





DAMAGE, MEDICAL TABLES

TORSO CHART



BODY PERCENTAGES

BODY PART	PERCENTAGE	DECIMAL EQUIVALENT
Torso	38%	.38
Leg (each)	19%	.19
Thigh	8%	.08
Call	5%	.05
Foot	4%	.04
Hip Joint	1%	.01
Knee	1%	.01
Ankle	1%	.01
Arm (each)	9%	.09
Upper arm	2%	.02
Lower arm	2%	.02
Shoulder joint, Hand, Elbow and Wrist	1%	,01
Head	6%	.06

DEATH PERCENTAGES

HEAD DAMAGE	DEATH %
Do GREATER THAN 5	90%
Dp LESS THAN OR EQUAL TO 5	75%
Dp OF 1	10%
CHANCE OF DECAPITATION	% CHANCE
DP GREATER THAN OR EQUAL TO 10	25%
CHANCE OF UNCONSCIOUSNESS	
Dp	% CHANCE
Dp GREATER THAN OR EQUAL TO 6	95%
Dp LESS THAN 6	50%

Note; Unconsciousness lasts for at least 1D20 + 20 turns, minus 1 turn for each point of constitution the character has.

TORSO DAMAGE, DEATH PERCENTAGE

\$ S. (+)

ZONE	Dp LESS THAN 16	Dp 16 OR GREATER	Dp 35 OR GREATER
	60%	90%	99% .
2	40%	70%	80%
3	20%	40%	50%
4	10%	30%	40%

A strike on a limb of over 10 Dp has a 25% chance of amputation (this includes the throat). Any strike on a limb has a 16% (roll 1 on 1D6) chance of striking a major blood vessel and rupturing it.

BODY HITS ROLL 10100DIEAREAROLLHIT1-5Head5Neck7Right Hand6" Wrist0.10" Lower arm11" Elbow12-13" Upper arm14" Shoulder joint15Left Hand16" Wrist17-18" Lower arm19* Elbow20-21" Upper arm22" Shoulder joint23-20Right Foot27" Ankle28-32" Calf33" Knee34-41" Thigh42" Hip joint43-46Left Foot47" Ankle8-52" Calf53" Knee54-61" Thigh62" Hip joint63-71Torso Area 472-80" Area 381-90" Area 291-00" Area 1		
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WOUND SHOCK

Dp	CHANCE OF UNCONSCIOUSNESS	ROLL OF 1D6 FOR UNCONSCIOUSNESS
14	16%	1 1
5 OR MORE	32%	1,2
10 OR MORE	64%	1,2,3,4

Unconsciousness lasts for 1D20 + 20 turns* minus one turn for each point of constitution the character has.

* In most cases a turn means a combat turn, GM's discretion. Note; The wound shock table is not used in the case of a head wound.

BLOOD LOSS

SITUATION	SIMPLE WOUND	BLOOD VESSEL STRUCK OR LIMB AMPUTATION
NO ASSISTANCE	Dp x 3 turns	Dp x 5 turns
W/FIRST AID	Dp x 2 turns	Dp x 3 turns
W/ MEDICAL ATTN	, Dp	Dp x 2 turns

NPC FAST KILL

HIT WIT	TH SINGLE SHOT		TH AREA WEAPON, UN, OR AUTOMATIC N
DIE		DIE	
ROLL	EFFECT ON NPC	ROLL	EFFECT ON NPC
1-2	No effect on combat. May complete 2 actions	1-2	May complete 2 actions next turn before death.
	next turn before death.	3-4	May complete 1 action before death.
5-7	May complete 1 action before death.	5-10	Immediate death.
8-10	Immediate death.		

ACCURACY, HITTING THE TARGET

#1 ACCURACY

INDIVIDUALS

ACCURACY 0 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 OR LESS TO HIT 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 OR MORE TO MISS 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20

#2 RANGE AND VISIBILITY

Situation	Point Blank 0-10m	Short 10-50m	Range Medium 50-250m	Long 250- Max, Eff.	Extreme Max. Eff Max. Rrig.
Can See	+2	+1	Normal	-1	Luck
Can hear, Can see vaguely	+1	Normai	.1	Luck	N/E
Cannot hear, can see vaguely	Normal	-1	Luck	N/E	N/E
Cannot see, can hear	-1	Luck	N/E	N/E	N/E
Cannot see or hear	Luck	N/E	N/E	N/E	N/E

N/E-No Engagement, the target is to far away for there to be a reasonable chance to hit it. If an attempt is made anyway roll 1D100 on a 00 Luck may be used.

#3 RANGE AND WEAPON MODIFER

Weapon	Point Blank	Short	Range Medium	Long	Extreme
SHOTGUN	+4	+2	Normal	N/E	N/E
MACHINEGUN*	+2	+2	+1	+1	Normal
SUBMACHINEGUN*	+2	+1	Normal	N/E	N/E
ASSAULT RIFLE*	+2	+2	+1	Normal	Normal
SINGLE SHOT	Normal	Normal	Normal	Normal	Normal
PISTOL	Normal	Normal	Luck	N/E	N/E
TELESCOPIC SIGHT	* Normal	Normal	+2	+1	+1
MACHINE SHOTGUN	*+8	+4	+1	N/E	N/E
GUIDED MISSILE	.2	Normal	+4	+6	N/E

Points per short burst. Add 1 point for each multiple of the burst on one target (i.e. Medium burst = +1, Long burst = +2).
 Includes starlight scope, must be mounted on weapon. N/E - No Engagement, in this case the projectile cannot normally reach the target due to the range being to long.

#4 HEARING

Range short or less, roll 1D10, if the number rolled is in the range shown on the following chart the other party is heard.

