INFANTRY FIRE TABLE 10.3


FIREPOWER FACTOR MODIFIERS:
POINT BLANK FIRE: into adjacent hex
LONG RANGE FIRE: up to double normal range MOVING FIRER: moved \& fired in same player turn AREA FIRE:
target is concealed or hidden.

2X Infantry fire from boat (128.7). /2X Infantry fire from marsh (75.4) $1 / 2 \mathrm{X}$ HE fire into marsh (75.5)
$1 / 2 \mathrm{X}$ Guarding units (89.62).. Mounted firer (92.6)

1/2X Charging cavalry (92.87). $1 / 2 \mathrm{X} \quad$ HE fire vs fording infantry (126.58) $1 / 2 \mathrm{X} \quad$ Captured Support Weapons (90.13) $\begin{array}{ll}1 / 2 \mathrm{X} & \text { Fording infantry (126.57) } \\ 1 / 2 \mathrm{X} & \text { AFV }\end{array}$

SEQUENCE OF PLAY 4.0
I. Rally Phase
2. Prep Fire Phase
3. Movement Phase
4. Defensive Fire Phase
5. Advancing Fire Phase
6. Rout Phase
7. Advance Phase
8. Close Combat Phase

Dual Player Participation Phase

| COUNTER BATTERY FIRE TABLE |  |
| :---: | :---: |
| 2 | Destroyed |
| $3-5$ | Disrupted |
| $6-12$ | No Effect |
| -1 | DRM for continuous shelling/turn |

SEWER MOVEMENT

One die . . . 1-4 Successful
5-6 Lost

## CLOSE COMBAT TABLE 20.3

| Odds Ratio | $\mathbf{1 - 7}+$ | $\mathbf{1 - 6}$ | $\mathbf{1 - 4}$ | $\mathbf{1 - 2}$ | $\mathbf{1 - 1}$ | $\mathbf{3 - 2}$ | $\mathbf{2 - 1}$ | $\mathbf{3 - 1}$ | $\mathbf{4 - 1}$ | $\mathbf{6 - 1}$ | $\mathbf{8 - 1}$ | $\mathbf{9 + - 1}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Kill Number | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 |

CLOSE COMBAT MODIFIERS:

| Capture attemp | +1 | Vs |
| :---: | :---: | :---: |
| Vs. mounted cavalry (92.7) | 1 | By landing paratroops, ski units (114.8) . . . . . . +2 |
| Gurkhas (104.233) vs. Italians | 2X(3X) | Advanced during heavy winds or rain (111.45) . . -1 |
| Vs. Counter Exhausted, CE (73.5) |  | Advanced during mud (111.71) |

SUPPORT WEAPONS CHART 5.7
PORTAGE COSTS
OPERATION CAPABILITIES


| 55.6 PERSONNEL MINES | s VEHICLES DRMS 136.77 $\triangle$ |
| :---: | :---: |
| Unarmored Vehicle . . . . . . - 3 | Armored Car . . . . . . . . . . - 2 |
| Halftrack............... - 1 | Other types ............. 0 |

[^0]
## STACKING 6.1

Infantry
Weapons ...... 4 units (3 squads maximum)
Vehicles .......... 1 (unless immobilized while traversing) Wrecks........... Unlimited On AFV* ..... 2 Infantry (1 squad maximum), 5 PP On a Truck .......Per vehicle capacity Under an AFV*... 3 Infantry (2 squad maximum), 5 PP Horses

Motorcycles Unlimited if unmounted; otherwise counts as infantry squad (92.2)

Otherwise unlimited (123.3) Level Buildings, Sewer Moves.
*Not allowed on armored cars, scout cars, bren carriers, or tankettes. Allies may not ride any AFV prior to 1942.
*In addition to passenger capacity inside or on any vehicle.

