TWILIGHT:2000TM 2nd Edition **TVILIGHT:2000TM 2nd Edition TVILIGHT:2000TM 2nd Edition TVILIGHT:2000TM 2nd Edition TVILIGHT:2000TM 2nd Edition TVILIGHT:2000TM 2nd Edition**

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HUMAN/ANIMAL HIT LOCATION

| Die | Biped | Quadruped |
|-----|------------------|-------------|
| 1 | Head | Head |
| 2 | Right Arm | Forequarter |
| 3 | Left Arm | Forequarter |
| 4 | Chest | Forequarter |
| 5 | Abdomen | Chest |
| 6 | Abdomen | Chest |
| 7 | Right Leg | Abdomen |
| 8 | Right Leg | Hindquarter |
| 9 | Left Leg | Hindquarter |
| 10 | Left Leg | Hindquarter |

Biped: Table assumes front/rear shot. Side Shot: Far side hit=near side hit.

Prone Biped: Table assumes top shot. Side Shot: As above.

Front Shot: Leg or abdomen hit=miss. Rear Shot: Head, arm, or chest shot=miss.

Quadruped: Table assumes side shot. Front Shot: Hindquarters or abdomen hit=miss.

Rear Shot: Head or forequarters hit=miss.

BODY ARMOR PROTECTION

| Туре | AV | Head | Chest/Abd |
|---------------|----|------|-----------|
| Flak Jacket | 1 | No | Yes |
| Kevlar Vest | 1 | No | Yes |
| Steel Helmet | 1 | 1-3 | No |
| Kevlar Helmet | 1 | 1-4 | No |

SCATTER DIAGRAM



MELEE WEAPONS CHART

| Weapon | Range | Hit Mod. | Damage |
|----------------------|-------|----------|------------------|
| Bottle | S | | 1D6÷2 |
| Knife* | S | +2 | 1D6 |
| Hatchet | S | | 1D6+(Strength÷2) |
| Club | S | -1 | 1D6+(Strength÷2) |
| Bayonet [†] | L | +1 | 1D6+(Strength÷2) |
| Spear | L | | 1D6+(Strength÷2) |
| Axe | L | -2 | 1D6+(Strength) |
| Machete | L | +1 | 1D6+(Strength÷2) |

*Including bayonet, when not on rifle. † When on rifle.

| COM | BAT | Research Contraction |
|--------------------|----------------------|--|
| | NT CHART | |
| | VI CHARI | TOTAL SPACE OF COMPACT AND DESCRIPTION OF COMPACTA AND DESCRIPTION OF COMPACTA AND DESCRIPTION OF COMPACT AND DESCRIPTION OF COMPACTA AND DESCRIPTICO |
| Туре | Move | |
| Animals | Walk/Trot/Run | |
| Bear | 10/20/40 | SAMPLE BURST |
| Bison | 10/15/— | DIAGRAMS |
| Boar | \$5/10/30 | |
| Camel | 10/20/40 | (Eight-Meter Grid) |
| Dog, other canines | 15/30/60 | |
| Elephant | 10/15/30 | Primary |
| Horse | 10/20/60 | Secondary |
| Large cat | 10/30/60 | Occontairy |
| Mule | 10/20/ | a state of the second second |
| Ox | 10/15/— | |
| Rhino | 10/15/25 | |
| Tiger | 10/20/40 | |
| Wild cattle | 10/15/ | Four-Meter |
| | | |
| Humans | Crawl/Walk/Trot/Run | Burst |
| Human | 2/8/15/30 | |
| - Hurricerr | | |
| | STATISTICS SHOULD BE | |
| | | |
| 20-Meter | | |
| Burst | | |
| | | |
| | | 12-Meter |
| | | Burst |
| | | Duist |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | Directional Mi | ne |
| | | |
| | Burst Templat | es |

HAND GRENADES

| Туре | Damage | Pen |
|------------|-----------|-----|
| Frag | C:3, B:12 | Nil |
| Antitank | C:3, B:4 | 18C |
| Concussion | C:5 | Nil |
| Thermite | C:1, B:4 | Nil |
| Chemical | C:1, B:12 | Nil |
| WP | C:1, B:12 | Nil |

RIFLE GRENADES

| Туре | Rng | IFR | Damage | Pen |
|----------|-----|------|-----------|-----|
| RAW HE | 100 | 2000 | C:10,B:28 | 1C |
| RAW HEAT | 100 | 2000 | C:8, B:20 | 75C |
| HEAT | 15 | 200 | C:7, B:12 | 30C |
| WP | 25 | 200 | C:1, B:12 | Nil |

MORTARS

| Туре | Round | Damage | Pen |
|-----------|-------|------------|----------|
| 60mm | HE | C:5, B:20 | Nil |
| IFR:4km | WP | C:2, B:12 | Nil |
| | ILLUM | B:400 | Nil |
| 81mm | HE | C:8, B:28 | -4C |
| IFR:4.5km | WP | C:2, B:20 | Nil |
| | ILLUM | B:1000 | Nil |
| 4.2" | HE | C:12, B:36 | -2C |
| IFR:6km | WP | C:3, B:36 | Nil |
| | ILLUM | B:1500 | Nil |
| | ICMDP | B:36 | Grenade* |
| | CHEM | C:3, B:12 | Nil |
| 120mm | HE | C:16, B:44 | 0C |
| IFR:6km | WP | C:3, B:36 | Nil |
| | ILLUM | B:1500 | Nil |
| | CHEM | C:3, B:12 | Nil |
| | | | |

*See ICM, Twilight: 2000, p. 201.

FASCAM Mine Density Table

| Туре | Density | Area in Meters |
|------|---------|------------------|
| RAAM | .01 | 240 (30 squares) |
| ADAM | .04 | 240 (30 squares) |

Density is in mines per eight-meter grid square.

BURN DAMAGE

| Source | Damage |
|------------|--------|
| WP | 2D6 |
| Thermite | 2D6 |
| Fuel | 1D6 |
| Structure/ | 1D6 |
| grass fire | |

All damage dice are *per second* except for structure/grass fire, which is *per phase*.

TURRETED VEHICLE DAMAGE

| | Turret Minor | | | Hull Minor |
|-------------|---|---|-------------|---|
| Die | Result | | Die | Result |
| 1 | 1 Crewmember | | 1 | 1 Crewmember |
| 2 | 1 Crewmember | | 2 | Loader* |
| 3 | Sight/Vision | | 3 | 2 Passengers** |
| 4 | Traverse | | 4 | 2 Passengers** |
| 5 | Secondary | | 5 | Radio |
| 6 | Major Turret | | 6 | Major Hull |
| Die | Major | | | Major |
| 2.0 | Result | | Die | Result |
| 1 | 2 Crewmembers | - | Die 1 | Result Engine |
| | A CONTRACTOR OF | 1 | | and the second |
| 1 | 2 Crewmembers | | 1 | Engine |
| 1 2 | 2 Crewmembers 2 Crewmembers | | 1 2 | Engine Engine |
| 1 2 3 | 2 Crewmembers 2 Crewmembers Main Armament | | 1 2 3 | Engine Engine Fuel |

*Loader is either a hit on the auto-loader mechanism or the actual crewmember loading the gun. This becomes a driver hit if neither are present.

**2 Passengers becomes a 1 Crewmember hit if this is not a passenger-carrying vehicle. If it is a passenger-carrying vehicle but there are no passengers present, the hit has no effect. Cargo destroyed may be substituted for this result at the referee's discretion.

CREW-IN-HULL VEHICLE DAMAGE

| | Turret | | | Hull |
|-----|---------------|----|-----|----------------|
| | Minor | | | Minor |
| Die | Result | | Die | Result |
| 1 | Loader | Ĩ. | 1 | 1 Crewmember |
| 2 | Sight/Vision | | 2 | Loader* |
| 3 | Sight/Vision | | 3 | 2 Passengers** |
| 4 | Traverse | | 4 | 2 Passengers** |
| 5 | Secondary | | 5 | Radio |
| 6 | Major Turret | | 6 | Major Hull |
| | | | | |
| | Major | | | Major |
| Die | Result | | Die | Result |
| 1 | Main Armament | | 1 | Engine |
| 2 | Main Armament | | 2 | Engine |
| 3 | Main Armament | | 3 | Fuel |
| 4 | Main Armament | | 4 | Fuel |
| 5 | Major Hull | | 5 | Ammo |
| 6 | Minor Hull | | 6 | Ammo |

*Loader is either a hit on the auto-loader mechanism or the actual crewmember loading the gun. This becomes a driver hit if neither are present.

**2 Passengers becomes a 1 Crewmember hit if this is not a passenger-carrying vehicle. If it is a passenger-carrying vehicle but there are no passengers present, the hit has no effect. Cargo destroyed may be substituted for this result at the referee's discretion.

FRAGMENTATION ATTACK TABLE

| Fragmentation Radius | Range | Mult. | 1 Hit | Miss | Dam | Pen |
|------------------------|-----------|-------|-------|------|-----|-----|
| Primary burst radius | 1 × Burst | 1-3 | 4-6 | 7-10 | 2 | 1 |
| Secondary burst radius | 2 × Burst | 1 | 2 | 3-10 | 1 | Nil |

VEHICLE HIT LOCATION CHART

| Die | Turretted | CIH | Standard | Flush Deck | Superstructure |
|-----|------------|------------|------------|------------|----------------|
| 1 | Turret | Turret | Hull | Hull | Superstructure |
| 2 | Turret | Hull | Hull | Hul | Superstructure |
| 3 | Hull | Hull | Hull | Hull | Hull |
| 4 | Hull | Hull | Hull | Hull | Hull |
| 5 | Hull | Hull | Hull | Hull | Hull |
| 6 | Suspension | Suspension | Suspension | Waterline | Waterline |
| 7 | Suspension | Suspension | Suspension | Waterline | Waterline |

+1 to die roll for side shots.

CIH = Crew In Hull (small turret)

Suspension Damage: Minor cuts speed in half, major immobilizes. Two minor damage results = major damage.

VEHICLE DAMAGE RESOLUTION CHART

| P-AV | Result |
|------------|------------------------|
| 0 or less | No effect |
| 1 to 10 | 1 minor damage result |
| 11 to 20 | 2 minor damage results |
| 21 to 40 | 1 major damage result |
| 41 to 60 | 2 major damage results |
| 61 or more | 3 major damage results |

P-AV: Penetration minus Armor Value.

STANDARD VEHICLE DAMAGE

| | Hull |
|--------|----------------|
| | Minor |
| Die | Result |
| 1 | 1 Crewmember |
| 2 3 | 1 Crewmember |
| 3 | 2 Passengers** |
| 4 5 | 2 Passengers** |
| 5 | Radio |
| 6 | Major Hull |
| | |
| | Major |
| Die | Result |
| 1 | Engine |
| 2 | Engine |
| 2 3 | Fuel |
| 4 5 | Fuel |
| 5 | Weapon/Ammo |
| C | Mannan /Amma |

6 Weapon /Ammo

*Loader is either a hit on the auto-loader mechanism or the actual crewmember loading the gun. This becomes a driver hit if neither are present.

**2 Passengers becomes a 1 Crewmember hit if this is not a passenger-carrying vehicle. If it is a passenger-carrying vehicle but there are no passengers present, the hit has no effect. Cargo destroyed may be substituted for this result at the referee's discretion.