SITUATION	TERRAIN					
	BRUSH	ROCKY	WET	SANDY	INSIDE BUILDING	
Both moving	1-4	1-2	1-3	1	1.3	
Their moving your not moving	1-8	1.3	1-6	1-2	1-5	
Their not moving, your moving	1-2	1	1	Luck	Luck	
Neither Moving	1	Luck	1	Luck	1	

#5 FIRER OR TARGET MOVEMENT

SITUATION	SLOW (WALK) 1-8 kph	MEDIUM (JOG) 8-16kph	QUICKLY (RUN) 16-24kph	FAST (DEAD RUN 25-48+kph
Their moving, your not moving		-1	-2 *	4
Your moving, their not moving	-1	2	4	-6
Your both movin	ng -2	4	-6	-8

#6 TARGET SIZE

SIZE		
¼ MANSIZE	(Lying prone or shooting over an obstacle,	MODIFIER
firing	tripod mounted heavy gun)	-4

 ½ MANSIZE (Kneeling or shooting through a window, standing in turrent of vehicle)
 -2

MANSIZE		· · (
1 % MANSIZE	the second se	.+.
2xMANSIZE		+ :
2 1/2 xMANSIZE		+:
3xMANSIZE	Canada and a second sec	+ 4
4xMANSIZE (M	ost vehicles)	+1

#7 FIRING TERRAIN

TERRAIN	MODIFIER
GRASSLAND, DESERT, WATER	0
FORESTS, HEAVY BRUSH	-2
ROCKY, MOUNTAINOUS	-1
MARSH, SWAMPLAND	-1
BUILT-UP (Cities)	-2

#8 LUCK

Roll 1D20 and 1D6. On an odd roll on 1D6 (1,3,5) and if the results of the roll of 1D20 is less than the persons luck they receive a "lucky" hit on their target.

#9 AUTOMATIC FIRE

When firing a weapon on full automatic a short burst is needed for each target.* For two targets a medium burst (two short bursts) would have to be fired, and so on. Accuracy to hit must be rolled for each target. The number of bullets hitting the target is found by using the following table.

WEAPON	SHORT BURST	DIE ROLL EQUAL TO
Submachineguns, Carbines,		BULLETS HIT
Assault Rifles	4 rds	1D4
Light Machineguns	6 rds	1D6
Heavy Machineguns	10 rds	1D10
Machine Shotguns	4 rds	1D4 see Shotguns
Shotguns	12 "bullets	pr
	per shell	1D12 per shell
Grenade Launchers (w/ M576E2 Multiple		
Projectile)	20	1D20

EXPLOSIVE DAMAGE

The following table lists the whole body damage points (Dpw) caused by contact with the explosion of various items of ordnance. The Dpw go down by 100 points for each meter distance from the point of detonation.

EXPLOSIVE DAMAGE POINTS

EXPLOSIVE	Dpw	EXPLOSIVE	Dpw
M112 C-4	1300	20mm M56A1 HE	40
M183 Demolition charge	20,800	81mm M374A2 HE	1,240
Mk3A2 Grenade	295	2.75 in. Rocket	2,600
M26A1 Grenade	232	M47 Dragon	3,120
Primercord	10 (per m)	M151E2 TOW	3,120
Blasting cap	1	Stinger	2,900
M72A2 LAW, ARMBRU	ST		
300	533	Chapparal	13,260
40mm M381 HE	100	Maverick	76,700
40mm M433 HEDP	120	M19 AT mine	20,355
M25 AP mine	20	M18A1 Claymore mine	1,460
M16A1 AP mine	888	and the second se	

ARMOR CLASS

ARMOR CLASS	CM. OF STEEL	CM. OF WOOD	CM. OF CONCRETE		MATERIAL
A			•		Skin
BC	•	-		•	Cloth (heavy)
1		2.54	.03	-	Leather 13mm light
		2.04	.00	-	plastic
2	*	5.08	.5		13mm heavy
					plastic
3	.25	7.62	.76	•	Chain mail
4	.34	10.16	1.02	7.62	3mm Armor plate
6	.42	12.7	1.27	8.89	Nylon body armor
7	.57	17.78	1.79		Resistweve cloth
8	.64	20.32			6mm Fiberglass
					plate
9	.7	22.86			6mm Aluminim
-		-			plate
10	.76	25.4	3,18	16.51	
15	1.02	34.29	7.62	22.86	Kelvar vest
16			1.02	22,00	19mm Lexan
18					Fiberglass/
					Titanium plate
19					13mm Aluminium
20	1.27	45.72	10.16	30.48	
21		-	·	•	3mm Boron carb-
25	1.52	55.88	15.24	36.83	ide ceramic
30	1.79	66.04	19.05	43.18	
35	2.03	78.74	22.86	49.53	3mm Boron/carbon
					filament plate
40	-	88.9	29.21	55.88	
42	2.29	-	-	-	
40	2.54	99.06	34.29	60.96	
50	-	109.22	39.37	66.04	
55		121.92	45.72	71.12	
60		129.54	50.8	76.2	
65	3.18			•	
82	3.81	·	-	•	
90	4.06	190.5	91.44	106,68	
100	4.45	2		* 0	
160	6.35		5. •		
200	7.62				C. C
250	8.89		-		
300	10.16				and the second second
350	11.43		•	•	
400	12.7	*	*:	•	

ACTIONS

MOVEMENTS ACTIONS

Below is given a list of several common actions and the movements required to complete them. The list is by no means complete and is intended as a guide in determining other actions and their movement requirements.

the second second second	
1	Move
1	Mount/ Dismount
1	Draw weapon/equipment (each piece)
1	Fire weapon
1	Aim weapon (maximum accuracy)
1	Reload weapon (clip feed)
1	Holster or sheath weapon
1	Prepare explosive charge (set detonator)
1 .	Arm weapon (pull pin on grenade or detonator)
1	Throw weapon (grenade, knife, or explosive)
1	Prepare ammunition (arm fuse or shell)
2	Prepare disposable weapon for firing
2	Assemble weapon (attach scope, silencer, etc.) -
2	Clear action (work action or clear jam)
2	Open/Close hatch or door
3	Load revolver or belt fed weapon
3	Unpack weapon or ammunition (remove from carrying container, case, or crate)
3	Aim or re-aim mortar
3	Put on protective mask (gas mask)
6	Reload missile launcher (TOW or Dragon)
30	Don or remove powered armor (HAAM Suit)

PC/NPC RELATIONS

PC/NPC REACTIONS

				PC's (CHARI	SMA				
NPC's H&M	0-2	3-4	5-6	7-8	9-10	11-12	13-14	15-16	17-18	19-20
0-2	н	н	G	G	F .	F	E	E	D	D
3-4	н	G	G	F	F	E	E	D	D	С
5-6	G	G	F	F	E	E	D	D	С	С
7-8	G	F	F	E	E	D	D	С	С	8
9-10	F	F	E	E	D	D	С	C	8	B
11-12	F	E	E	D	D. •	С	С	C	B	8
13-14	E	E	D	D	С	С	С	в	В	В
15-16	E	D	D	С	С	С	в	8	в	A
17-18	D	D	С	С	B	8	B	8.	A	A
19-20	D	С	Ċ	8	B	B	8	A	A	A

RESULT DESCRIPTION OF RESULT

A Full cooperation, will volunteer information to questions not asked, will definitely assist if asked and may volunteer.