## INFANTRY MOVEMENT COSTS CHART 5.5



## TERRAIN EFFECTS MODIFIERS 11.1

open ground: moving (11.3) . . . . . . . . . . . . . . . . . . . (non-moving: 0) -2 wheatfield, orchard: moving or non-moving LOS crosses AFV counter at moving infantry in different hex (32.7)
woods, shellhole
behind hedge hexside (11.2)
beneath AFV counter
wooden building.
behind stonewall hexside (11.2)
stone building
moving double time (73.5) in woods or building.
bore-sighted target hex (78.4)
higher elevation (91.1), not due to upper level bldgs
horses (92.7), pulkkas, wagons (108.243).
inside boats (128.73)
mounted on bicycles (132.7) or motorcycles (123.63)
fog (111.23), camouflage suits in snow (111.81)

## Tournament Scenario 2

## PAVLOV'S HOUSE



STALINGRAD, October 20, 1942: At the end of September, units of Rodimt sev's 13th Guards were ordered to seize buildings on Lenin Square and form strongpoints. A damaged apartment building was attacked and occupied by Sgt. Jacob Pavlov and his men, who formed a defensive position with some meager reinforcements. Since it sat astride the German line of advance to the Volga only 250 meters away, his strongpoint came under frequent attack. On 20 October, as part of the general German effort to complete their seizure of the city, one of the strongest attacks to date was launched against Pavlov's house.

## Board Configuration



## VICTORY CONDITIONS

The player with the most unbroken full squads (not crews) in any hex of building 127 at the conclusion of play wins. Should both players have an equal number of unbroken full squads in the building, it is considered a Russian victory.

## TURN RECORD CHART

| $\star$ Russian sets up first | $1^{+1}$ | 2 | 3 | 4 | 5 | 6 | 7 | END |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| - German moves first |  |  |  |  |  |  |  |  |



6th Army Assault Group set up any whole hex north of Hex Row Q, inclusive:


9
4
Enter on turn 1 anywhere along west edge, north of Hex Row $Q$, inclusive:


## SPECIAL RULES

T2.1 All hexes comprising building 1 X 4 are considered clear terrain. This is the Lenin Square.
T2.2 Hex 1 X 7 is considered clear terrain.
T2.3 Hex $1 \mathrm{Z6}$ has been rubbled; place a rubble counter in this hex before play commences.
T2.4 Hex 1AA7 is a third-level building hex (125.).
T2.5 All Russian units are fanatic (26.) regardless of location.
T2.6 The Russian ATG and its attendant crew may be set up using Hidden Initial Placement (42.).
T2.7 Prior to initial placement, the German player must roll a 200 mm
artillery attack against each hex of building $1 U 2$ and of building 1Q4. Place rubble counters where appropriate but do not place fire markers. T2.8 Neither side may deliberately set fires.
AFTERMATH: As the German assault group approached the building, Pavlov's men opened fire on the infantry with MGs. When the panzers moved forward to silence the threat, the Soviet AT gun was able to destroy or drive all of them off. Without armor support, the infantry was unable to make any headway. Failure to properly coordinate air and artillery support with such local attacks led to repeated costly failures. This allowed many strongpoints, such as the apartment building that eventually became known as "Pavlov's house", to hold out until the siege was lifted.

# SOLDIERS OF DESTRUCTION <br> Tournament Scenario 4 



## VICTORY CONDITIONS

The Russian player must exit eight squads off the south edge of the mapboard. AFVs with functioning main armament are the equivalent of two squads. The German player wins by avoiding the Russian victory conditions.

RADZYMIN POLAND, October 10, 1944: The men of the SS Totenkopf Division had stalled the advance of the Fifth Guards Tank Army in late September. Then, silence. No fighting had occurred for the past three weeks. It seemed like a dream. Time to sleep; time to write; time to mend clothing; time to listen to the birds sing. Replacernents arrived; weapons were stripped and cleaned. It was too good, too unreal. A feeling of unease pervaded the encampment. There was almost a sigh of relief as the dull thunder of the Russian advance began again.

Board Configuration



## TURN RECORD CHART

| Commentup mim | 1 | 2 | 3 |  | 4 | 5 | 6 | 7 | 8 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |



## SPECIAL RULES

T4.1 German AFV crews are SS; all appropriate rules apply.
T4.2 Battlefield Integrity (93.) is not in effect.

AFTERMATH: The three week lull around Warsaw ended abruptly with the fury of the renewed Russian offensive. By sheer weight of numbers, the Fifth Guards Tank Army pressed the SS units back 30 kilometers northwest to the conjunction of the Vistula and the Bug. There, the SS Totenkopfdivision held until the Soviets had exhausted themselves, late in October 1944. Afterwards, another long period of quiet fell as both battered combatants strove to recoup the strength that had once been theirs for the coming effort.

