/40 mm Green Smoke	20	8	1	8	2	8	1
B509/40 mm Yellow Smoke	10	8	1	8	2	8	1
B535/40 mm White Star Parachute	80	20	1	20	1	20	1
B542/40 mm Linked	4,608	565	284	314	264	440	272
B546/40 mm HEDP	720	44	45	39	47	42	46
G881/Gren Fragmentation	300	33	24	32	29	33	27
G900/Gren Incendiary	16	1	1	1	1	1	1
G940/Gren Green Smoke	48	4	2	4	2	4	2
G945/Gren Yellow Smoke	48	2	1	4	2	3	1
G950/Gren Red Smoke	48	5	2	5	2	5	2
G930/Gren HC Smoke	48	2	1	2	1	2	1
G960/Gren Violet Smoke	48	7	3	5	2	6	2
L603/Sig Red Star Cluster	36	1	1	1	1	1	1
L307/Sig White Star Cluster	36	1	1	1	1	1	1
L311/Sig Red Star Parachute	36	1	1	1	1	1	1
L312/Sig White Star Parachute	36	1	1	1	1	1	1
L314/Sig Green Star Cluster	36	1	1	1	1	1	1
L323/Sig Smk Ground RP	36	1	1	1	1	1	1
L324/Sig Smk Ground GP	36	1	1	1	1	1	1
L495/Flare Trip	128	3	9	3	8	3	8

NOTE: Rounds have been rounded up to the nearest whole figure.

Ammunition figures based on the following numbers of weapons. M-16 482, M9 150, M-240G 16, M-2 16, Mk-19 16, SAW 26

Personnel figures based on T/O 1142G and 1113G dtd 28 Feb 94

MCWP 3-16.1 Marine Artillery Operations

Class V Artillery Ammunition Combat Planning Rates

DODIC/Description	Basic Allowance	Armor Heavy		Infantry Heavy		Composite	
		Assault	Sustained	Assault	Sustained	Assault	Sustained
D501/Proj ADAM-L	14	5	2	8	4	7	3
D502/Proj ADAM-S	27	32	4	18	8	24	6
D505/Proj ILLUM M485A2	13	8	3	5	3	7	3
D510/Proj COPPERHEAD	2	4	1	2	1	3	1
D514/Proj RAAMS-S	11	16	9	19	5	17	6
D515/Proj RAAMS-L	6	1	6	3	7	2	7
D528/Proj SMOKE M825	108	12	6	11	5	11	6
D544/Proj HE	593	232	58	131	44	180	49
D550/Proj WP	36	29	7	25	6	27	6
D563/Proj DPICM	569	57	12	111	9	85	10
D579/Proj HE RAP	234	232	58	49	131	180	49
D864/Proj DPICM BB	410	57	12	111	9	85	10
Projectile Subtotals	2,023	685	178	575	145	628	156
D532/Prop M203 RB	729	319	77	267	58	292	66
D533/Prop M119A1/A2	364	105	28	88	23	96	25
D540/Prop M3A1 GB	190	57	15	48	13	53	13
D541/Prop M4A2 WB	937	267	70	223	58	244	63
Propellant Subtotals	2,220	748	190	626	152	685	167
N289/Fz ET M762 ¹	1,211	194	53	296	47	247	50
N290/Fz ET M767 ²	104	80	20	51	15	65	17
N291/Fz VT M732A2 ³	149	58	15	33	11	45	13
N340/Fz PD M739 ⁴	654	379	94	216	71	295	80
N569/Fz CP Mk 399-1	12	5	2	3	1	4	1
Fuze Subtotals	2,130	716	184	599	145	656	161
N523/Primer M82	2,219	747	189	624	150	684	165

* Rounds and weights have been rounded up to the nearest whole figure.