- B Partial cooperation, will volunteer some information, will answer any question asked, may assist if asked.
- C Little cooperation, will give simple answers and volunteer nothing, will not assist, can be insulted into action.
- D No cooperation, will give neutral answers to questions, giving little or no information, provokable.
- E Mild distrust, may give false answers to questions, will not hinder but may pass on information to hostiles.
- F Distrust, will give false answers to questions if pressed, May lead into trap or openly hinder group.
- G Open dislike, will not give any answers, may attack, will attempt to hinder or even kill if possible.
- H Hostile, no time to ask questions, will attack immediately, if hopelessly outnumbered or out gunned, will try to lead into trap.



GAME MASTER'S SHEILD and REFERENCE TABLES



CONTENTS

1- 11x24 inch REFERENCE SHEILD 3- 8¹/₂x11 inch PAGES OF TABLES ALL MATERIALS ARE DESIGNED TO AID THE GAME MASTER IN RUNNING THEIR CAMPAIGN.

STOCK # GA-1

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GRENADE EFFECTS (CONT.) GAS EFFECTS

CN-DM Gas, -10 points Accuracy, -6 points Strength, -6 points Dext., effects last for up to 1 hour (1DS) Game Turns) after exposure.

CS Gas. -5 points Accuracy. -2 points Strength. -4 points Dexterity. effects last for 15 minutes (12 Game Turns).

BZ Gas, Accuracy = 0, -10 points Strength, -15 points Dexterity, effects last for 6 hours.

GRENADE OPTIONS

1. Anyone with a Dexterity of 4 or less has a 10% chance of dropping a grenade when they try to throw it. They may, of course, immediately try to pick up the grenade and throw it, but they are unable to aim properly at the target. Holl & the characters Accuracy.

2. A saving throw for a Morrow Project grenade or a fresh grenade needs a 00 on 1D100. If the 00 is made the grenade duds and fails to function. Very old or crudly made grenades have a 50% chance of failing to function.

USE OF EXPLOSIVES

The most common explosive in the Morrow Project is Composition 4, better known as plastic explosive or C-4. Almost all explosives need an explosion to set them off. This is most often done with a blasting cap or primercord. Black Powder or Primercord may be set off with a flame from a fuse. Primercord may also be set off by impact from bullets. C-4 cannot be set off (detonated) by fire, impact or electricity. The explosive amount sizes in the following table will block the

The explosive amount given in the following table will blast a man-sized hole (1.5m square) through the thickness of material listed.

BREACHING CHARGES

THICKNESS OF	C-4 NEEDED	FOR CONCRETE	C-4 NIKIDI	ED POR	NOCK
MATERIAL	WT.	M112 BLOCKS	WT.	M112	BLOCKS
.5m or less	3.5kg	6	1.75kg		3
. 6m	4.8kg	8	2.4kg		4
. 8m	9.2kg	17	4.6kg		9
. 9m	13.2kg	24	6.6kg		12
1.1m	21kg	38	10.5kg		19
1.2m	31.5kg	56 '	15.75kg		28
1.4m	44.7kg	80	22.35kg		40
1.5m	48.1kg	86	24.05kg		43

A single block (M112) of C-4 will blast a man-sized hole through a normal wooden wall (less than 12cm thick).

To calculate the weight needed of some other explosive besides C-4 the following table is used.

RELATIVE EFFECTIVENESS (RE)

EXPLOSIVE	RE	EXPLOSIVE	RE
PETN (Primercorn)	1.24	Picric Acid	0.70
Nitroglycerine	1.12	Guncotton	0.69
C-4 or C-3	1.00	Dynamite (60%)	0.62
Tetryl	0.93	Mitrostarch	0.60
Amatol	0.87	Dynamite (40%)	0.49
RDX	0.85	Black Powder	0.41
THT	0.75	Asmonium Mitrate	0.31

To use the table, find the BE of the explosive you want to use and divide the weight of C-4 needed by this number. This gives you the weight of explosive you would need to do the job. E-FACTOR

The E-factor accounts for a projectiles ability to penetrate armor and inflict damage. The E-factor is calculated by multiplying the projectiles diameter (in thosandths of an inch) times the speed it travels at launch (in feet per second). The result is divided by 50 and rounded off to the nearest whole number. This number is the E-factor. The formula is as follows;

50 = E	Where-	Dia Projectile diameter	
		V = Velocity at launch (muzzle ve	1)
		E = E-factor	

The amount of damage caused by a projectile is found by subtracting the armor class of the target from the Z-factor of the projectile. Any remaining E-factor points are the Damage points (Dp) takes by the target. If their are no E-factor points left, there was no penetration of the targets armor and hence no damage. Note: The E-factor formula is not used for weapons which penetrate armor through the use of explosives or other energy. The E-factor for these weapons is found by finding the amount of material the weapon will penetrate and taking the armor class of this amount of material as the E-factor of the weapon.