## Tournament Scenario 1



## VICTORY CONDITIONS

The Russian player must exit three tanks with functioning main armament off the west edge of the mapboard. The German player wins by avoiding the Russian victory conditions.

RIVER DAUGAVA, June 25, 1941: When Army Group North moved toward the Daugava River, the Russian command responded by detailing the 111 Armored Corps to meet and destroy Manstein's units. On June 24th, the Soviet armored force made contact with the 6th Panzer Division, the spearhead of the XLI Panzer Corps. Over a hundred of the Soviet tanks were the super-heavy K V models. The size and power of these stunned the panzer crews and baffled the AT gunners: neither seemed to possess a gun which could penetrate the armor of their opponents. The German advance was halted and the 6th Panzer cut off. The following day, the 1st Panzer was ordered to relieve and reinforce the 6th, while the Soviet unit moved to continue its advance. These two efforts immediately collided.

Board Configuration

TURN RECORD CHART



## SPECIAL RULES

T1.1 There is no road movement bonus.
T1.2 All German infantry and weapons must start and/or enter play loaded in or on vehicles.

T1.3 Units may not utilize Bore Sighting (78.).
T1.4 Battlefield Integrity (93.) is not in effect.

AFTERMATH: The Soviet heavy tanks outclassed the German defense and simply drove through the German units towards their objectives. The German armor commanders responded to this with careful maneuver and precision fire, turning their tanks around to follow the Russian advance while the infantry attempted to close assault the Russian behemoths. These tactics eliminated a few of the Russian vehicles, but the rest continued their steady advance until they ran into German AA and artillery positions in the rear. Unlike the AT and tank guns, these weapons had a fair chance of penetrating the thick armor of the Russian tanks. The Soviet advance ground to a halt. A rapid German counterattack threw the confused Russians back about two miles and relieved the crisis.

## Tournament Scenario 3 LAND LEVIATHANS



## VICTORY CONDITIONS

The Russian player must exit four AFVs (any type) with functioning main armament west off any road hex. The German player wins by avoiding the Russian victory conditions.

LIPKI, July 3, 1941: Under pressure from Stalin to hold Smolensk, Yeremenko was desperate to halt the German offensive. On 1 July, he committed his sole armored reserve: the 1st Moscow Motorized Rifle Division under MajorGeneral I.G. Kreyzer. It was a crack unit, the pride of STAVKA. Equipped with the new T-34 and KVII tanks, the division moved off to meet and defeat the 18th Panzer Division, the spearhead of Guderian's 2nd Panzer Gruppe. On 3 July at Lipki, six miles east of Borisov, contact was made.

Board Configuration


## TURN RECORD CHART

| - German sets up first |  | $2^{+5}$ | 3 | 4 | 5 | 6 | 7 | END |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\star$ Russian moves first |  |  |  |  |  |  |  |  |



## SPECIAL RULES

T3.1 To reflect the effect of the unexpected appearance of the new Soviet armor types, all rules for pre-1942 infantry versus AFVs (105.) are in effect regardless of the presence of functioning antitank weaponry in the hex.

## T3.2 Battlefield Integrity (93.) is not in effect.

T3.3 All buildings are of wooden construction.
T3.4 All rules for lack of wireless and one-man turrets are in effect.
T3.5 AFVs may not deliberately enter any multi-story building. Bypass in such hexes is allowed. Should an AFV crash into a multi-story as an effect of shock (131.), the building hex is rubbled but the AFV is considered destroyed.

T3.6 All third-level terrain is considered normal second-level hills.

AFTERMATH: A number of light Russian AFVs, supported by a single KVII and a single T-34, advanced on the lead elements of the 21st Panzer Regiment. Stunned by the appearance of the two armored monsters not encountered before on the Army Group Centre front, the German panzerjaegers scattered. A handful of German tanks were all that stood in the path of the Soviet advance. The T26S and BT5 tanks were routed by the PzKw IIIs. The German 37 mm shells, however, were unable to affect the KVII or T-34. Two panzers were quickly destroyed. At that point three PzKw IVs arrived to engage the KVII, while the remaining PzKw IIIs concentrated on the T-34's vulnerable tracks. Soon both Russian heavy tanks were out of action, the KVII bogged on soft ground and the T-34 with its treads shot away. Without the threat of the KVII or T-34, the panzerjaegers rallied and were able to hold their position. This incident reveals the cardinal $\sin$ of the Russian command: employment of their superior T-34 and KV types not in formation, but individually among light and medium tanks, or as support for the infantry. It was a mistake Soviet Russia was to pay dearly for.