SUPERSTRUCTURE VESSEL DAMAGE

| | Waterline Minor | | Hull Minor | | Superstructure Minor |
|-----|--------------------|-----|-----------------|-----|-------------------------|
| Die | Result | Die | Result | Die | |
| 1 | Waterline Hull | 1 | 1 Crewmember | 1 | 1 Crewmember |
| 2 | Waterline Hull | 2 | 1 Crewmember | 2 | Radio/Radar |
| 3 | Waterline Hull | 3 | Auxiliary Mach. | 3 | Sight/Vision |
| 4 | Waterline Hull | 14 | Auxiliary Mach. | 4 | Secondary |
| 5 | Cargo | 5 | Secondary | 5 | Secondary |
| 6 | Major Waterline | 6 | Major Hull | 6 | Major S'structure |
| | | | | | |
| | Major | | Major | | Major |
| Die | Result | Die | Result | Die | Result |
| 1 | 2 Crewmembers | 1 | Main Armament | 1 | 2 Crewmembers |
| 2 | Rudder/Screw | 2 | Main Armament | 2 | 2 Crewmembers |
| 3 | Engine | 3 | 2 Crewmembers | 3 | Fire |
| 4 | Fuel | 4 | 2 Crewmembers | 4 | Fire |
| 5 | Ammo | 5 | Ammo | 5 | Ammo |
| 6 | Minor Hull | 6 | Fire | 6 | Major Hull |

FLUSH-DECKED VESSEL DAMAGE

| | Waterline | | Hull |
|--------|--|-------------|---|
| | Minor | | Minor |
| Die | Result | Die | Result |
| 1 | Waterline Hull | 1 | 1 Crewmember |
| 2 | Waterline Hull | 2 | Auxiliary Machinery |
| 3 | Waterline Hull | 3 | Secondary Armament |
| 4 | 1 Crewmember | 4 | Radio/Radar |
| 5 | Cargo | 5 | Sight/Vision |
| 6 | Major Waterline | 6 | Major Hull |
| | | | |
| | Major | | Major |
| Die | | | |
| | Result | Die | Result |
| 1 | 2 Crewmember | Die 1 | Result Main Armament |
| 1 2 | | | |
| | 2 Crewmember | 1 | Main Armament |
| 2 | 2 Crewmember Rudder/Screw | 1 2 | Main Armament Main Armament |
| 2 3 | 2 Crewmember Rudder/Screw Engine | 1 2 3 | Main Armament Main Armament 2 Crewmembers |

Auxiliary machinery includes bilge pumps, power winches on the deck, generators, etc.

SKILL LIST

| | Associated | THE REAL PROPERTY AND A REAL PROPERTY A |
|---|------------|---|
| Skill | Attribute | Definition |
| Aircraft Mechanic | STR | Ability to repair and maintain aircraft. |
| Biology | EDU | Knowledge of plant and animal biology. |
| Chemistry | EDU | Knowledge of chemical interactions and compounds. |
| Civil Engineer | EDU | Ability to plan/supervise construction of buildings, roads, and bridges. |
| Combat Engineer | CON | Ability to perform tasks such as emplacing demolitions, building fortifications, and |
| oomout Engineer | | camouflaging emplacements. |
| Computer | EDU | Ability to operate and program a computer. |
| Disguise | CHR | Ability to alter appearance to avoid recognition. |
| Electronics | AGL | Ability to repair electronic devices. |
| Farming | INT | General knowledge of growing food crops and raising livestock. |
| Fishing | INT | Ability to catch fish, using hook and line or net. |
| Foraging | INT | Ability to find food in the wild, including knowledge of what plants are edible and |
| roraging | | where to find them, and the ability to set snares and traps. |
| Forgery | AGL | Ability to forge a signature or document and have it accepted as genuine. |
| Forward Observer | | Ability to communicate fire data for indirect fire weapons. |
| Geology | EDU | Knowledge of rock formations and minerals. |
| Gunsmith | AGL | Ability to construct and repair weapons. |
| Heavy Weapons | STR | Ability to use antitank missile launchers, flame weapons, rocket and grenade |
| ricavy weapons | om | launchers, large-caliber guns, and howitzers. |
| Horsemanship | CON | Ability to ride a horse. |
| Hunting Bow | STR | Ability to use a longbow |
| Instruction | CHR | Ability to teach skills. |
| Interrogation | CHR | Ability to persuade or force a prisoner to reveal information. |
| and the second se | CHR | Ability to speak and understand a given language. A specific language must be |
| Language | UNIT | chosen. |
| Loodorahin | CHR | |
| Leadership | AGL | Ability to inspire followers. |
| Lockpick | | Ability to pick a lock. |
| Machinist | AGL | Ability to use machine tools (such as lathes, punch presses, etc.) to fabricate other |
| March 199 | OTD | machinery. |
| Mechanic | STR | Ability to maintain and repair vehicles and machinery. |
| Medical | EDU | Ability to render first aid/medical care to injured or sick characters. |
| Melee Combat | STR | Ability to conduct hand-to-hand combat. Cascade skill (Armed, Unarmed). |
| Metallurgy | EDU | Knowledge of smelting ore into metal, forming alloys, and fundamental metal- |
| | 5011 | working. |
| Meteorology | EDU | Understanding of weather and the forces governing it. |
| Mining Engineer | EDU | Ability to supervise the construction and operation of a mine. |
| Motorcycle | CON | Ability to ride a motorcycle. |
| Mountaineering | CON | Ability to climb steep slopes and sheer cliffs. |
| Navigation | INT | Ability to determine correct position and direction of travel using maps, compass, |
| A CONTRACTOR OF A CONTRACT | | landmarks, the stars, etc. |
| Observation | INT | Ability to spot concealed enemies and avoid ambushes. |
| Parachute | CON | Ability to use a parachute. |
| Persuasion | CHR | Ability to phrase arguments in ways best calculated to gain acceptance. |
| Pilot | AGL | Ability to fly aircraft. Cascade skill (Fixed Wing, Rotary Wing). |
| Scrounging | INT | Ability to find man-made items such as spare parts, domestic food, ammunition, etc. |
| Scuba | CON | Ability to use an aqualung or rebreather. May not be purchased at a higher level |
| | | than the character's Swimming skill. |
| Small Arms | STR | Ability to use small arms (pistols, rifles, shotguns, etc.). Cascade skill (Pistol, Rifle). |
| Small Boat | AGL | Ability to operate small boats, including oar-driven, wind-driven, and small (under |
| | | 20 meters) motor boats. |
| Snow Skiing | AGL | Ability to travel using snow skis. |
| Stealth | AGL | Ability to move silently and without being spotted. |
| Swimming | CON | Ability to swim. |
| Thrown Weapon | STR | Ability to hit a target with a thrown weapon, such as a knife, rock, or grenade. |
| Tracked Vehicle | AGL | Ability to drive a tracked vehicle. |
| Tracking | INT | Ability to follow vehicles, humans, or animals by the traces they leave behind them. |
| Warhead | AGL | Ability to arm, disarm, and repair both conventional and nuclear warheads. |
| Wheeled Vehicle | AGL | Ability to drive a wheeled vehicle. |
| | | |



D20 Clarification: To convert old task difficulty levels to new ones, examine the old modification of the Skill Level and apply the same modification to the new system. For example, placing an explosive charge under the old system was an Easy task (roll versus 2×Combat Engineering skill). Under the D20 system, a 2× roll is an Average difficulty level, therefore placing a demolitions charge under the D20 system is an Average task.

Please note that combat-related tasks are a special case, and are discussed in the paragraph with the bold, in-text heading "Common Task Levels," which is under the "D20 System: Task Difficulty Levels" major heading.

Eratta of October 28, 1992 inserted in text.

Design: Loren K. Wiseman D20 System Design: Lester Smith Editing and Proofreading: Anne Bedard and Steve Maggi Art Direction: Kirk Wescom Cover Illustration: Tim Bradstreet and Kirk Wescom Typesetting: Steve Maggi



TWILIGHT: 2000/MERC: 2000 REFEREE'S SCREEN

This screen is intended to serve two functions: to provide the referee with a concise, convenient reference for the most needed charts during a game, and to give the referee something to hide secret diagrams, maps, die rolls, and so on from the players' eyes.

As a secondary function, this screen and the booklet it contains represent a minor revision of the Twilight: 2000/ Merc: 2000 rules system.

USING THIS SCREEN

The center charts (pages 7-10 of this booklet) were intended to be removed by carefully prying up the staples with a butter knife or similar tool, removing the pages, and folding the staples down again.

This screen was intended to be used in concert with photocopies: Each player should have an individual character sheet, each vehicle in the party should be represented by its own photocopied sheet (preferably from one of the vehicle guides, since these have check-off boxes to record fuel and ammunition expenditure, combat damage, etc.), stacked in order of speed, slowest on top. The referee should make photocopies of animal encounters for the specific area of the campaign setting, plus any special scenario encounter charts, etc.

Keeping track of combat phases is easier with a simple technique: Seat the players in order of their character's initiative rating. Use a D6 with the number of the current phase turned upward to mark the phase, and set the die in front of the player or players whose initiative number equals the phase.

At the beginning of each phase, the referee turns the die so that the number facing up is the number of the current combat phase. The die used should be a radically different color, size, or differentiated in some easily recognizable way from the other dice, to keep someone from picking it up and rolling it. One of the GDW staff uses a souvenir casino die, another uses a die that is 3" on a side.

RULE CHANGES

The main rule changes are associated with the shift from a D10 system to D20. A few other modifications have also been made.

THE D20 SYSTEM

It's remarkably easy to adapt the **Twilight: 2000/Merc: 2000** D10 task system to a broader D20 system, while retaining its compatibility with weapon damages and task statements from previous materials. And doing so certainly enhances play. Players will notice, for instance, that the D20 allows for five distinctive task difficulty levels, compared to the basic three of the D10 system. Also, defaulting to controlling Attributes is much more satisfying with this new system, and it becomes possible to include a reasonable rule for automatic success and automatic failure. There are numerous other advantages that will become evident with play.

The various tables in this booklet cover the changes necessary to adopt this new system, but a few notes of explanation are included here for clarity.

D20 without D20s: The boxed version of the game includes D10s, not D20s. If you have no D20s, simply roll a D10 and a second die (number of sides is irrelevant as long as they

are an even number), and add 10 to the result of the D10 if the result of the second die is even. Add nothing if the result of the second die is odd. An alternate method is to flip a coin for whether a particular D10 roll gets 10 added to it (heads yes, tails no). All of these methods are a little clumsy, however, and we recommend that you get a few 20-sided dice (they are quite common in game and hobby shops). Don't throw out the D10s that came with the game, however, you will still need them from time to time.

D20 CHARACTER GENERATION CHANGES

The rules that follow explain how to create the range of skill levels necessary for a D20 adaptation.

Basic Attributes: Generate these as normally, per the basic game rules.

Skill Levels: Generate all skill levels normally, but in addition record the total of the skill level and its controlling attribute. For example, a character with a STR of 9 and a Melee Combat (Unarmed) skill of 7 would record the skill as "Melee Combat (Unarmed) 7/16," the first being the skill level, and the second being the total of skill and attribute.

Skill Tests: All skill tests are versus the total of skill and controlling attribute.

Unskilled Tests: Characters may attempt to use skills for which they have no training, by making a test versus the controlling attribute alone, at one Difficulty Level higher than normal (i.e., an Easy test becomes Average, an Impossible test requires a roll versus ¹/₆th the Attribute, etc.).

Attribute Tests: GMs should be careful in assigning Difficulty Levels for tests versus Attributes alone, as the range of numbers is still only 1 to 10. Note for example that Melee Combat Agility tests have been adjusted for this reason.

Unarmed Combat Damage: Use only the basic skill level, not the total of attribute and skill, when multiplying times STR in the Unarmed Combat Damage formula.

D20 SYSTEM COMBAT NOTES

The following adaptations must be made when handling combat in the D20 system.