E-FACTORS, MISCELLANEOUS CARTRIDGES

CARTRIDGE	E-FACTOR
.25 Automatic	4
.30 Luger	8
.32 Long Colt	5
.44-40 Winchester (pistol)	9
.22 Long Rifle	6
.22 Hornet	. 12
.250 Savage	16
.270 Winchester	18
7mm Remington Magnum	19
30-30 Winchester	15
30-40 Krag	15
300 Savage	15
300 Winchester Magnum	19
.375 Holland & Holland	20
.444 Marlin	20
.458 Winchester Magnum	20
.460 Weatherby Magnum	25
.600 Nitro Express	23

ARMOR	CLASS					
ARMOR	MOD.	CM. OF	CH. OF	CM. OF	CM. OF	
		STEEL		CONCRETE		MATERIAL
A	0	-	-	-	-	Skin (human)
B	1			5 *	-	Cloth (heavy)
C	3	1		.03		Leather
1 2	6	-	2.54 5.08	.03		13mm light plastic
3		.25	7.62	.76	- 2	13mm heavy plastic Chain mail (normal)
4	13 14	.34	10.16	1.02	7.62	3mm armor plate
	15	.42	12.7	1.27	8.89	same at most prace
6	16	.5	15.24	1.52	-	Mylon body armor
7	17	. 57	17.78	1.79	-	Resistweve cloth
8	18	.84	20.32	-	-	6mm fiberglass plate
9 10	19	.7	22.86			6mm aluminium plate
14	20 24	.76	25.4	3.18	16.51	Falmer error week
15	25	1.02	34.29	7.62	22.86	Kelvar armor vest
16	26	-	all shares and			19mm Lexan plastic
18	28	-	-	-	-	Fiberglass/Titanium
						plate (4mm)
19	29	-	-	-		13mm aluminium
20	30	1.27	45.72	10.16	30.48	
21	31				-	3mm boron carbide plate
25	35	1.52	55.88	15.24	36.83	
30 35	40	1.79	86.04 78.74	19.05 22.86	43.18 49.53	Anna Barriss such t da t
30	40	2.03	78.74	22.80	49.03	3mm Boron carbide/ Carbon filament plate
40	50	-	88.9	29.21	55.88	caroon mament plate
42		2.29	-	-	-	
45	55	-	99.06	34.29	60.96	
48	58	2.54	-	-	-	1. A
50	60	-	109.22		66.04	
55	65	-	121.92		71.12	
60	70	-	129.54	50.8	76.2	
65 82	75 92	3.18	-	12	15	
90	100	4.06	190.5	91.44	106.68	
100	110	4.45	-	-	100.00	
120	130	5.08	-	-	-	
160	170	6.35	-	-	-	
200	210	7.62	-		-	
250	-	8.89	-	-	-	
300	-	10.16	2	-	-	
350 400	2	11.43 12.7	-	-	100	Barr sweet MAG south
450	-	13.97	12	-	-	Bow armor M60 tank
500	-	15.24	Q	2	-	
560	-	16.51	-	-	24	
620	-	17.78	=	-	-	HAAM suit armor class
680	-	19.05	-		-	
740	-	20.32	-	-	-	
800	2	21.59 22.86	1	-	-	
000		24.13	3		-	
1000	1	25.4	2		2	
1010	2	27.94	-	-	-	
1025	2	30.48	-	-	-	
1040		33.02	-		-	
1055	-	35.56	-	-	-	
1070	5	38.1	-	-	1	
1080	1	40.64 43.18	-	-	-	
1125		45.72	1	120	1	
1130	2	48.26	-	-	-	
1150		50.8	-	-	-	
1160		53.34		-	-	
1175	3 0	55.88	-	-	-	
1190	-	58.42	*	-	-	Penetration of TOW