Scenario 304

TURN RECORD CHART


## RIPOSTE




## SPECIAL RULES

304.1 US has one 80 mm mortar OBA module.
304.2 River is deep and a strong current flows from west to east.
304.3 All wheatfields are treated as Brush hexes (154).
304.4 The US ATG may set up hidden even if, after the German setup is revealed, it would have been in German LOS.
AFTERMATH: The Germans were able to throw the lead American units out of the farmhouse they had just occupied. However, aided by artillery and with bazooka fire keeping the German tanks at a distance, the GIs were able to retake that farmhouse. Using this as a jumping-off point, the division snaked forward.
umo Afur iy+u: illers nocage, france. arter the Consolidation of the Beachheads the British had begi their breakouts. The first of what proved to be mar attacks was Operation Perch, the outflanking of the Panzer Lehr around the town of Villers Bocage. If successful, an axis would be formed from the area of Balleroy and La Belle Epine southeast to this town. Perhaps the most famous tank duel in the West was taking above Villers Bocage on Hill 112 where the famous Desert Rats of Africa fame pushed on from this soon to be famous town. What is not well knowr was the battle for the town itself. As Major Mittman was singlehandediy disposing of the lead regiment, the other Tiger Tanks from hls Battalion, soor to be alded by elements of the 2nd (Vienna) Panzer Division struok tine town.

Board
Configuration

## VICTORY CONDITIONS



Germane win by cleariag and having uncontested control 7 out of 9 Multilevel bulldings on Board One at Game end OR Demorale the British player Two levels.
British win by avoiding these victory conditions.
Control of the buildings is determined by having
been the last player to have entered these buildings.

## TURN RECORD CHART



ELEMENTS: 4th County of London Yeomanry \& 1318 t Queens Brigade of 7 th Armoured Division set up first on any hex Boards 1 and/or 6 .


Reinforcements enter Turn two any North Edge Board 1.


Turn 6: enter any road hex Board 1.


As per special rule


## SPECIAL RULES

28.1. Beginning turn 6 the British player rolls one dice. A roll of one or tro brings in Both Pirefly's, three to flve will bring in one Sherwan, a roll of six means that NO Firefly will enter into the game. 28.2. Prior to play the German player draws one of four chits to determine the entry hexes for his reinforcements to come in. Chit 1:6A6-A5. Chit 2:6 GG6. Chit3:I GG5.GG6. Chit 4: Any South hex Board 6. 28.3 British receive one module of 88 mm off board artillery support.
28.4 Battlefield Integrity (93) is in offect.

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APTERMATH: 1 s the Tigers rolled into the town they had last their weapon range superiority be fighting other Tanks at polnt blank range. Stalking the Tiger with PIATS the British had succeeded in repulsing the attack now also entered by elements of General Luetwitz's 2nd Panzer. Tank fired at Tank around the corners of buildings as the Germans were gradually repulsed, despite efforts of the local Fire Brigade who insisted on trying to distingulsh the fires from the buraing tanks. Threatened now by the enemy on tinree sides the 7 th armoured, now smarting after staggering losses to the Tikers. witharew fram tam

| TO HIT TABLE 33.3 |  |  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Target Type/Range | 1-6 |  | 7-12 |  | 13-24 |  | 25-39 |  | 40-59 |  | $60+$ |  |
| INF in building, shellholes, entrenched | 8 | 8 | 7 | 6 | 6 | 5 | 5 | 3 | 3 | 0 | 0 | $-2$ |
| INF in woods | 8 | 8 | 6 | 6 | 5 | 4 | 4 | 2 | 2 | -1 | -1 | - |
| S INF in other | 9 | 9 | 8 | 7 |  | 6 | 6 | 3 | 4 | 1 | 1 | -1 |
| Vehicle is hull down | 7 | 6 | 5 | 4 | 4 | 3 | 3 | 1 | 2 | -1 | -2 | - |
| Vehicle is in woods/bldg | 9 | 9 | 8 | 7 | 7 | 6 | 6 | 3 | 4 | 1 | 1 | -2 |
| Vehicle is in other mae |  |  | 9 | 8 | 8 | 7 | 7 | 4 | 5 | 2 | 2 | 0 |
| Gun | 6 | 5 | 5 | 4 | 4 | 3 | 2 | 0 | 0 |  | -2 |  |