Small Arms Performance Limit: Under the original D10 system, a roll of 9 or 10 in direct fire combat results in a miss. When adapted to D20, the range becomes 17-20.

D20 SYSTEM: TASK DIFFICULTY LEVELS

A few comments are worth making concerning the revised task difficulty levels for the D20 system.

First, you will notice that Easy, Average, and Difficult tasks have effectively become one level lower in difficulty (Easy is now less than or equal to $4 \times$ skill, rather than merely 2). The purpose of this is to bring the task names more in line with what players would expect. That is, an average character (skill level 10 of a possible 20) will now succeed at an Average task virtually all the time (unless an Automatic Failure is rolled, see below).

Auto Success/Auto Failure: Under the D20 system, a natural roll of 1 always succeeds, and a natural roll of 20 always fails, regardless of skill level. This gives characters a small chance of success even at the absolute worst of times, and of failure even at the absolute best of times. Both of these are intellectually satisfying, and bring an element of tension to the simplest of situations. Outstanding Success/Outstanding Failure: Note that under the D20 system, a roll of 10 points or more below the target number results in an Outstanding Success, and a roll of 10 points or more above the target number results in an Outstanding Failure. Effects of these are decided by the referee unless specified by the rules.

Common Task Levels: While tasks in general have become more easy for characters to accomplish under the D20 system, combat tasks worked very well under the original D10 system. To maintain the same percentage chance of successes and failures in this area, then, the task difficulty *names* are increased one level, as summarized on the appropriate Task Levels Tables.

> "The task is Difficult: (Combat Engineering+Electronics)+2 given proper equipment, Formidable: (Combat Engineering+Electronics) given improvised equipment." Ordir

OTHER RULES CHANGES AND ADDITIONS

The remaining changes to the rules are more in the nature of fine-tuning adjustments rather than substantive changes.

EXPLOSIVE ROUNDS

The following rule was included in the **Heavy Weapons Handbook**, and clears up a minor problem area in the rules.

When a high explosive round (HE, HEAT, or one of the many variations) hits a living target, roll a number of D6s equal to the round's penetration value or concussion value, whichever is greater, and apply the entire damage rolled to the hit location that received the impact. After this, roll normally for concussion and fragmentation for everyone within the round's burst radius.

RECOIL CHANGES

The following changes are made to the recoil of certain weapons:

The recoil calculation formula used in the game did not take into account the fact that certain weapon designs absorb more of a given round's recoil than others. In semiautomatic and automatic weapons, some of the energy of recoil is absorbed into moving the breechblock and cocking the action for the next cycle. In other weapons, such as revolvers or bolt action rifles, the same size cartridge will have a greater felt recoil. This principal has been incorporated into the charts included with this book, and they are to supersede all other ratings charts. This recoil reduction applies *only* to semiautomatic and fully automatic weapons.

All SA weapons and weapons with a numerical ROF (fully automatic weapons) reduce their recoil rating by a number equal to 10 percent of the recoil rating (rounded off to the nearest whole number). For example, a weapon with a recoil rating of 8 would be reduced by 1 (10% of 8 = 0.8, rounded to 1), a weapon with a recoil rating of 18 would be reduced by 2 (10% of 18 = 1.8, rounded to 2), and a weapon with a recoil rating of 4 would be reduced by 0 (10% of 4 = 0.4, rounded to 0).

AUTOMATIC FIRE CHANGES

To determine hits in a burst of fully-automatic fire, roll 1D20 for each round in a given burst (the size of the burst is indicated in the ROF column of the firing charts for a given weapon), treating each round fired as an Impossible (i.e., ¹/₄) Small

Arms skill test to hit. Range considerations reduce the total number of dice rolled in a burst, according to the existing autofire rule. Characters my fire up to five bursts per turn, as limited by recoil and their own judgement.

RADIO DETONATION OF EXPLOSIVES

Detonating explosive by radio is a risky business, not because it is hard but because it is so easy (some electrical blasting caps can be accidently detonated by induced current from stray radio signals, and must be specially shielded to prevent this). Rigging an explosive to be radio-detonated requires an explosive charge, a standard electrical blasting cap, and a radio detonation receiver (all with the charge), plus a broadcast unit to send the required signal.

rised equipment." Ordinary failure means the charge does not detonate. Catastrophic failure means the charge detonates prematurely (at a time determined by referee, at random if desired).

"Improvising a radio detonation receiver or transmitter from a normal radio is a Difficult: (Combat Engineering+Electronics)+2 task."

The task becomes one level more difficult without an electronics tool set.

The following items of equipment become available at the discretion of the referee:

Radio-Detonation Receiver Unit: An electrical device which enables an explosive charge to be detonated from a remote location via radio signal. The receiver and its associated broadcast unit are specially adapted to send and receive a coded signal to prevent accidental detonation by harmonics or by induction. Addition of a voice recognition chip to the circuit (Difficult : Electronics) makes possible detonation by a single specific word or sound sent by the transmitter. The unit is about the size of a pack of chewing gum, and contains a ROM chip and a battery. It is attached to a normal electrical blasting cap.

The unit may receive signals from up to one kilometer. Longer distances may be possible with units improvised from longerranged radios.

Wt: Nil

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Merc: 2000 Price: \$250 (--/--)

Radio-Detonation Broadcast Unit: An electrical device which enables a charge to be detonated from a remote location via radio signal. The broadcast unit is specially adapted to send a coded signal to prevent accidental detonation of the charge by harmonics or by induction. The unit may broadcast signals from up to one kilometer. Longer distances may be possible with units improvised from longer-ranged radios.

Wt: 0.3 kg Twilight: 2000 Price: \$350 (—/—) Merc: 2000 Price: \$350 (—/—)

ENHANCED DAMAGE ROUNDS — OPTIONAL

These rounds include a broad class of small arms rounds specially-designed to trade off penetration for increased tissue damage, usually by causing the round to widen, flatten, and/or fragment. Special rounds include hollow-points, mercury loads, reversed wadcutters, dum-dums, and a number of proprietary designs too numerous to mention. Such rounds are not suitable for military use (as they violate a number of international accords and their inferior performance against body armor makes them less suitable for most military firefights).

The game effects of these rounds are as follows:

Special rounds are available only at the referee's discretion, and only in calibers between .22LR and .45 ACP. They weigh the same as normal rounds, and cost the same. Availability is up to the referee, but they cannot be more common than the round they are based upon.

Add 1 to Damage value of enhanced damage rounds, but add 2 to the penetration value. When the penetration number equals or exceeds the modified damage number, it becomes Nil. For example: A standard 7.62mmN rounds has damage of 4, and penetration of 2-3-Nil. With enhanced damage rounds, the damage becomes 5, and the penetration 4-Nil (2-3-Nil plus 2 becomes 4-5-Nil, but since 5 equals the damage, value, it becomes Nil). The round will do more damage, but is less effective against body armor.

WEAPON EXPERTISE—OPTIONAL

Expertise with a particular weapon can be gained through extensive practice. This rule may be implemented at the referee's discretion.

Melee Weapons Expertise: During the character generation process, players may wish to pick a melee weapon as the object of their character's single-minded training and practice sessions. That weapon then becomes a sub-cascade of the Melee Combat (Armed) skill on their character sheet. The detriment to this is that Melee Combat (Armed) skill for other melee weapons will be considered half of the specialty weapon. The benefit is that the character may be able to do extra damage with the weapon. This damage is applied as an additional modifier to the damage roll for the weapon, and it is equal to the skill in the specific weapon, multiplied by the character's strength, and the result divided by 10 (rounded down). In equation format, the formula is:

Damage Modifier = [Melee Combat (Armed: Weapon Speciality)×STR]+10.

Small Arms Expertise: Characters may specialize in a particular type of firearm. This specialization is indicated in a different manner from melee weapon expertise, and its benefit is not increased damage, nor is there a decrease in skill levels of Small Arms (Pistol) or (Rifle). Rather, the expertise is recorded with the weapon stats, in the equipment section of the record sheet; and the benefit is enhanced chances to hit, as detailed on the table below. The only detriment is expenditure of experience points (see Skill Improvement in the basic game) to "purchase" the enhancement, again as indicated on the table below:

| SMALL | ARMS | EXP | ERT | ISE |
|-------|------|-----|-----|-----|
|-------|------|-----|-----|-----|

| Level | XP Cost | Auto Miss | STR Bonus |
|---------|---------|-----------|---------------------------|
| Default | | 17-20 | Contraction of the second |
| 1 | 10 | 18-20 | 1 |
| - | 12 | 19-20 | 2 |
| 111 | 14 | 20 | 3 |

The "level" number is merely a convenient way of keeping track of what effects have been bought. The "XP Cost" is how many experience points must be spent to buy the enhancement (each level must be paid for separately). The "auto miss" column indicates any change to the automatic miss rule for fire combat (see the basic game). The "STR bonus" column indicates effective additions to the firer's strength for purposes of withstanding the specialty weapon's recoil.

Example: Vanna has a Strength of 5, has a Small Arms (Rifle) skill of 10, and has spent 9 experience points to purchase a level I expertise with the AK-74. Her skill is listed as "Small Arms (Rifle) 10: AK-74, I." Her skill with all rifles, including AK-74s, is 10, but she gains two benefits when firing an AK-74. First, if she fires with quick shots at a short range target and rolls a 9 and a 10, she will hit with

the first (despite the auto miss rule) and miss with the second (despite her skill level). Second, her adjusted strength of 6 (5 plus the expertise bonus of 1) is sufficient to handle the recoil for two shots with the AK-74.

SCRATCH WOUNDS - OPTIONAL

At the referee's discretion a fourth level of wound severity may be implemented below slight wound: scratch wound. If one of a character's body parts has taken damage less than or equal to half its hit capacity (round down), it is "scratched" (as in "I'm OK, its only a scratch."). Scratch wounds mainly represent the initial shock of suddenly being *hurt*. The first time that a character takes damage during combat, he loses his next action. Characters never suffer more than one lost action per day (24-hour period) for scratch wounds, regardless of how many they suffer in a combat.

ADDITIONAL CAREER — CIVILIAN Nurse

Entry: Education 5+

First Term Skills: The character receives the following skills in the first term:

- Medical 3
- Biology 1
- Chemistry 1

Subsequent Term Skills: A total of 4 levels from any one or a combination of the following:

- Medical
- Biology
- Chemistry
- Scrounging
- Instruction
- Persuasion

Contacts: Two per term, business or medical. Roll 1D10 for 7+ for the contact to be foreign.

Special: The first term is a combination of medical training and university classes. No secondary activity is allowed during this time. For each additional career period, however, nurses are allowed two secondary activities. In **Twilight: 2000**, when war breaks out, the character will receive a direct commission as a lieutenant in the medical corps.

CORRECTION: 100MM GUN

The stats for the Soviet 100mm gun were inadvertently left out of the **Twilight: 2000** revision. They are:

| Туре | Round | Rng | Damage | Pen |
|--------|----------|-----|-----------|-------------|
| 100mm | HVAPDS-T | 350 | 26 | 70/60/50/30 |
| RId: 1 | APHE | 300 | C:6, B:12 | 70C |
| | HEAT | 250 | C:4, B:10 | 60C |
| | WP | 250 | C:3, B:20 | Nil |

100mm HVAPDS-T:

Wt: 25 kgs Price: \$750 (--/R) 100mm APHE: Wt: 21 kgs Price: \$650 (--/S) 100mm HEAT: Wt: 22 kgs Price: \$650 (--/S) 100mm WP: Wt: 18 kgs Price: \$700 (--/S)

D20 SYSTEM: TASK DIFFICULTY LEVELS

| Level | Roll (1D20) |
|------------|-------------------------------------|
| Easy | ≤ 4 × (Skill + Attribute) |
| Average | $\leq 2 \times (Skill + Attribute)$ |
| Difficult | ≤ Skill + Attribute |
| Formidable | \leq 1/2* (Skill + Attribute) |
| Impossible | ≤ 1/4* (Skill + Attribute) |

Unskilled Defaults: Characters may attempt tasks for which they lack relevant skill, at one difficulty level higher, rolling against the Controlling Attribute alone. Unskilled attempts at Impossible tasks are rolled against one-eighth the Controlling Attribute of the missing skill (round fractions down). Referees should feel free to allow automatic success (no die roll required) for everyday tasks in which a character has any relevant skill. There is no such thing as automatic success in a task for which a PC has no relevant skill.