	and the second			_							
I	WEAPONS DATA			0							
I	PISTOLS	CAL.	E FAC.	-	EFF. RMG.	MAX. RNG.	RATE OF FIRE	FEED DEVICE	DEV. WT.	ADDITIONAL COMMENTS	
1	Browning MP-25* SaW M27-34* SaW M29-64* Colt Peacemaker Colt M1911A1 P-08 Luger P-38 Walther M1951 Boretta Colt Police .38	9x19mm .357 Mag. .44 Mag. .45 Colt .45 ACP 9x19mm 9x19mm .38 Spec.	9 10 13 8 9 9 9 9 7	.88kg 1.238kg 1.35kg 1.02kg 1.13kg .89kg .772kg .87kg 1.02kg	45m 75m 150m 50m 50m 50m 50m 50m	2012m 2150m 2290m 2012m 2012m 2012m	40 rpm 24 rpm 24 rpm 35 rpm 32 rpm 32 rpm 32 rpm 32 rpm 24 rpm	13rd mag. 6rd cyl. 6rd cyl. 6rd cyl. 7rd mag. 8rd mag. 8rd mag. 8rd mag. 6rd cyl.	.2kg n/a n/a .23kg .196kg .196kg .06kg		
	M1896 Mauser .44 Automag Gyrojet Mk II .44 New Model Army .54 Flintlock	7.62x25mm .44 A MAG 12mm .44BP .54BP		1.22kg 1.5kg .420kg 1.02kg 1.25kg	50m 200m 75m 30m 10m	2000m	30 rpm 35 rpm 21 rpm 12 rpm 6 rpm	10rd clip 7rd mag. 7rd clip 6rd cyl. 1 shot	n/a n/a n/a	Fires underwater (‡ Rng.). Percussion, black powder revolver. Black powder flatlock.	
I	SUBMACHINEGUNS										
	Ingram M10* UZI* American 180 Thompson M1928A1 Schnesser MP40 M3A1 Greasegun Bushmaater Sterling L2A3 STEM Mk II Walther MP-K Stechkin Mauser Schnellfeuer SAW W76 V2-61 Skorpion	9x19mm 9x19mm 221R 45 ACP 9x19mm 45 ACP 5.56x45mm 9x19mm 9x19mm 7x19mm 7.62x25mm 9x17mm 7.63x17mm	9999999	2.84kg 3.6kg 3.9kg 4.9kg 4.03kg 2.38kg 2.72kg 2.8kg 2.8kg 1.03kg 1.2kg 3.28kg 1.59kg	100m 200m 150m 200m 200m 200m 200m 200m 200m 50m 50m 50m 50m	2012m 2012m 1600m 2012m 2012m 2012m 2012m 2012m 2012m	40/96 rpm 64/128 rpm 354/708 rpm 100/200 rpm 120 rpm 60/120 rpm 40/102 rpm 40/102 rpm 40/96 rpm 40/80 rpm 40/80 rpm 72/144 rpm 40/80 rpm	32rd mag. 32rd mag. 177rd drum 32rd mag. 30rd mag. 30rd mag. 34rd mag. 32rd mag. 20rd mag. 20rd mag. 20rd mag. 36rd mag.	.62kg .62kg .6kg 2.23kg .67kg .67kg .45kg .64kg .64kg .20kg 1.66kg .60kg	Issued with silencer Issued with Laser-Loc sight for siming. Uses MIGAI rifle magazine. Uses Ingram MIO magazine. May be fitted with shoulder stock. May be fitted with shoulder stock.	
I	RIFLES	7,03X17888		1. Jakg	DOM		40/80 rpm	20rd mag.	.41kg	Issued with silencer.	
	Stoner M23* Stoner M22* M21 (M14)* M16A1* FN-FAL Galil AE-47 EAR-98 M1 Garand M1 Carbine	5.56x45mm 5.56x45mm 5.56x45mm 5.56x45mm 5.56x45mm 7.62x51mm 7.62x51mm 7.62x57mm 7.62x63mm 7.62x63mm 7.62x63mm	15 17 15 15 15 19 18	3.7kg 3.7kg 5.3kg 3.18kg 4.25kg 3.9kg 4.3kg 3.69kg 4.3kg 2.286kg	300m 400m 1000m 600m 600m 300m 600m 800m 300m	2600m 2653m 3725m 2653m 3725m 2653m 2200m 3155m 2200m	40/94 rpm 40/94 rpm 40 rpm 45/150 rpm 60/120 rpm 40/105 rpm 15 rpm 30 rpm 40 rpm	30rd mag. 30rd mag. 20rd mag. 30rd mag. 30rd mag. 35rd mag. 30rd mag. 5rd clip 8rd clip 15rd mag.	.455kg .455kg .65kg .455kg .73kg .71kg .827kg n/a 1.25kg	Issued with scope and silencer. Built-in wirecutter and bottle opener.	
I	.45 Springfield .50 Hawkins .69 Musket	.45-70 .50BP .69BP	12 11 8	4.5kg 4.07kg 5.03kg	400m 70m 50m	3200m 1200m 200m	25 rpm 10 rpm 12 rpm	1 shot 1 shot 1 shot	n/a n/a n/a	"Trapdoor" rifle model. Black powder percussion rifle. Black powder smoothbore flintlock.	
1	MACHINEGUNS				700-	2080-					
1	Stoner Mk 23* Stoner M207* M60* MAG-58* M85C* M2H8* Rh 202* MG-42 Browning M1919A4 BAR M1918A2	5.56x45mm 5.56x45mm 7.62x51mm 7.62x51mm 12.7x99mm 12.7x99mm 7.92x57mm 7.62x63mm 7.62x63mm	15 17 17 30 30 57 16 18 18	4.5kg 5.4kg 10.51kg 10.85kg 30.6kg 38.1kg 81.5kg 11.6kg 14.06kg 8.82mm	700m 800m 1200m 1200m 1300m 1300m 2000m 800m 1000m 600m	2650m 2650m 3100m 3100m 6660m 6660m 6660m 7000m 3155m 3155m	150 rpm 150 rpm 200 rpm 250 rpm 70/150 rpm 70/150 rpm 70/100 rpm 120 rpm 120 rpm	150rd belt 150rd belt 100rd belt 105rd belt 105rd belt 105rd belt 50rd belt 250rd belt 250rd belt	1.95kg 1.95kg 2.94kg 2.94kg 13.05kg 13.05kg 41.7kg	Tripod wt. 6.35kg (M122). Pits on M122 tripod. Tripod wt. 19.35kg. Tripod wt. 19.35kg. Mounted in vehicles. Fits on M122 tripod.	
1	BREN ME II MISCELLANEOUS	.303 MBk 7	16	10.52kg	600m	3000m	40/120 rpm	30rd mag.	1.25kg		
	MIOA* Atchisson* M79* M203* M174E3* HK69A1* HK7LA-35L M9A1-7* M29A1 Mortar* Resington 870P	12 Ga. 12 Ga. 40mm 40mm 40mm 35mm n/a 81mm 12 Ga.	8 8 ** ** ** n/a ** 8	3.6kg 5.2kg 2.72kg 1.36kg 7.25kg 1.8kg .625kg 11.8kg 40.48kg 3.2kg	90m 90m 350m 350m 350m 350m 70m 55m 4595m 90m	510m 510m 400m 400m 400m 50m 55m 4595m 510m	25 rpm 45/90 rpm 15 rpm 15 rpm 40/90 rpm 15 rpm 7/a 5 rpm 6 rpm 24 rpm	5rd mag 20rd drum 1 shot 12rd mag. 1 shot 1 shot 4 gal tank 1 shot 6rd mag.	n/a 1.8kg n/a 4.5kg n/a 10.9kg n/a 10.9kg n/a	Has flashlight built-in for siming. Used when mounted on M16A1 rifle only. Fires HE & HEDP, mounts on M122 tripod. Fits in holster, has folding stock. Disposable, burns at 1300°C for 120 sec. I shot burns at 1300°C for 120 sec. Crew-served, smooth bore cannon. Pump-action riot shotgun.	
I	ROCKETS	WT. 1	E FAC. M	IN. RNG.	EFF. RNG.	MAX. RNG.	BURST RADIUS	ADDITIONAL			
	M72A2 LAW* ARABRUST 300* M202A1* M47 Dragon* TOW* Stinger* 3.5in. M20 Bazooka BPG-7v	6.3kg 5.175kg 14.6kg 78.5kg 13.4kg 5.89kg	1010 1025 n/a 1190 1190 n/a 1010 1030	50m 30m 20m 65m 300m 5m 300m	350m 300m 750m 3000m 3750m 4800m 300m 300m	1000m 1000m 750m 3000m 3750m 4800m 920m 920m	5m 5m 15m 10m 10m 20m 10m 5m	4rd clip (w Wire-guided Wire-guided	flashless t. 6.75kg) missile. missile.	last. , noiesless, .8m backblast. , burns at 1000°C. for 40 seconds. ng anti-aircraft minsile.	
I	GRENADES	WT.	EFF. RNG	FUSE D	ELAY BURS	T RADIUS	EFFECTS				
	M28A1 Frag* M34FP* M6, CN-DM* AN-M8, HC* M7A2, CS* M7A2, CS* M7A2, CS* AN-M14, TH3* Mk3A2, HS* Mk1, Illum.* Mk1, Illum.*	.448kg .756kg .476kg .672kg .434kg .434kg .896kg .896kg .437kg .28kg .596kg	4 Om 3 Om 3 5 m 3 Om 4 Om 2 5 m 4 Om 4 Om 3 Om	2 8 2 8 4 8	ec. ec. ec. ec. ec. ec. ec. ec.	15m 35m n/a n/a n/a 2m 2m n/a 10m	Tear/Vomit gr Smoke grenade Tear gas, bur Hallucinogen burns at 2200 .226kg of TWT	0 C. for 60 t as, burns for b, burns for 5 rns for 60 sec Le gas, burns 0 C. for 40 sec f. a 200m area fo	60 second 120 second conds. for 60 se sconds. W1	s. conds. 11 burn through 1 cm armor steel.	
	AMMUNITION (LARGE)	WT. M	IN. RNG.	EFF. RNG	. MAX. RNG	. E FAC.	BURST RADIUS	EFFECTS			
	40mm M381, HE* 40mm M433, HEDP* 40mm M51, CS* 40mm M576E2, Buckshot* 40mm M576E2, Buckshot* 40mm Star Cluster* 40mm Star Cluster* 40mm Star District 81mm M374A2, HE* 81mm M375A4, WP* 81mm M301A3, Illum.*	.226kg .226kg .308kg .226kg .226kg .226kg .226kg 4.23kg 4.23kg 4.89kg	30m 30m 30m 0m n/a 0m 72m 72m 72m 500	350m 350m 200m 35m 200m 50m 4595m 4737m 3150m	400m 400m 50m 200m 200m 4595m 4737m 3150m	n/a 120 2 4 n/a n/a n/a 85 n/a n/a	5m 5m n/s n/s n/s n/s 34m 20m b/s	Tear gas, 1 Fires 20 00 Illuminates Fires 5 gre Fires a 150 Fragmentati Burns at 23 Illuminates	ion e-facto burns for 3 D buckshot s a 400m c. een (M863) cm "beanbag ion E-facto 700° C. for s a 1200m d	or = 4, will penetrate 5cm of steel. 30 seconds filling a 2.5x4.5x2m room. E-factor = 4. ircle for 40 seconds. , red (M054), or white (M585) "stars". g" which stuns inflicting 1D6 damage. or = 6. r 120 seconds. circle for 75 seconds.	
	3.5 in. M28A2, HEAT 3.5 in. M30, WP	4.08kg 4.06kg	5m 5m	275m 275m	945m 945m	1010 n/a	10m 20m	Burns at 27	700 C. for	ctor = 4 for fragments. r 120 seconda.	