## GUN \& AMMO TYPE MODIFICATIONS

| Range/Type | $*$ | L | LL | APDS <br> APCR |
| :---: | :---: | :---: | :---: | :---: |
| $7-12$ hexes | +1 | 0 | 0 | 0 |
| $13-24$ hexes | +2 | -1 | -1 | +1 |
| $25-29$ hexes | +3 | -1 | -2 | +2 |
| $40+$ hexes | +4 | -1 | -2 | +3 |

## HIT DETERMINATION DICE ROLL MODIFIERS 33.31 FIRER MODIFICATIONS

A. Tank firing outside Covered Arc ...........(A: fast turret traverse) +
B. Tank firing during Adv. Fire Phase after pivoting within hex during Movement Phase.
C. Tank firing during Adv. Fire Phase after moving to a new hex or motion vehicle defensive fire (135.41); (G: gyrostabilizer).
D. SP Gun/AT Gun firing during Adv. Fire Phase after pivoting within hex during Movement Phase (French Case B).
E. SP Gun/AT Gun firing during Defensive Fire Phase after pivoting within hex during Defensive Fire Phase (French Case A)
F. Intensive Fire (70.2) .
*G. Deliberate Immobilization (66.2) side/rear target facing
${ }^{*}$ H. Captured Ordnance (90.13)
I. Buttoned Up (64.47)

## TARGET MODIFICATIONS

*J. Target is moving (Defensive Fire or Motion target, 135.3).
${ }^{*}$ K. Target is concealed (rain, snow $6+$ hex range, 111.44 \& .53)
L. Target is in adjacent hex
M. Target is in bore-sighted hex (78.4)
N. Target is acquired (69.1)
........................................
O. Moving target using 1 or less MPs or MFs in firer's LOS .
*P. Moving target using 3 or less MPs in firer's LOS
per vehicular target counter *Applicable to shaped-charge weapons with separate To Hit Table (PF, PIAT, bazooka, psk): add +2 if hull down or in wooden building; add +1 in woods

AFV KILL TABLE 33.4
20LL

| TARGET | $\dagger$ MMG $\dagger$ HMG | $\begin{gathered} 12.7 \\ 15 \end{gathered}$ | $\begin{gathered} 20 \\ 37^{*} \end{gathered}$ | $\begin{gathered} \text { 20L } \\ 37 \end{gathered}$ | 37L | $\begin{aligned} & \text { 28LL } \\ & \text { 37LL } \end{aligned}$ | $\begin{aligned} & 40 \\ & 47 \end{aligned}$ | $\begin{aligned} & \text { 45L } \\ & \text { 47L } \end{aligned}$ | $\begin{aligned} & 50 \\ & 57 \end{aligned}$ | $\begin{aligned} & 50 \mathrm{~L} \\ & 57 \mathrm{~L} \end{aligned}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFV Front | -2 | -1 | 0 | 1 | 2 | 3 | 3 | 4 | 4 | 5 | 6 |
| AFV Side | -1 | 0 | 1 | 2 | 3 | 3 | 4 | 5 | 6 | 6 | 6 |
| AFV Rear | 0 | 1 | 2 | 3 | 4 | 4 | 5 | 6 | 7 | 7 | 8 |
| Unarmored | NA* | 3 | 7 | 7 | 7 | 7 | 8 | 8 | 9 | 9 | 9 |

$\begin{array}{llll} & & & \\ 75^{*} & \text { 37H } & \text { 95H } \\ 760\end{array}$

40L 45LL 47H $45 \mathrm{~L} \quad 50 \quad 50 \mathrm{~L}$ | 47L | 57 | 57L | 57LL |
| :---: | :---: | :---: | :---: |
| 4 | 4 | 5 | 6 |

| 75* | 37H |  | 95H 76LL |  | 150H | 100H | 128L | 75H |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 76* |  | 77L |  |  |  |  |  |  |
| 88* | 75 | 75L | 88L | 105L | 88LL |  |  | 150* |
| 122* | 76 | 76L | 90L | 152 | 100L | 122L | 150L | 152* |
| 4 | 6 | 7 | 8 | 9 | 11 | 10 | 12 | 7 |
| 6 | 7 | 8 | 9 | 10 | 12 | 12 | 13 | 9 |
| 7 | 8 | 9 | 10 | 11 | 13 | 13 | 14 | 10 |
| 11 | 10 | 10 | 10 | 11 | 11 | 11 | 11 | 11 |
| anti-ta | $k$ rifle |  | (63.9) | gunshie | -4, | uns -5 |  | e 51.4 |