* Round fractions down. Auto Success/Auto Failure: A 1D20 roll of 1 always succeeds, and a roll of 20 always fails, regardless of skill level (except in fire combat, where 17-20 always fails).

Outstanding Success/Outstanding Failure: A 1D20 roll of 10 points or more below the target number results in an Outstanding Success. A 1D20 roll of 10 points or more above the target number results is an Outstanding Failure. Effects of these are decided by the referee.

DZU SYSTEM: COMMON TASK SUMMARY

| maked Teelse | | | |
|---|--|--|--|
| ombat Tasks | | | |
| Unarmed Melee: Attack Type | Task Difficulty | Skill | Effect |
| Strike | Difficult | Melee Combat (Unarmed) | Damage |
| Block | Formidable | Melee Combat (Unarmed) | Avoid Strike/Lose Action |
| Aimed Strike | Formidable | Melee Combat (Unarmed) | Damage to Chosen Location |
| Grapple | Difficult | Agility | Controlling "Hits" |
| Strangling | Difficult | Agility | Controlling "Hits"/Damage |
| Escape | Difficult | Agility | Remove Controlling "Hits" |
| Diving Blow, Avoid | Difficult | Agility | Avoid Diving Blow |
| Armed Melee: | | | |
| Attack Type | Task Difficulty | Skill | Effect |
| Attack | Difficult | Melee Combat (Armed)* | Damage |
| Block | Formidable | Melee Combat (Armed)** | Avoid Strike/Lose Action |
| Almed Attack | Formidable | Melee Combat (Armed) | Damage to Chosen Location |
| *Some weapons yield | | | |
| **Must have an object | to block with. | | |
| Thrown Weapon: | | | |
| Attack Type | Task Difficulty | | Effect |
| Throw | Difficult | Thrown Weapons | Damage |
| Throw, Long Range | Formidable | Thrown Weapons | Damage |
| | | | |
| Direct Fire Combat: | Test Difficult | 01.11 | = " . |
| Attack Type | Task Difficulty | Skill | Effect |
| Fire, Short Range | Avorano | Small Arms (Pistol) or (Rifle) | Damage |
| | Average | | |
| Fire, Medium Range | Difficult | Small Arms (Pistol) or (Rifle) | Damage |
| Fire, Medium Range Fire, Long Range | Difficult Formidable | Small Arms (Pistol) or (Rifle) | Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range | Difficult Formidable Impossible | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Almed | Difficult Formidable Impossible –1 Level | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Almed Fire, Target Obscured | Difficult Formidable Impossible | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured | Difficult Formidable Impossible -1 Level +1 Level | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic *See Automatic Fire Re | Difficult Formidable Impossible -1 Level +1 Level | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Almed Fire, Target Obscured Fire, Automatic *See Automatic Fire Re Indirect Fire Combat: | Difficult Formidable Impossible -1 Level +1 Level | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic *See Automatic Fire Riv Indirect Fire Combat: Attack Type | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) | Damage Damage Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Almed Fire, Target Obscured Fire, Automatic *See Automatic Fire Riv Indirect Fire Combat: Attack Type Indirect Fire, Convention | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) * <i>Skill</i> Heavy Weapons* | Damage Damage Damage Damage Damage <i>Effect</i> Explosive Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic *See Automatic Fire Ru Indirect Fire Combat: Attack Type Indirect Fire, Convention Indirect Fire, Hand-Held | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable Impossible | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) * <i>Skill</i> Heavy Weapons* Heavy Weapons* | Damage Damage Damage Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic 'See Automatic Fire Ra Indirect Fire Combat: Attack Type Indirect Fire, Convention Indirect Fire, Hand-Held 'Lower of firer's or forv | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable Impossible | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) * <i>Skill</i> Heavy Weapons* | Damage Damage Damage Damage Damage <i>Effect</i> Explosive Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic 'See Automatic Fire Re Indirect Fire Combat: Attack Type Indirect Fire, Convention Indirect Fire, Hand-Held 'Lower of firer's or forv | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable Impossible ward observer's. Bo | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) * <i>Skill</i> Heavy Weapons* Drusses for repeated fire. Cut Here | Damage Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic *See Automatic Fire Ru Indirect Fire Combat: Attack Type Indirect Fire, Convention. Indirect Fire, Hand-Held *Lower of firer's or forv Demolitions: Task Type | Difficult Formidable Impossible –1 Level +1 Level ules. Task Difficulty al Formidable Impossible ward observer's. Be Task Difficulty | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) <i>Skill</i> Heavy Weapons* Druses for repeated fire. Cut Here Skill | Damage Damage Damage Damage Damage Damage Effect Explosive Damage Explosive Damage |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic <i>"See Automatic Fire Ru</i> Indirect Fire Combat: Attack Type Indirect Fire, Convention Indirect Fire, Hand-Held <i>"Lower of firer's or forv</i> Demolitions: Task Type Set Charge | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable Impossible ward observer's. Bo Task Difficulty Average | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) <i>Skill</i> Heavy Weapons* Druses for repeated fire. Cut Here Skill Combat Engineering | Damage Effect Effect Charge Readied |
| Fire, Medium Range Fire, Long Range Fire, Extreme Range Fire, Aimed Fire, Target Obscured Fire, Automatic *See Automatic Fire Ru Indirect Fire Combat: Attack Type Indirect Fire, Convention. Indirect Fire, Hand-Held *Lower of firer's or forv Demolitions: Task Type | Difficult Formidable Impossible -1 Level +1 Level ules. Task Difficulty al Formidable Impossible ward observer's. Bo Task Difficulty Average Difficult | Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) Small Arms (Pistol) or (Rifle) <i>Skill</i> Heavy Weapons* Druses for repeated fire. Cut Here Skill | Damage Damage Damage Damage Damage Damage Effect Explosive Damage Explosive Damage |

REVISED SMALL ARMS (SEMI AND FULL AUTO)

The recoil factors of semiautomatic and fully automatic weapons (from both the **Twilight: 2000** 2nd edition rules and **Infantry Weapons** of the World) have been adjusted, as discussed elsewhere in this booklet. Only the weapons whose recoil values have changed are listed here. All others remain the same.

Pistols

| Stols | | | | | | —Re | coil— | |
|---------------|---------|-----------|------------|---------------------------------------|---------|-----------|---------------|-----------|
| Weapon | ROF | Dam | Pen | Blk | Mag | SS | Brst | Rng |
| HS Der. | SA | 1 | Nil | 0 | 21 | 7 | | 4 |
| //Gs | | | | | | | | |
| Weapon | ROF | Dam | Pen | Blk | Mag | —Re SS | coil— Brst | Rng |
| | | | Nil | 5 | 177 | 1 | 5 | 20 |
| 80 M-2 AKR | 10 5 | -1 3 | 1-Nil | 2/3 | 30 | 3 | 7 | 20 30 |
| AMD-65 | 5 5 | 3 | 1-Nii | 3/4 | 30 | 3 | 7 | 40 |
| Beretta M93R | 3 | 2 | Nil | 1 | 20 | 5 | 7 | 12 |
| stock | 3 | 2 | Nil | 2 | 20 | 3 | 5 | 20 |
| Bushmaster | 5 | · · · · · | 1-NII | 3 | 20/40 | 4 | . Q | 30 |
| Colt Scamp | 3 | 2 | 1–Nil | 1 | 27 | 4 | 6 | 12 |
| ngram M10 9mn | | . 2 | Ni | 1/3 | 32 | 2 | 8 | 20 |
| ngram M10 .45 | 10 | 2 | Nil | 1/3 | 30 | 2 | 9 | 20 |
| ngram M11 | 10 | | NI | 1/2 | 16/32 | 2 | 10 | 20 |
| V177 | 5 | 3 | 1-Nil | 3/4 | 20/30 | 3 | 7 | 40 |
| M177 9mmP | 5 | 2 | NI | 3/4 | 20/30 | 2 | 5 | . 30 |
| M32/M712 | 5 | 2 | Nil | 1 | 10/20 | 4 | 8 | 12 |
| stock | 5 | 2 | Nil | 3 | 10/20 | 4 | 5 | 20 |
| Mini-Uzi | 10 | 2 | Nil | 1/3 | 20/30 | 2 | 9 | 30 |
| MP5A2 | 5 | 2 | Nil | 4 | 15/30 1 | 2 | 5 | 30 |
| np-sk | 5 | 2 | Nil | 3 | 15/30 | 3 | 7 | 12 |
| MP-5SD3 | 5 | 2 | Nil | 3/4 | 15/30 | 2 | 5 | 30 |
| subsonic | 5 | 1 | Nil | 3/4 | 15/30 | 1 | 3 | 30 |
| ¥4.63 | 5 | | - N | · · · · · · · · · · · · · · · · · · · | 1540 | 3 | 7 | |
| eipeik | 5 | 1 | 12 | 3 | 15.40 | 2 | 3 | 20 |
| Stechkin | 5 | 1 | M | 1 | 20 | 5 | 12 | 12 |
| stock | 5 | 1 | Nil | 3 | 20 | 3 | 7 | 20 |
| Type 64 | 10 | 2 | 1-Ni | 3/4 | 40 | 2 | 9 | 30 |
| subsonio | 10 | 1 | 1-Ni | 3/4 | 40 | 1 | 4 | 20 |
| VP-70 | SA | 2 | Nil | 1 | 18 | 5 | | 12 |
| stock | 3 | 2 | Nil | 3 | 18 | 4 | 5 | 20 |
| Vz-61/62 | 5 | 1 | Nil | 1 | 10/20 | 3 | 6 | . 4 |
| stock | 5 | . 1 | Nil | 3 | 10/20 | 1 | 4 | 12 |