* Norrow Project Issue ** Dependent on Association

MEDICAL TABLES

BLOOD TIPES

DIE RO	ALL LID	20)	BL	DOD TYP	ε			
1-	. 15			0				
	-16			A				
	7-19			B				
20)			AB				
100	and the second			FACTOR				
	-17			(Positi				
10	5-20		-	(Negatio	(e)			
BLOOD	TRANSF	USIONS						
DONOR				REC	IPIENT			
	0+	0-	A+	A-	B+	B	AB+	AB-
0+		+		+ *	+	+.		+*

A+	-	-			-	-	+	
A-		-			-	-		*
B+	-	-	-	14		+*	+	+*
B-			-					+
AB+	-	-	-	-	-	-	+	+=
AB-		-	-	-	-	-	+	

Transfusion possible
 Transfusion impossible
 Transfusion possible
 Transfusion possible but may be given only once.

HEALING

Given total rest the body's structure points are replaced at a rate of 1 point per day (game time). Blood points are replaced at a rate of 2 points per day. If a joint was damaged it has a 75% chance of healing normally. If the joint was destroyed (Dp was more that the joints Sp) or does not heal normally the character loses 2 Dexterity points per joint destroyed.

MULTIPLE HITS DAMAGE

The amount of damage received f-om a multiple hit is equal to the E-factor of the weapon (m-nus the targets armor class) times the sumber of hits. When determining the blood loss or death percentages, treat the multiple wounds as one and use the total Dp. The death percentage is taken from the Torso, Area 3, except when the head is involved in which acme the head's death percentage is used.

WHOLE BODY DAMAGE

Sp RANGE		C	HANCE	OF D	BATH	OR UN	COMSC	IOUSH	155	
	10%	20%	30%	40%	50%	60%	70%	80%	90%	995
100-150	50	55	60	65	70	75	80	85	90	95+
151-200	75	83	91	99	107	115	123	131	139	147+
201-250	100	110	120	130	140	150	160	170	180	190+
251-300	137	149	161	173	185	197	209	221	233	245+
301-350	150	165	180	195	210	225	240	255	270	285+
351-400	175	192	209	226	243	260	277	294	311	328+
401-450	200	220	240	260	280	300	320	340	360	380+
451-500	225	247	269	291	313	335	357	379	401	423+
				D	pw RI	QUIRE	D			

ELECTRIC SHOCK DAMAGE

VOLTS	Dpw	VOLTS	Dpw
50	50	440	268
75	78	800	346
110	106	1,000	425
150	134	2,000	600
200	162	5,000	800
000	1.00		

BURN DAMAGE

		P.	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
	100	0	0	1	1	1	1	2	4	6	8	10	20	40	80	160	320
	200	0	1	1	1	1	2	4	6	8	10	20	40	80	160	320	500+
T	400	1	1	1	1	2	4	6	8	10	20	40	80	160	320	500+	+
E	600	1	1	1	2	4	6	8	14	20	40	80	160	320	500+	17.7	
H	800	1	1	2	4	6	8	14	20	40	80	160	320	5004			
P	1000	1	2	4	6	8	14	20	40	80	160	320	5004				
Ë	1200	2	4	6	8	14	20	40	80	160	320	5004					
R	1400	4	6	8	14	20	40	80	160	320	5004	Store.					
A	1600	6	8	14	20	40	80	160	320	500+							
T	1800	8	14	20	40	80	160	320	500+								
U	2000	14	20	40	80	160	320	500+	· · · · ·								
R	2200	20	40	80	160	320	5004	R. Carlo									
E	2400	40	80	160	320	500-											
	2600	80	160	320	500+												
C	2800				0+												
	3000	32	0 50	0+													
	3200	50	0+														

* Flash, momentary exposure while moving of less than one second.