1. N285/Fz MTSQ M577 may be substituted.

2. N286/Fz MTSQ M582 or N278/Fz MTSQ M564 may be substituted.

3. N264/Fz VT M732 may be substituted in deep-well projectiles.

4. N335/Fz PD M557 or N311/Fz PD M572 may be substituted

MCWP 3-16.1 Marine Artillery Operations

Section 5

Ammunition Packing Dimensions

Artillery Ammunition

Projectiles					
DODIC	Nomenclature	# of Rounds	Weight (lbs)	Dimensions (in)*	Cube (ft ³)
D501	ADAM-L (M692)	8	887	39 3/8 x 14 1/2 x 29	9.7
D502	ADAM-S (M731)	8	887	39 3/8 x 14 1/2 x 29	9.7
D505	ILLUM M485A2	8	783	27 1/8 x 13 5/8 x 32	6.8
D510	COPPERHEAD (M712)	6	1,358	61 x 33 x 27 1/2	32
D514	RAAMS-S (M741)	8	882	39 3/8 x 14 5/8 x 29 1/8	9.7
D515	RAAMS-L (M718A1)	8	882	39 3/8 x 14 5/8 x 29 1/8	9.7
D528	SMOKE, WP (M825A1)	8	874	39 3/8 x 14 1/2 x 29	9.7
D544	HE (M107)	8	798	27 1/8 x 13 5/8 x 32	6.8
D550	SMOKE, WP (M110A2)	8	829	27 1/8 x 13 5/8 x 32	6.8
D563	DPICM (M483A1)	8	874	39 3/8 x 14 1/2 x 29	9.7
D579	HE, RAP (M549A1)	8	816	38 3/4 x 14 5/8 x 29 1/8	9.5
D864	DPICM, BB (M864)	8	870	39 3/8 x 14 1/2 x 29	9.7
Propellants					
DODIC	Nomenclature	# of Rounds	Weight (lbs)	Dimensions (in)*	Cube (ft ³)
D532	M203 RB	1	56		
D533	M119A1/A2	1	45		
D540	M3A1 GB	2	29		
D541	M4A2 WB	1	27		
Fuzes					
DODIC	Nomenclature	# of Rounds	Weight (lbs)	Dimensions (in)*	Cube (ft ³)
N289	Fz ET M762	16	47	14.62 x 13.90 x 8.56	1.0
N290	Fz ET M767	16	47	14.62 x 13.90 x 8.56	1.0
N291	Fz VT M732A2	16	47	14.62 x 13.90 x 8.56	1.0
N340	Fz PD M739	16	47	14.62 x 13.90 x 8.56	1.0
N569	Fz CP Mk 399-1	16	47	14.62 x 13.90 x 8.56	1.0
Primers					
DODIC	Nomenclature	# of Rounds	Weight (lbs)	Dimensions (in)*	Cube (ft ³)
N523	Primer M82	400	34	17.38 x 11.5 x 8.12	0.9

MCWP 3-16.1 Marine Artillery Operations

Small Arms

DODIC/Description	Package Data		
	Rounds	Ft ³	Lbs
A064/5.56mm 4&1 Linked	1600	1.2	47
A063/5.56mm Tracer	1640	1.0	67
A071/5.56mm Ball	1680	1.0	70
A131/7.62mm 4&1 Linked	800	.8	75
A363/9mm Ball	2400	3.9	72
A518/.50 Cal SLAP 4&1 Linked	220	1.3	86
A576/.50 Cal 4&1 Linked	220	1.3	86
B504/40mm Green Star Parachute	44	1.0	48
B505/40mm Red Star Parachute	44	1.0	48
B506/40mm Red Smoke	44	1.0	57
B508/40mm Green Smoke	44	1.0	57
D509/40mm Yellow Smoke	44	1.0	57
B535/40mm White Star Parachute	44	1.0	57
B546/40mm HEDP	72	1.6	53
B542/40mm Linked	72	1.4	125
G881/Gren Fragmentation	30	1.4	51
G900/Gren Incendiary	16	0.8	47
G930/Gren HC Smoke	16	0.8	42
G940/Gren Green Smoke	16	0.8	34
G945/Gren Yellow Smoke	16	0.8	34
G950/Gren Red Smoke	16	0.8	42
G960/Gren Violet Smoke	16	0.8	34
L306/Sig Red Star Cluster	36	1.6	56
L307/Sig White Star Cluster	36	1.6	56
L311/Sig Red Star Parachute	36	1.4	67
L312/Sig White Star Parachute	36	1.4	67
L314/Sig Green Star Cluster	36	1.5	56
L323/Sig Smk Ground RP	36	1.5	56
L324/Sig Smk Ground GP	36	1.5	56
L495/Flare Trip	32	1.8	47