Rifles

| lines | | | | | | —Red | coil— | |
|-------------|-----|----------|--------------------|--------------|-------|-----------|----------|----------|
| Weapon | ROF | Dam | Pen | Blk | Mag | SS | Brst | Rng |
| AK-47 | 5 | 3 | 2-Nil | 5 | 30 | 3 | 7 | 50 |
| AK-74 | 5 | 3 | 1-Nil | 5 | 30 | 3 | 7 | 50 |
| AKM | 5 | 3 | 2-NII | 5 | - 30 | 3 | 7 | |
| AKMR | 5 | 3 | 1-Nil | 5 | 30 | 3 | 6 | 45 |
| AR-10 | 5 | - 4 | 2-3-Nil | 5 | 20 | 4 | 8 | 65 |
| AR-18 | 5 | 3 | 1-Nil | 4/5 | 20/40 | 3 | 8 | 55 |
| AR-70 | 5 | 3 | 1-Nil | 5 | 30 | 3 | 7 | 55 |
| Barret M82* | SA | 9 | 2-2-3 | 4 | 5 | 7 | _ | 50 |
| bipod | SA | 9 | 2-2-3 | 4 | 5 | 4 | — | 90 |
| BM-59 | 5 | . 4 | 2-3-Nil | 5 | 20 | 4 | 8 | 65 |
| FA-MAS | ÷, | 3 | 1-NI | 4 | 25 | 4 | 7 | 50 |
| FG.42 | | | | 1 2 1 | 20 | 1 - E 🛓 👘 | <u>.</u> | 65 |
| FN-FAL | 5 | # | 2-3-Nil 2-3-Nil | 5 | 20 | 4 | 8 | 75 65 |
| FN-FNC | 3 . | 3 | 1-Nii | 5 | 30 | 3 | ĥ | 50 |
| G3 | 5 | 4 | 2-3-Nil | 5 | 20 | 4 | 7 | 65 |
| GalilARM | 5 | 3 | 1-Nil | 4/5 | 35/50 | 3 | 6 | 55 |
| HK 33A2 | 5 | 3 | 1-Nil | 5 | 20/40 | 3 | 7 | 55 |
| L85 IWS | 5 | 3 | 1-Nil | 4 | 20 | 3 | 6 | 50 |
| M14 | 5 | 4 | 2-3-Nil | 6 | 20 | 4 | 8 | 70 |
| M2 Carbine | 5 | 2 | 1-Nil | 4 | 15/30 | 3 | 7 | 50 |
| Mk I Boys | SA | 11 | 2-2-3 | 8 | 5 | 8 | — | 20 |
| monopod | SA | 11 | 2-2-3 | 8 | 5 | 5 | — | 75 |
| MKS | 5 | 3 | 1-Nil | 3/4 | 30 | 4 | 8 | 55 |
| MP-44 | 5 | 3 | 1-Nil | 5 | 30 | 3 | 6 | 55 |
| PSG1* | SA | 4 | 2-3-Nil | 6 | 20 | 5 | | 75 |

| | Area | | Fore Winter | ging Spring | ı Sun | Mittel | Fall |
|--------------|---|---|-----------------------------|------------------------|------------------------|------------------|------------------------|
| | Wood/scrub Meadow/swar Field Fishing (1D6× | | 1 0 0 1/2 | 3 1 0 2 | | 6 2 5 1 | 6 2 50 |
| | |) | | unters | | 1 | I |
| | Terrain Die Road | Wood | Swamp | Hill | Cle | | River |
| | 0 Group 1 Group | Group Group | Group Group | Grou Grou | p Gro | up C | aroup Group |
| | 2 Group 3 Group 4 Item | Animal Group | ltem Group Animal | Anim Item Grou | Aniı | mal H | em lazard lazard |
| | 5 Item 6+ None | ltem | None None | Anim None | al Iten | י ר | lone Ione |
| | OT INCIDE | | - Hourie | HUNG | | | |
| Gn | | | Group En Org. Ind. | counters Ins. Te | | Dek Dip. | Cnt. |
| Mai | rauders | | 1 1 | 1,2 1,2 | 2 1,2 | 1,2 1 | |
| | Convey | i in the second s | 2,3 2 4,5 — | | | 3 2,3 4,5 4,5 | 1,2 3,4 |
| Ref | rchant Convoy ugees | | 6 3,4 | 3 — — 3,4 | 1 | | 5 |
| Hur | vers niers | | 5 7 6,7 | 4 5 5,6 6 | 7 | 6 — 7 — | 6 |
| Sm | nitives uggiers | - 4. | 8 8 | 7 7 | 8 9 | 8,9 — | 7 |
| | ge Unit agglers | | 9 9 10 10 | 9 9 10 1 0 | 10 | — 8,9 10 10 | 8,9 10 |
| | | | ltem Er | counters | | | |
| ter Ville | n age | | Org. 1,2 | Ind. In 1,2 1, | s. Ter. | An. Dev. 1 — | Dsp. Cnt. |
| Rui | ned Village m | | | 1,2 1, — — 3,4 3 | - 3 | 2 1,2 | 2 — |
| Rui | ned Farm adblock/Camp | | | 5 4 67 | 2 | 4 3,4 | 4 3 5 4 |
| Sup | oply Dump andoned Supply | | 7 | 5 | | 5 5 | 6 5 6 |
| Rep | pair Yard andoned Repair | - | 8 | 6 | | 6 6 | 77 |
| Fie | ld Hospital andoned Field I | | 9 | 8 — — 7 | | 77 | 89 |
| | relict Vehicle | | 10 | 98 | | 88 99 | 9 - |
| Der | relict Convoy | | — | 1(|) 10 | 10 10 | 10 — |
| | Spottir | ng Modifier | S | | T | erritories | |
| | ndition | Own | Enemy | | | | |
| | r Character | 1 5 | +1 +5 | Die 1 | Territory Organized | | counter DM |
| | Encou | Inter Range | 9 | 2 | Independe Insular | ent (|) |
| | Terrain | - | nge | 4 | Terrorized Anarchy | (|) •1 |
| Č | Open Hill | 1D | 10×300m 10×100m | 6 | Devastate | d- | +2 |
| S | Swamp Noods | 1D | 10×100m 10×30m 10×10m | 7 8 | Disputed Cantonme | | -1 -1 |
| | | | | | | | |

Twilight: 2000/Merc: 2000 Referee's Screen

| Set | tlement Att | - | 1D6) |
|-----|-------------|------------|--------|
| Die | , | itude | |
| 1 | Fo | od Shortag | je |
| 2 | ۲ì | iendiy & C | urious |
| 3 | | iendly & C | |
| 4 | O | pen to Cor | ntact |
| 5 | | outral | |
| 6 | Ne | eutral | |
| 7 | | spicious | |
| 8 | Fr | ightened | |
| 9 | De | efensive | |
| 10 | Ho | ostile | |
| | | | |

Territory Die Roll Modifiers:

+1, Organized, Devastated; +2, Anarchy, Disputed, Cantonment; +3, Insular, Terrorized.

| Settlen | nent Crisis (1D10) |
|---------|--------------------------|
| Die | Attitude |
| 1 | Food Shortage |
| 2 | Engineer Needed |
| 3 | Ammunition Shortage |
| 4 | Impending Attack |
| 5 | Internal Unrest |
| 6 | Rampant Corruption |
| 7 | Citizens Kidnapped |
| 8 | Mechanic Needed |
| 9 | Epidemic, Doctor Needed |
| 10 | Disease, Medicine Needed |
| | |

Urban Government (1D6)

| Die | Attitude |
|--------|------------------------|
| 1 2 | Federated Federated |
| 3 | Popular Council |
| 4 | Corrupt Council |
| 5 | Popular Council |
| 6 | Dictator |
| 7 | Warlord |
| 8 | Captive |
| 9 | Anarchy |
| 10 | Captive |
| 11 | Anarchy |

Territory Die Roll Modifiers:

+2, Independent; +3, Insular, Disputed; +4, Terrorized; +5, Anarchy.

| U | rban | Er | ICO | un | ters | (1 | D6 | i) | |
|---|------|----|-----|----|------|----|----|----|--|
| | _ | | | | | | | | |

| 0.0 | | |
|-----|------------|------------|
| Die | Day | Night |
| 1 | None | None |
| 2 | None | None |
| 3 | None | None |
| 4 | Patrol | None |
| 5 | Patrol | Scavenger |
| 6 | Work Gang | Thugs |
| 7 | Refugee | Gang |
| 8 | Scavenger | Primitives |
| 9 | Primitives | Dogs |
| 10 | Mob | Gang |
| 11 | Gang | Dogs |

Government Type Die Roll Modifiers: +1, Corrupt Council; +2, Captive, Anarchy.

Settlement Size Die Roll Modifiers: +1, Town; +2, City: +3, Major City.

| 1 50 1000 10,000 30,000 2 100 1500 12,000 40,000 3 150 2000 14,000 50,000 4 200 2500 16,000 60,000 5 250 3000 18,000 70,000 6 300 3500 20,000 80,000 | Settlement Size (1D10) | | | | |
|---|------------------------|---------|------|--------|------------|
| 2 100 1500 12,000 40,000 3 150 2000 14,000 50,000 4 200 2500 16,000 60,000 5 250 3000 18,000 70,000 6 300 3500 20,000 80,000 | Die | Village | Town | City | Major City |
| 3 150 2000 14,000 50,000 4 200 2500 16,000 60,000 5 250 3000 18,000 70,000 6 300 3500 20,000 80,000 | 1 | 50 | 1000 | 10,000 | 30,000 |
| 4 200 2500 16,000 60,000 5 250 3000 18,000 70,000 6 300 3500 20,000 80,000 | 2 | 100 | 1500 | ኀ2,000 | 40,000 |
| 5 250 3000 18,000 70,000 6 300 3500 20,000 80,000 | 3 | 150 | 2000 | 14,000 | 50,000 |
| 6 300 3500 20,000 80,000 | 4 | 200 | 2500 | 16,000 | 60,000 |
| | 5 | 250 | 3000 | 18,000 | 70,000 |
| | 6 | 300 | 3500 | 20,000 | 80,000 |
| 7 350 4000 22,000 90,000 | 7 | 350 | 4000 | 22,000 | 90,000 |
| 8 400 4500 24,000 100,000 | 8 | 400 | 4500 | 24,000 | 100,000 |
| 9 450 5000 26,000 110,000 | 9 | 450 | 5000 | 26,000 | 110,000 |
| 10 500 5500 28,000 120,000 | 10 | 500 | 5500 | 28,000 | 120,000 |
| Armed 20% 10% 5% 5 | Armed | 20% | 10% | 5% | 5% |

ALCOHOL OUTPUT

| Still Size | Input | Output |
|--------------|-------|--------|
| Small Still | 30 | 5 |
| Medium Still | 80 | 35 |
| Large Still | 3000 | 2400 |

Input is in kilograms, output is in liters.

FUEL ENERGY TABLE

| Fuel | СМ |
|----------|-----|
| Gas | 1 |
| A♥gas | 1 |
| Diesel | 1 |
| Ethanol | 3 |
| Methanol | 3.5 |
| Wood | 5 |
| Coal | 2 |

CM: Consumption multiplier

FOOD CONSUMPTION

| Human | 1.5 kg MRE or 2 kg domestic ar 3 kg wild |
|----------|--|
| Horse | 15 kg grain & |
| | graze 8 hrs |
| Mule . | 10 kg grain & |
| | græze 8 hrs |
| Ox | graze 8 hrs |
| Camel | graze 8 hrs |
| Elephant | graze 8 hrs |

NAVIGATION HAZARDS

| Die | Result |
|-----|-------------------------------------|
| 1 | Bost aground. 10 miles travel lost |
| | pulling it cift. |
| 2 | Boat aground. One full travel pe- |
| | riod lost pulling it off. |
| â | Screworrudder damaged. Speed |
| | haived until repaired. |
| 4 | Hull damaged. Hole is 1D6 dam- |
| | age points large. |
| 5 | Hull damaged. Hole is 2D6 dam- |
| | age points large |
| 6 | Hull crushed. Vessel is grounded to |
| | avoid sinking. Cannot be refloated |
| | unless a large work crew and ves- |
| | |

sel are brought to the site.