BURN SEVERITY

1st DEGREE 8-14 Dp 2nd DEGREE 21-40 Dp 3rd DEGREE 80 Dp or more

BURN RESULTS

	loss of Strength or Dexterity, normal healing. ss of 1 point Strength, 2 points Dexterity, normal	
3rd DEGREE Lo	aling. sm of 4 points Strength, 8 points Dexterity for ever) Dp above 80, ½ normal besling rate.	3

DEATH PERCENTAGE (OPTIONAL)

lst	DEGREE	0%									
2nd	DEGREE	10%									
3rd	DEGREE	20%	(add	105	for	each	additional	20	Dp	above	80)

POISONS

POISON VIRULENCE TYPES

TYPE POISON

- 8
- POISON Most poisonous insects, lesser poisonous spiders and snakes such as tarastulas, copperheads, etc. Poisonous snakes and spiders such as rattlesnakes, coral snakes, moccanise, black widow and brows reclume spiders, banans spiders, and most plast poisons. Giant mankes and spiders, miseral poisons such as cyanide, arsenic, strychnise, mercury, etc. Nerve agents, mutast poisonous naimals. C
- D

POISON DEATH PERCENTAGES

		VIRULEN	CE TYPES	
ONSTITUTION	A	B	C	D
0-1	35%	45%	70%	995
2-3	30%	40%	70%	95%
4	307	40%	65%	90%
5	25%	35%	60%	90%
6	257	35%	60%	80%
7-8	25%	35%	55%	80%
9-11	20%	30%	50%	75%
12	20%	30%	45%	705
13	15%	25%	455	70%
14-15	15%	25%	40%	63%
16-17	10%	205	30%	55%
18	5%	15%	30%	55%
19	5%	155	30%	55%
20	15	15%	30%	50%

COMBAT TABLES

HAND-TO-HAND (UNABNED) COMBAT

The strikes (blows or kicks) an individual may attempt during a Combat Turn is equal to their movement allowance.

HAND-TO-HAND DAMAGE

Hand,	elbow, and knee strike	Dp	-	tSt.
Kick,	edge of hand strike (requires training)	Dp	-	1St.
Claws	and teeth (bite)	Dp	*	18t.

If as face-to-face confrontation, the character with the highest Dexterity strikes first. If both characters have equal Dexterity roll ID6 for both and the one with the highest roll strikes first. In the case of an ambush, the initial blow takes effect. After the first blows have been determined, combat resumes as sormal with the highest Dexterity striking first (if he is able). The characters Accuracy is used to determine the success or failure of a strike or block. Boll 1D20, if the sumber rolled was LESS than the characters Accuracy their attempt was successful, if the number rolled is EQUAL to or MOMER than the characters Accuracy, their attempt failed. If a character throws a strike that a subsequent block stops there is no damage takes. The Dp of a blow is found by subtracting the armor class of the character struck (Modified Armor Class) from the Dp of the blow. The medical tables are used to find the point of impact of the characters strike if the player did not earlier state an aiming point.

HEAD STRIKE DEATH AND UNCONSCIOUSNESS PERCENTAGES

S CHANCE OF DEATH	S CHANCE OF UNCONSCIOUSNESS
30%	30%
30%	40%
40%	50%
50%	60%
60%	70%
70%	80%
80%	90%
90%	995
99%	995
	OF DEATE 305 305 505 605 705 805 905

Unconsciousness lasts for 1D20 + 20 turns, misus one turn for each point of Constitution the character has. A successful strike on the groin, throat, or head gives the initiative to the other player for the next turn. Note; The use of teeth and claws as well as blows can be used for both human and non-human combat.

BLUNT WEAPONS COMBAT

The damage resulting from blunt weapons is based on $\frac{1}{2}$ of the characters Strength added to the factor of the weapon used. Striking is determined the same as for han-to-hand combat with the following addition. If the weapons factor of the attacking weapon is greater than the weapons factor of the blocking weapon, a block is not totally complete but only $\frac{1}{2}$ of the attacking Dp are received.

FADON FACTORS BLINT WE

anni on The	IONO, DODAL REALOND
FACTOR	WEAPON
0	Stick Light (.5 kilo or less) thrown object
+2	Small rock Blackjack Brass Kauckles Pistol (empty) Bottle
+4	Club Baseball bat Rifle butt Quarterstaff Neavy (.6 kilo or more) thrown object
+5	Pipe (metal, .75m or longer) Large rock (1 kilo or beavier) Crowbar
+6	Sledgehammer Mace

The medical tables are used the same as for hand-to-hand combat

COMMAT TABLES (CONT.

EDGED WEAPONS

The damage takes from edged weapons is found by taking \$ of the characters Strength and adding the weapons factor of the weapon used. WEAPON FACTORS, EDGED WEAPONS

FACTOR VEAPON

FACTOR	
+1	(will not penetrate armor class C) Small throwing or regular knife (under 12cm blade) Butcher knife Brokes bottle Straight ramor
+2	Throwing or combat knife (larger than 12cm blade) Dagger Bayomet (KCB-70)
+4	Machete (regular) - Matchet Cleaver
+5	Machete (large) Saber Broadsword
+6	Ax Pickax Smort

Shovel (large)

EDGED PROJECTILE WEAPONS CHARACTERISTICS

WEAPON	HPP. BHG.	MAX. RMG.	E-FACTOR
Small throwing knife	5m	10m	2
Large throwing knife	15m	20m	3
Tomahawk	10m	20m	4
Ax	10	20m	6
Short Spear	20m	60a	10
Spear	30m	708	14
Short bow (15kg pull)	30m	400m	8
Long bow (25kg pull)	80m	600m	14
Compound bow (35kg pull)	80m	700m	16
Crossbow-wood (25kg pull)	40m	400m	14
Crossbow-steel (50kg pull)	100m	8008	18

Note; All arrows and quarrels are equivalent to ranor broadheads.