| | Iten | n Informat | tion | |
|--------------------------|-------------|----------------|--|-----------------------|
| Item | People | Туре | Weapons | Goods |
| Village | See pages | 161-162 of Tw | vilight: 2000. | |
| Ruined village | None | | | 1-2: Food, 3-4: Mrcht |
| Farm | 2D6 | X/N | Civilian | Food |
| Ruined farm | None | | the state of the s | 1-2: Food |
| Roadblock/camp | Patrol/mara | auder band (se | e Encounter Stat | istics Table below). |
| Supply dump | 3D6 | X/N | Military | Military |
| Abandoned supply dump | None | | | 1-2: Military |
| Repair yard | 3D6 | X/N | Military | Parts, vehicles |
| Abandoned repair yard | None | * | | Derelict, 1-4: Parts |
| Field hospital | 3D6 | X/N | Military | Medical |
| Abandoned field hospital | None | | | 1-3: Medical |
| Crater | None | | Contract of the second second | |
| Derelict vehicle | None | | | |
| Derelict convoy | None | | | 1-2: Mil, 3-4: Mrcht |

| Encounter Statistics | | | | | | | | |
|----------------------|---------|-------------|------|----------|---------------|------------------------|--|--|
| Group | Number | Observation | Туре | Weapons | Heavy Weapons | Transport | | |
| Marauders | 1D6×1D6 | 80 | X/N | Military | 1-3 | 1-2: H, 3-4: V | | |
| Patrol | 1D6+6 | 80 | V/X | Military | 1-4 | 1-2: H, 3: V, 4: A | | |
| Military convoy | 1D6×6 | 60 | X/N | Military | 1-2 each | 1-2: W, 3-6: V | | |
| Merchants | 106x4 | 80 | V/X | Civilian | 1 each | 1-4: W, 5-6: V | | |
| Refugees | 1D6×5 | 40 | Ν | Poor | None | None | | |
| Slavers | 10644 | 80 | V/X | Military | 1-2 | 1-4; H | | |
| Hunters | 1D6 | 60 | X/N | Civilian | None | 1-2: H | | |
| Primitives | 2D6 | 60 | X/N | Poor | None | None | | |
| Smugglers | 2D6 | 60 | X/N | Civilian | None | 1-2: H, 3-4: W, 5-6: V | | |
| Large unit | 1D10×10 | 80 | V/X | Military | Yes, each | 1:A, 2:H, 3:V, 4:Arty | | |
| Stragglers | 1D6 | 60 | X/N | Military | None | 1:H | | |

.

Transport Abbreviations: H: Horse V: Motor vehicle W: Wagon A: Armored vehicle Arty: Artillery.

Encounter Equipment

| Die | Heavy Weapons | Artillery | Motor Vehicles | Armored Vehicles | Military Cargo | Merchant Cargo | | | |
|------------------------|---|-----------|----------------------------------|---------------------|-------------------|-------------------|--|--|--|
| 1 | AT missile | Rapira-3 | 5-ton | Tank | Ammo | Scrap metal | | | |
| 2 | AT rocket | Mortar | 5-ton | Light AFV | Parts | Machinery | | | |
| 3 | Grenade launcher | Mortar | 2.5-ton | Light AFV | Medical | Food | | | |
| 4 | Machinegun | Howitzer | 21/2-ton still | APC | Food | Wool | | | |
| 5 | Machinegun | Howitzer | ³ / ₄ -ton | APC | Fuel | Clothing | | | |
| 6 | Machinegun | SPA | UAZ-469 | IFV | Weapons | Furnishings | | | |
| Tank: Light APC: | 6 Machinegun SPA UAZ-469 IFV Weapons Furnishings SPA: Any self-propelled howitzer or air defense gun. Tank: Any tank in the Equipment List. Light AFV: Any light combat vehicle in the Equipment List. APC: Any armored personnel carrier in the Equipment List except those listed below under IFV. IFV: Infantry fighting vehicle—M2 or any BMP variant. | | | | | | | | |



| | | | | | | —Rec | coil— | |
|----------------|-----|-----|---------|------|----------|------|-------|-----|
| Weapon | ROF | Dam | Pen | Bik | Mag | SS | Brst | Rng |
| PTRS-41* | SA | 12 | 2-2-3 | . 11 | 5 | 9 | | 40 |
| bipod | SA | 12 | 2-2-3 | 11 | 5 | 5 | _ 57 | 75 |
| RPK | 10 | 3 | 2-Nil | 5 | 30/40/75 | 1 | 5 | 60 |
| bipod | 10 | 3 | 2-Nil | 5 | 30/40/75 | 1 | 3 | 75 |
| RPK-74 | 10 | 2 | 1-Nil | 5 | 30/40 | - 1 | 5 | 50 |
| bipod | 10 | 2 | 1-Nil | 5 | 30/40 | 1 | 3 | 75 |
| Ruger AC-556 | 5 | 3 | 1-Nil | 5 | 20/30 | 4 | 8 | 50 |
| SIG 510-4 | 5 | 4 | 2-3-Nii | 5 | 20 | 5 | 8 | 65 |
| Steyr AUG | 5 | 3 | 1-Nil | 4 | 30 | 3 | 7 | 50 |
| Steyr AUG Car. | | 3 | 1-Nii | 3 | 30 | 4 | 8 | 45 |
| Stoner M22 | 5 | 3 | 1-Nil | 5 | 30 | 3 | 7 | 55 |
| Stoner M23 | 5 | 3 | 1-Nil | 3/4 | 30 | 3 | 6 | 50 |
| Type 64 | 5 | 4 | 2-3-Nil | 5 | 20 | 4 | 8 | 65 |
| Vz-58V | 5 | 3 | 1-NI | 3/4 | 30 | - 3 | 8 | 55 |

 58V
 5
 3
 1-Nil
 3/4
 30
 3
 8
 55

 *All sniper rifles come with a scope. With the scope, add 15 meters to the basic range for aimed shots. If the scope is later damaged or
lost (or for quick shots) this modifier is not added.

†One shot per 30-seconds.

Backpack is good for 12 shots; none are actually carried "in" weapon.

Shotguns

| | | | | | | —Re | coil— | |
|--------------|--------------|-----------------|---------|-------|-----|-----|-------|-----|
| Weapon | ROF | Dam | Pen | Blk | Mag | SS | Brst | Rng |
| H&K CAW | 5† | 4 | 3-4-Nil | 4 | 10 | 3 | . 7 | 40 |
| Close* | 5 | 9 | Nil | 100 C | | | | |
| Medium* | 5×10 | 1 | Nii | 200 | | | | |
| Ithica Auto. | SA | 3 | Nil | 2 | 2i | 5 | | 12 |
| Close* | SA | 9 | Nil | | | Ŭ | | 12 |
| Medium* | 5×10 | 1 | Nil | | | | | |
| * Buckshot | 600 nora 200 | of Twiliabt. 20 | 200 | | | | | |

*Buckshot, see page 200 of Twilight: 2000.

Machineguns

| | | | | | | Re | coil— | |
|---------------|---------------------------|-----------------|------------------|-----|---------|-----|-------|-----------|
| Weapon | ROF | Dam | Pen | Blk | Mag | SS | Brst | Rng |
| AAT-52 | 10 | 4 | 2-3-Nii | 5 | 50B | 1 | 7 | 65 |
| bipod | 10 | 4 | 2-3-Nii | 5 | 50B | 1 | 4 | 90 |
| tripod | 10 4 | . 4 | 2-3-Nil | 5 | 50B | 1 | 4 | 125 |
| DShK | 5 | 9 | 2-2-3 | 8 | 50B | 6 | 15 | 65 |
| tripod | 5 | 9 | 2-2-3 | 8 | 50B | 3 | 7 | 150 |
| L86A1 LSW | 10 | Si 3 | 1-Nil | 5 | 30/100B | . 2 | 10 | 50 |
| bipod | 10 | 3 | 1-NI | 5 | 30/100B | | 5 | 65 |
| M2HB | 5 | 8 | 2-2-3‡ | 8 | 105B | 3 | 13 | 65 |
| tripod | 5 | 8 | 2-2-3‡ | 8 | 105B | 2 | 6 | 150 |
| MAG | 10 | | 2-3-Nii | 6 | 1008 | | 6 | 65 |
| bipod | 10 | | 2-3-Nil | 6 | 1008 | 1 | 4 | 90 |
| tripod | 10 | 4 | 2-3-Nil | 6 | 100B | • | 2 | 125 |
| MG-3 | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 6 | 65 |
| bipod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 3 | 90 |
| tripod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 1 | 125 |
| MG-34 | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 6 | 65 |
| bipod | 10 | 4 | 2-3-Nil | 6 | 508 | 1 | 4 | 90 |
| tripod | 10 | 4 | 2-3-NH | 6 | 50B | 1 | 2 | 125 |
| MG-42 | 10 | 4 | 2-3-Nil | 6 | 50B | 2 | 7 | 65 |
| bipod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 4 | 90 |
| tripod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 2 | 125 |
| Steyr LMG | 10 | 3 | 1-Nil | 4 | 30 | 4 | 16 | 50 |
| bipod | 10 | 3 | 1-Nii | 4 | 30 | 2 | 8 | 65 |
| Stoner LMG | 10 | 3 | 1-Nil | 5 | 30 | 2 | 10 | 60 |
| bipod | 10 | 3 | 1-Nil | 5 | 30 | 1 | 5 | 75 |
| tripod | 10 | 3 | 1-Nil | 5 | 30 | 1 | 3 | 90 |
| S. M207/Mk 23 | - 10 | 2 | 1-Nil | 4 | 100B | 2 | 8 | 50 |
| bipod | 10 | 2 | 1-NI | 4 | 100B | 1 | 5 | 65 |
| tripod | 10 | 2 | 1-NI | 4 | 1008 | 1 | 2 | BO |
| Vz-59 | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | | 65 |
| bipod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 5 | 90 |
| tripod | 10 | 4 | 2-3-Nil | 6 | 50B | 1 | 4 | 90 125 |
| ± .50 SLAF | ^o ammunition h | as a nenetratio | n value of 1 1 0 | - | 000 | I | 4 | 120 |

‡ .50 SLAP ammunition has a penetration value of 1-1-2.

CONSOLIDATED HEAVY WEAPONS CHARTS

These tables include all man-packed heavy weapons from the basic game and from the Heavy Weapons of the World.

| Туре | Incher ROF | Rld | Rng | Round | Damage | Per |
|--|---------------|-------------------------------|--------------------------|-------------------|---|-------------------|
| Apilas Armbrust | 1 | 2 | 200 75 | HEAT HEAT | C:4, B:4 C:4, B:4 | 600 550 |
| B-300 | | 2 | 100 125 | HEAT | C:4, B:4 C:12, B:12 | 550 |
| Eryx | 1 | 2 | 600 | HEAT | C:12, B:12 | 600 |
| LAW 80 LRAC F1 | 1 | 2 | 125 125 | HEAT HEAT | C:6, B:4 C:4, B:4 | 1000 700 |
| M12 SMA | W 1 | 2 | 100 125 | HEAT | C:4, B:4 C:12, B:12 | 550 50 |
| M20A1 M72 LAM | 1 | 2 | 25 50 | HEAT HEAT | C:3, B:4 C:3, B:4 | 550 550 |
| M136 RPG-7 | 1 | | 75 50 | HEAT HEAT | C:4, B:4 C:4, B:4 | 700 550 |
| RPG-16 | 1 | 2 | 100 | HEAT | C:6, B:6 | 650 |
| RPG-18 RPG-22 | 1 | _ | 75 80 | HEAT | C:4, B:4 C:4, B:4 | 60(60(|
| RPG-27 RPG-75 | 1 | 2 | 60 100 | HEAT HEAT | C:4, B:4 C:4, B:4 | 4 5 0 |
| Type 69 | 1 | 1 | 50 | HEAT | C:4, B:4 | 600 |
| <mark>rge Ca</mark> li <mark>l</mark> <i>Type</i> | | n <mark>s (An</mark> Round | tiaircraft <i>Rng</i> | t Artillery) | mage | Pe |
| KS-12 | | APHE | 600 |) C:5 | , B:10 | 500 |
| | | HVAP HE | 40(70(| | , B:24 | 5/20/1 4(|
| KS-19 | | HE APHE | 1500 800 | | s, B:20 3 | 40 15/25/1 |
| KS-30 M-1944 (J | | HE APHE | 2750 600 | | , B24 , B:10 | 4(500 |
| | • | HVAP | 400 |) 22 | | 25/20/1 4(|
| 5-60 | | het | | | , 624 | 4 |
| Type 59 | | API Het | 1200 |) C:6 | , B:24 | 0/10/5/ 4(|
| rge Calil | ber Gu | ns (An | titank Aı | rtillery) | | |
| Type N AN | | Round APHE | Ar Et | | | Pe en |
| | | hrad (| 40 | 0 22 | 2 | 5251 |
| D-74 <i>IFR:</i> 15 | ikm . | HE HEAT | 30 30 | 0 C:10 | B:28 B:20 | 10 1000 |
| Rld:1 | | WP CHEM | 30 30 | · · · · | | N N |
| | | | - | - B:36 - B:150 | C | Grenad N |
| 1954 j | 47) . | HYAPD APHE | | | 701 | insen T |
| | | ie at | | Q C4, | 3:10 | |
| W-1946 | | har t. He | 90 90 | | 932 | н н 4(|
| IFR:27 Fiid:2 | | APHE WP | 80 100 | | | 15/35/20 N |
| 4-1976 JED 14 | | he Aphe : | | | | |
| - Fit 2 | | | | 0 03. 8 03. | | N |
| | | ĈN - | | - 860 | | tranad |
| M-1966 | | HE HE | 65 | | *************************************** | N 4(|
| Fapta-3 | | HEAT Apesd | 6.) S 45 | 0 C:4. 0 28 | 3:8 10 0 | 55) 10605 |
| - R #2 | | | | | | |
| Royal On | | | 35 | 0 C14 | .a.28 | |
| <i>ÌFR:</i> 18 | 8km - | HEAT | 35 | 0 C:10 | B:20 B:16 | 11 100 |
| Rld:2 | | HESH | 35 | | B:16 | 800 |
| | | WP | - | – C:10 | D:32 | N |

| game and from the | | | | |
|---|---|---------------------------------|---|---|
| <i>Type</i> S-23 <i>IFR:</i> 30km <i>RId:</i> 4 SD-44 | Round HE HE-RAP APHE | Rng 450 450 600 | Damage C:32, B:40 C:32, B:40 C:5, B:10 | Pen 40 40 500 |
| D-44 T-12 | HVAP APHE HVAP HVAPDS-T APHE | 400 600 400 350 300 | 22 C 5, B:10 22 26 C:6, B:12 | 25/20/15 500 25/20/15 70/60/50/30 70C |
| 11 | HEAT WP | 250 250 | C:4, B:10 C:3, B:20 | 60C Nil |
| Howitzers Type | Round | Ring | Damage | Part |
| M198 #FR:24km F87:2 | HE HEAT WP CHEM ICM-DP ILLUN FASCAM | | C30, B36 C20, B28 C3, B44 C3, B25 S50 B320 B124 | SC 110C Nil Grenads Nil Mine |
| TR IFR:26km RId:2 | HE HEAT WP CHEM ICM-DP ILLUM | 350 350 350 350 | C:30, B:36 C:20, B:28 C:3, B:44 C:3, B:28 B:60 B:2000 | 3C 110C Nil Nil Grenade Nil |
| D-1 IFR:198m Rdr2 D-20 | HE HEAT WP CHEM ILLUM HE | 333 300 300 300 | C:24, B:36 | 3C 80C Nii Nii Nii Nii 3C |
| <i>IFR:</i> 19km <i>RId:</i> 2 | HEAT WP CHEM ICM ILLUM | 350 300 300 — | C:8, B:12 C:3, B:44 C:3, B:28 B:60 B:2000 | 80C Nil Nil Grenade Nil |
| D-30 <i>IFR:</i> 15km Föd:1 | HE HEAT WP CHEM IOM | | | 1000 1000 Ni Granade |
| FH-70 <i>IFR:</i> 24km <i>RId:</i> 2 | HE HEAT WP CHEM ICMDP | 350 350 350 350 | C:30, B:36 C:20, B:28 C:3, B:44 C:3, B:28 B:60 | 3C 110C Nil Nil Grenade |
| M-58 IFR:24km Fild:2 | ILLUM FASCAM | 350 350 350 350 | B:2000 B:124 C:30, B:36 C:20, B:28 C:3, B:44 C:3, B:28 B:40 | Nil Mine SC 110C Nal Nal Grenacie |
| M-1931 <i>IFR:</i> 18km <i>Rld:</i> 8 | ELUM FASCAM HE | 400 | B:2000 B:124 C:36, B:44 | Ni Mine 4C |
| Mortars Type L5 IFR:4,54m | Rnd HE WP JLLUM | | Damage C.S. 8:28 C.2. 8:20 8:1000 C:2. 8:20 | Pen -40 Ni Ni |
| L16A2 <i>IFR:</i> 4.5km | HE WP ILLUM | | C:8, B:28 C:2, B:20 B:1000 | -4C Nil Nil |

| Туре | Rnd | Damage | Pen |
|-----------------------------|--|---|----------------|
| M-1937 | HE | C:8, B:28 | -4C |
| IFR:4km | WP | C:2, B:20 B:1000 | Nil |
| M-1943 | HE | C:16, B:44 | 0C |
| <i>IFR:</i> 6km | WP | C:3, B:36 | Nil |
| | ILLUM CHEM | B:1500 C:3, B:12 | Nil Nil |
| M-1952 | HE | C:40, B:48 | -4C |
| <i>IFR</i> :9.7km M-1953 | HE | C:26, B: 40 | -4C |
| JFR:8km | CHEM | C:4, B:18 | -40 Nii |
| M29Ê1 | | CH.8 28 | |
| | | 62,820 8100 | |
| M30 | HE | C:12, B:36 | -20 |
| IFR:6km | WP | C:3, B:36 | Nil |
| | ILLUM | B:1500 | Nil |
| | | B:36 C:3, B:12 | Grenade Nil |
| 1224 | HE | 05,020 | N il |
| FR.4km | MP. | | |
| Thompson-Brandt | HE | C:16, B:44 | 0C |
| IFR:6km | WP | C:3, B:36 | Nil |
| | | B:1500 C:3. B:12 | NII |
| Wee Gambe | | | INI NI |
| - Ann | WP | | N |
| Cristian El ma | | | NI |
| Firskin | WP | a di seria di seria Seria di seria di seri Seria di seria di seri | |
| | in in the second se | | Ni |
| 82mm /5674km | | | -40 |
| | | | |
| | | | |

Mines

| Туре | Damage | Pen |
|--------------|--------------------|-----------|
| KhF-2 CHEM | C:4, B:20 | Nil |
| M14 APERS | C:8, B:16 | Fragments |
| M15AT | C:22, B:22 | 300 |
| M16A1 APERS | C:8, B:32 | Fragments |
| M18A1 APERS | ee Speci al | Fragments |
| M19 AT | C:22, B:22 | 30C |
| M21 AT | Call, 8:18 | 240 |
| M23 CHEM | C: 4, B: 20 | Nil |
| M24 AT | C:8, 8:4 | 90C |
| M25 APERS | Special | Fragments |
| M26 APERS | C.2, 812 | Fragments |
| M66 AT | C:6, B:4 | 90C |
| MON-50 APERS | Special | Fragments |
| PM APERS | Special | Fragments |
| POMZ-2 APERS | C:2, B:#** | Fragments |
| TM-46 AT | C:16, B:40 | 24C |
| TM-57 AT | C:18, B:40 | 30C |
| Wojo AT | C:18, B:40 | 20C |
| YaM5 AT | C:16, B:40 | 24C |

Multiple Rocket Launchers

| Туре | Flound | Ping | Damage | Pen |
|-------------------|--------|------|------------|------|
| 122mmar | FB | | | 10 |
| iFR:-1km | | | | N |
| FFW: 2 | WP | | - Da Rui | . Ni |
| RPU-14 MRL | HE | | C:12, B:32 | 1C |
| <i>lFR:</i> 9.8km | CHEM | | C:4, B:24 | Nil |
| Fild:10 | WP | man | C:3, B:32 | Nii |
| Type 63 MPL | HE | | . CA, 834 | 4C |
| iFA:8km ; | | | | |
| - Aid 20 | | | | |
| WP-8 MRL | HE | | C:12, B:32 | 1C |
| <i>IFR:</i> 9.8km | CHEM | | C:4, B:24 | Nil |
| RId:8 | WP | | C:3, B:32 | Nil |

| Туре | Round | Rng | Damage | Pan |
|--------------------|----------------|--|------------|---------|
| RW.70 WRL | . 16 | and the second | £76, 741 | 10 |
| FF21km | СНЕМ | ا المنصل ا | - C4, 8:30 | h) |
| - Fic 40 | HAP | السيطر ا | Ca Baa | |
| BM-27 MRL | HE | | C:26, B:38 | 4C |
| <i>IFR:</i> 40km | CHEM | | C:4, B:30 | Nil |
| Rld:24 | WP | — | C:4, B:46 | Nil |
| | ICMDP | | B:60 G | renade† |
| | FASCAM | _ | B:124 | Mine |
| * Sinale rocket fr | rom improvised | launcher. | | |

Single rocket from improvised launcher.
 Use 203mm ICMDP attack table on page 259 of Twilight: 2000.

Special Mortar Rounds

| Туре | Rld | Max. Rng | Damage | Pen |
|--------|-----|----------|----------|-----|
| Merlin | 2 | 4500 | C:5, B:5 | 200 |
| Strix | 2 | 6500 | C:8, B:8 | 90C |

Antitank Missiles

| Туре | Rld | Max. Rng | Damage | Pen |
|-----------------|-----|----------|------------|------|
| ADATS (AT) | 1 | 6000 | C:12, B:20 | 1700 |
| AT-3 "Sagger" | 2 | 3000 | C:6, B:4 | 75C |
| AT-4 "Spigot" | 3 | 2000 | C:6, B:4 | 100C |
| AT-7 "Saxhorn" | 2 | 1000 | C:12, B:12 | 100C |
| AT-8 "Songster" | 6 | 5000 | C:12, B:12 | 1150 |
| Dragon PIP | 2 | 1000 | C:12, B:12 | 135C |
| FOG-M (AT) | 2 | 10,000 | C:12, B:12 | 160C |
| HOT | 2 | 4000 | C:12, B:12 | 155C |
| MILAN II & II-T | 3 | 2000 | C:12, B:12 | 145C |
| RBS-56 BILL | 2 | 2000 | C:8, B:8 | 130C |
| SS-11 | | | | |
| HEAT | 2 | 4000 | C:8, B:8 | 1200 |
| APERS | 2 | 3000 | C:12, B:18 | 20 |
| Swingfire | 2 | 4000 | C:12, B:12 | 100C |
| Tank Breaker | 2 | 2000 | C:6, B:4 | 90C |
| TOW II & II-C | 2 | 3500 | C:12, B:12 | 160C |
| Hong Jian-8 | 2 | 3000 | C:10, B:10 | 155C |

Hand Grenades

| Туре | Damage | Pen |
|------------------|-----------|-----|
| Antitank | C:3, B:4 | 180 |
| Chemical | C:1, B:12 | Nil |
| Concussion | C:5 | Níl |
| Fragmentation | C:3, B:12 | Nil |
| White Phosphorus | C:1, B:12 | Nil |