VERICULAR DAMAGE

ANTI-ARMOR WEAPONS CLASSES

CLASS WEAPON

A	Maverick
8	TOW, Dragon
C	2.75 in. Rocket
D	M72A3 LAW, ARMERUST 300, Simm HE, M19 AT mine, M183 Demo.
E	40mm HEDP, 20mm API
7	20mm HEI, H112 C-4, 12.7x99mm AP
G	40mm HE, H26A1 Frag.
FLANE	M202A1, M0A1-7, MAPLA-35L

VEHICLE PENETRATION PERCENTAGES

WEAPONS CLASS			VE	BICLE TY	PES		
	MARS Scientific	M60 Tank	Cosmando vehicles	N113A1 N114	Jeep	SK-5 Normal	Vehicle
A	60	95	99	- 99	90	99	
B	30	90	99	90	99	99	
С	10	90	99	99	99	50	
D	0	50	99	99		90	
I	0	5	80	90	99	29	
7	0	0	50	70	90	80	
G	0	0	. 1	40		00	
FLAME	a/a	50	n/a	90	95	95	

Note; In the case of flame weapons there is no actual penetratio except for open vehicles and those not sealed against flame. The number is the table indicates the possibility of flame damage to a vehicles crew.

In the situation where the vehicle was struck but no penetration occured use the following table to find the damage against the vehicle itself.

iove. longer move.

ay) damaged.

VENICLE DAMAGE Boll 1D8

DAMAGE
Tire/Track hit, vehicle can so longer
Weapon system hit, main weapon damaged
Engine/power train hit, vehicle can no
Antennas hit, no radio communication.
Body hit, vehicle sensor systems (if a
Steering damaged, vehicle moves at 1 s
No effect
No effect

Note 1: Any damage has a 50% chance of (roll 1D5). Note 2: The above table is not used for a MARS or Scientific vehicle if the weapon striking the vehicle is less than class A or B.

Use the following Table to find the crew casualties if the vehicles armor was penetrated.

DIE					CREW SI	ZE		
ROLL	1	2	3	4	5	6	7	8
1	۲	¥-		₩-	-¥-K	-¥-K ¥K	-¥-¥ ¥K¥	-¥
2	K	-1	K	-K-W	¥-¥K -	¥¥ K¥	¥-¥- -K-	-WY-
3	-	K-	¥-K	¥-K¥	NNNK -	KKK- KK	NWWW -KK	RAAK
4	*	-K	W-K	-WEK	-KKK -	-¥-¥ KK	K-EK WWK	-WEW WEEW
5	-	WK	WWK	WWWX	K KAK	WW-W KK	KWWK -VK	WEWE KEWE
6	۲	KW	***	AFEA	-	WW-K KK	KW-K KKW	KWKK -KKW
7	K	KK	WEK	RAKE	KKEW	KEEV EV	WEWE KEW	KWKW KKKK
8	ĸ	**	KKK	KKKK	KEKE K	KKKK KK	KKKK KKK	KKKK KKKK

K = Killed W = Nounded (1-6 Dp, 1D6, use medical tables ignoring death \Im) - Not effected

INDIBUCT FIRE

CREW CASUALTIES

Indirect fire is used when the gunner cannot see the target but knows its direction and distance from him. It is most commonly used with mortare, cannons, some missile launchers, and can be used with greende launchers. The gunner fires with his normal accuracy. However, if their is a "forward observer", someone who can see the target and call back corrections to the gunner, ADD 1 point to the gunners accuracy each time he misses, receives a correction, and reaims his weapon. The direction and range of misses are as follows:

DIBBCTION OF MISS Boll 106

1 Loft and past the target.			
2 On line and past the target.			
3 Right and past the target.	1	2	3
4 Left and on line with the target.			
5 Right and on line with the target.	4	T	5
6 Left and short of the target.			
7 Short and on line with the target.	6	7	
S Right and short of the target.			
8 Right and short of the target.			

DISTANCE OF MISS Boll 1020*

1-20m	6-70m	11-150m	16-275m
2-30m	7-80m	13-175m	17-300m
3-40m	8-90a	13-200m	18-350m
4-50m	9-100m	14-235m	19-4000
5-00m	10-1388	18-350m	20-500m

When firing 40mm grenade launchers roll 1DS and use the ranges from to 6 on the table.

USE OF GRENADES

To determine a hit use the standard firing tables. In the case of a miss use the following tables.

GRENADE HISS Noll 100

0.4 6

DIE BOLL REBULT

Left and past the target.				
On line and past the target.	1	2	3	
Right and past the target.				
Left and on line with the target.	4	T	5	
Right and on line with the target.				
Left and short of the target.		7		
Short and on line with the target.				
Right and short of the target.				

DISTANCE OF MISS Boll 3DS, the number rolled being the distance of miss in meters.

GRENADE EFFECTS

The fragmentation grennde (M26A1) will blast a gm hole in a normal wooden wall (interior). The number of fragments hitting a target is equal to the number rolled on 1D20.

The Dp is found by multiplying the number of fragments hitting the arget times the E-factor of the fragments minus the armor class of The Dp is found by multiplying the number of fragments hitting the target times the E-factor of the fragments minus the armor class of the target. Mote: WP fragments 4 Dp burn damage per fragment and burn for 1D4 Combat Turns. Gas and Smoke greandee make a cloud normally 18m long, 4m wide, and 2m high. A gas greandee effects last for 4 times the greandes burning time. (60 Combat Turns.) A smoke greandee cloud lasts twice the greandes burning time. (80 Combat Turns) A white Phosphorus greandee smoke lasts the greandee burning time. (15 Combat Turns)