Rifle Grenades

| Туре | Rng | IFR | Damage | Pen |
|----------|------|------|-----------|-----|
| BTU APER | S 20 | 400 | C:3, B:12 | Nil |
| BTU HEAT | 20 | 400 | C:7, B:12 | 30C |
| Chemical | 15 | 200 | C:1,B:12 | Nil |
| M31 HEAT | 15 | 200 | C:7, B:12 | 30C |
| RAW HE | 100 | 2000 | C:10,B:28 | 10 |
| RAW HEAT | | 2000 | C:8, B:20 | 75C |
| US APERS | | 400 | C:3, B:12 | Nil |
| US HE | 20 | 400 | C:2, B:9 | Nil |
| US HEAT | 20 | 400 | C:7, B:12 | 300 |

ICM Attack Data

| Weapon | Close | Adj. | Conc | Burst | Pen |
|------------|-------|------|--------|----------|-----------|
| D-74 | 1-3 | 2 | 3 | 12 | Nil |
| M198 | 1-4 | 3 | 3 | 12 | 4C |
| M-1976 | 1-4 | 3 | 3 | 12 | Nil |
| TR D-20 | 1-4 | 3 | 3 | 12 12 | 4C Nii |
| D-30 | 1-4 | 2 | 3 3 | 12 | Nil |
| FH-70 | 1-4 | 3 | 3 | 12 | 4C |
| M-68 | 1-4 | 3 | 3 | 12 | 4C |
| M30 | 1-2 | 2 | 3 | 12 | 40 |

Special Mortars

| Weapon | ROF | Magt | Rng | Ammo | Damage | Pen |
|---|----------|------|-----|------|------------|-----|
| an printing and a printing that is a set of the set of | | | | | ₩₽₩₩₩₩₩₩₩₩ | |
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| Grenade Launchers Type ROF | Mag | Rng | IFR | | Rnd | Damage | Pen |
|-------------------------------------|-------------|---------------------|---------------------------------|--------------------|----------------------------------|--|---------------------------------------|
| AGS-17 5 BG-1 1 | 30D 1i | 1 50 100 | 1700 300 | ן ו | IE IE IEDP | C:2, B:12 C:3, B:12 C:3, B:12 | Nil Nil 4C |
| | | 137 | 400 | 1 | | C:1, B:4 B:100 C3, B:12 | Nil Nil |
| 1944) 1944: Statistica († 1945) | | | | | | C:3, 5:12 C:1, 5:4 5:100 | |
| M79 1 | 11 | 100 | 400 | ł | HE HEDP CHEM | C:3, B:12 C:3, B:12 C:1, B:4 | Nil 4C Nil |
| M209 | . | 110 | 408 | | LLŪM TE TEDE | B:100 C:3, B:12 C:3, B:12 | |
| Mk-19 5 | 50B | 200 | 3000 | | Shem LLUM IVHE | 0:1, 8:4 8:100 C:3, 8:12 | NI Ni |
| MK-19 5 | | 100 | 400 | | WHEDP Edp | C:3, B:12 C:3, B:12 C:3, B:12 C:3, B:12 | 40 |
| | | 100 | 400 | | | C:3, B:12 | NI NI |
| TOS 1 | ## | E Martin | ात के कि | 1 | HEDP CHEM ILLUM | C:3, B:12 C:1, B:4 B:100 | 4C Nil Nil |
| Large Caliber Guns (Antia Weapon | | o ns) laq | Rng | Ammo | Damage | | Pen |
| Artemis | 10 5 | 00B | 875 875 | ARJ HE APT | TE CI | | 4/2/0/2 6C 5/1/2 |
| Bofors L60 Bofors L70 | 5 2 5 2 | • • | 1200 | HET APT | 16 C:1, B:2 | | -6C 5/1/-2 -6C |
| Breda L70 | - | 44 | 1200 | HET APT HET | 16 C:1, B:2 | | 5/1/–2 –6C |
| Breda Sentinel Breda Twin L70 | | 00B 80D | 750 750 200 | API HE API | 14 | | 4/2/0/2 6C 4/2/0/2 |
| Giat 53T4 Giat 76T2 | | 00B 40B | 450 450 450 | API HE API | 10 | | 3/2/5 8C 3/2/5 |
| M-53 Twin | | 00B | 450 750 750 | HE API HE | C:1, B:2 | | -8C 4/2/0/-2 -6C |
| M-1939 M-53/1 | | 008 | 1200 750 | APT HET API | 16 C:1, B:2 | | 5/1/–2 –6C 4/2/0/–2 |
| M55 20/3 | 30 1 | 80D | 750 450 450 | HE API HE | 10 C:1, B:2 | | 6C 3/2/5 8C |
| M55 20/2 M55 Quad | | 000B 40B | 450 450 150 | API HE 7 BMG | 60 60, 82 8 | | 3/2/5 8C 2-2-3 |
| M75.20/1 | - 10 6 | 00 | 450 450 | SLAP ARI MS | 8 C.1, 8:2 | | 1-1-2 3/2/5 8C |
| M167 Cleritson Dis | | 000B | 450 450 250 | API HE | 10 C:1, B:2 10 | | 3/–2/–5 –8C – 2/-4/-5 |
| GAI-CO1 | 5 7 | '5B | 250 250 450 | API | 6:1, B:2 12 10 | | -8C 3/-2/-4 3/-2/-5 |
| GAI-CO4 | | 508 | 450 450 450 | HE API HE | C:1, B:2 10 C:1, B:2 | | 8C 3/2/5 8C |
| GAI-D01 Oerlikon Diana | | 240B | 450 450 250 | API HE API | 10 C:1, B:2 10 | | 3/2/5 8C 2/4/6 |
| GBI-A01 25mm | | 210B | 250 250 250 | HE API HE | C:1, B:2 10 C:1, B:2 | | 8C 2/4/6 8C |
| Oerikon Twin Phelometal Twin | | 120 3008 | 500 500 450 | API API | 12 02, B3 10 | | - 20 - 20 31-21-5 |
| E.FRÈ PUÈRE I E L'HETTERTE I AVELEE | <u>ev</u> i | e na he kat | 450 | HE | C:1, B:2 | 2 | –8C |

| Weapon TCM | <i>ROF</i> 20 | <i>Мад</i> 120В | <i>Rng</i> 450 | Ammo API | Damage 10 | Pen 3/2/5 |
|---|------------------------|-----------------------------|-------------------|---------------------------|-------------------------------------|--------------------------------|
| Туре 74 | 20 10 | 1206 50D | 450 1200 | HE APT | C:1, B:2 16 | 8C 5/1/2 |
| Type 85 | 10 | 663 | 250 250 | HET APT | C:1, B:2 10 C:1, 92 | -6C - <u>2'-4'-6</u> -80 |
| ZPU-1 | 5 10 | 1200B 2400B | 250 150 150 | HEAP-T 14.5mmB | C:1.82 12 | 2-2-3 |
| ZPU-2 ZPU-4 ZU-23-2 | 20 10 | 4800B 100B | 150 250 | 14.5mmB 14.5mmB API | 12 10 | 2-2-3 2-2-3 -2/-4/-6 |
| ZU-23-4 | 20 | 100B | 250 250 250 | HE API HE | C:1, B:2 10 C:1, B:2 | 8C 2/4/6 8C |
| AA Missiles | | _ | 200 | | - | |
| Missile FOG-M (AA) ADATS (AA) | C. and an and a second | <u>Rng</u> 10 kr 6 km | | Guida TV IB | | Acc. Level Easy Average |
| Blowpipe FIM-43 Redeye | | 3.5 k 5 km | m | CMI | | Difficult Difficult |
| FIM-92 Stinger FIM-99 Scorpion HN-5 | | 6 km 7 km 3.6 k | | IR Radar IB | | Average Easy Difficult |
| Javelin Matra Mistral | | 4 km 6 km | | Rad IR | ar | Average Average |
| MBB-7 Venusfliegen RBS-70/RBS-90 SA-7 Grail | ntalle | 7 km 5 km 3.6 k | | Radar CMI | 0 | Easy Average Difficult |
| SA-14 Gremlin SA-16 | | 8 km 8 km | | IR IR | | Average Average |
| SA-27 Grappler Starstreak Towed Rapier | | ≝ 5 km 7 km 3 km | | Radar CM CM | D | Easy Easy Average |
| Recoilless Rifles | ROF | Rld | Rng | Round | Domogo | Pen |
| Туре В-10 | HOF | 2 | 600 | HEAT | Damage C:4, B:4 C:4, B:20 | 45C 1C |
| B-11 | 1 | 2 | 800 | HEAT HE | C:6, B:12 C:6, B:16 | 75C 4C |
| Folgore M3 Carl Gustav L6 Wombat | 1 | 2 | 100 150 450 | HEAT HEAT HE-P | C:4, B:4 C:4, B:4 C:10, B:20 | 70C 70C 100C |
| M-59A | 1 | 2 | 600 | HEAT HE | C:4, B:4 C:4, B:20 | 45C 1C 55C |
| MISA | | | | HEAT HE WP | C:6, 8:16 C:6, 8:24 C:6, 8:24 | 20 |
| M20 M27A1 | 1 | 2 | 300 200 | HEAT HEPT HEAT | C:4, B:16 C:4, B:4 | -1C 20C 80C |
| M40A1 | 1 | 2 | 300 | HEPT HEAT | C:6, B:12 C:6, B:8 C:6, B:12 | 400 80C |
| M67 | | 1 | 100 | HEPT | C:6, B:8 C:6, B:12 C:4, B:16 | 40C 700 |
| SPG-9 | 1 | 2 | 200 | APERS HEAT | C:4, B 24 C:6, B:16 | 4C 4C 75C |
| Type 36 | . | 2 | | HE HEAT | C:6, B:24 C:6, B:16 C:6, B:24 | 4C 55C 2C |
| Type 56 | 1 | 2 | 300 | HE WP HEAT | C:6, B:24 C:4, B:16 | –1C |
| Туре 65 | | 2 | 600 | HEAT HE | C:4, B:4 C:4, B:20 | 45C 1C |
| Flame Projectors <i>Type</i> | ROF | Rld | Rng | Round | Damage | Pen |
| HAFLA Flamethrowers | 1 | 199936 77 928398 | 10 | ICEN | C:1, B:12 | Fragments |
| Weapon | ROF | Dam | Pen | Blk Ma | | Brst Rng |
| LPO-50 M9A2 TPO-50 | SA SA SA | • • | Nii Nii Nii | 4 5 4 5 4 15 | 4 4 4 | - 5 - 5 |

TPO-50SANil4154--5*Damage by burning gasoline is covered on page 198 of Twilight: 2000.

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|---|--------|--|--------|
| NPC#: Experience: Attributes: Skills: Initiative: Weapon: Magazines: □□□□□□ Special: | Wounds | NPC#: Experience: Attributes: Skills: Initiative: Weapon: Magazines: Special: | Wounds |

Referee's Screen

Twilight: 2000/Merc: 2000 Ref's Screen

The **Twilight: 2000 Ref's Screen** is fully usable with **Twilight: 2000, Merc: 2000**, and the other products in the **Twilight: 2000** system. The screen itself contains the charts a referee needs most often in a conveniently arranged, stand up screen, to conceal the referee's secrets from the players.

The **Twilight: 2000 Ref's Screen** comes wrapped around a 16-page booklet containing new D20 game mechanics, consolidated small arms and heavy weapons listings (From both **Small Arms of the World** and **Heavy Weapons Handbook**), rules extensions to character generation, combat (including a system for skill-based fully automatic fire), still more charts (in a 4-page pull-out section), and optional rules including (among other things) the first treatment of enhanced damage rounds (such as hollow points and mercury loads) in the **Twilight: 2000** system.

The new D20 game mechanics expand the range of possible task results and increase the speed, simplicity and flexibility of the game system, at the same time bringing a greater sense of realism and enjoyment.

No referee can afford to be without this product.

Design: Loren K. Wiseman D20 System Design: Lester W. Smith



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