# HE AMMUNITION \& SPECIAL WEAPONS 

| Target | $\mathbf{3 0}+\mathbf{4 0}+\mathbf{5 0}+\mathbf{7 0}+$ |  |  |  | PF |  |  |  |  |  |  | DCMC |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| AFV Front | -1 | 0 | 1 | 3 | 5 | 6 | 7 | 7 | 5 | 4 | - | 7 | 3 |
| AFV Side | 1 | 2 | 3 | 5 | 7 | 8 | 9 | 8 | 7 | 5 | - | 9 | 4 |
| AFV Rear | 2 | 3 | 4 | 7 | 9 | 10 | 11 | 9 | 8 | 7 | 10 | 11 | 5 |
| Unarmored | 9 | 10 | 11 | 12 | 12 | 12 | 12 | 9 | 10 | 9 | 11 | 12 | 11 |

AFV TO KILL MODIFIERS
A. As per individual target armor modifier
B. Height advantage vs close topped armor (77.3)
C. Height advantage vs open topped armor (77.3)
D. Critical Hit (68.2)
AFV Rear -1
$\left.\begin{array}{llllllllll}\text { E. Range Effects on Penetration (65.2) } & \ldots & \ldots & \ldots & \ldots & \ldots\end{array}\right)$ AP ammunition only

| Gun Size/Range | $\mathbf{1}$ | 2 | $\mathbf{3 - 6}$ | $\mathbf{7 - 1 2}$ | $\mathbf{1 3 - 2 4}$ | $\mathbf{2 5 - 3 9}$ | $\mathbf{4 0 - 5 9}$ | $\mathbf{6 0 +}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 40 mm or less | -2 | -1 | 0 | 0 | +1 | +2 | +4 | +6 |
| 45 mm or more | -3 | -2 | -1 | 0 | 0 | +1 | +2 | +3 |


| F. APCR Range Effects on Penetration. |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Gun Size/Range | 1 | 2 | 3-6 | 7-12 | 13-24 | 25-39 | 40-59 | $60+$ |
| 37 mm | -3 | -2 | -1 | 0 | +1 | +3 | +6 | - |
| $45 \mathrm{~mm}-57 \mathrm{~mm}$ | -4 | -3 | -2 | -1 | 0 | +1 | +3 | + 5 |
| $75 \mathrm{~mm}-76 \mathrm{~mm}$ | -5 | -4 | -3 | -2 | -1 | 0 | +2 | +4 |
| $85 \mathrm{~mm}-90 \mathrm{~mm}$ | -6 | -5 | -4 | -3 | -2 | -1 | 0 | +2 |

G. British 57L APDS; use case E and .
H. British 76LL and 77L APDS; use case E and
$\dagger$ Double if functioning enemy AFV

| ctioning enemy AFV | VEHICL |
| :---: | :---: |
| Terrain | Motor Armo |
| through road hexside | 1/2 MP |
| open ground, orchard | 3 MP |
| through hex containing wreck/vehicle $\dagger$ | $2 \mathrm{MP} /$ |
| higher terrain than previously occupied | 4 MP |
| woods* | NA |
| wooden buildings* | NA |
| over walls or hedge hexsides | NA |
| outside of Covered Arc | 2 MP |
| shellhole, entrenchment | 2 MP |
| unload passengers | NA |
| stone buildings, cliff hexsides | NA |
| smoke/fog | 1 MP |
| enter gully | 5 MP |
| leave gully | 9 MP |
| reverse movement (71.1) | $2 \times$ |

EHICLE MOVEMENT COSTS CHART

| Motorcycles \& Armored Cars | Tracked AFV | Truck/Jeep |
| :---: | :---: | :---: |
| 1/2 MP | 1/2 MP | 1/2 MP |
| 3 MP | 1 MP | 4 MP |
| $2 \mathrm{MP} / \mathrm{Vehicle}+\mathrm{COT}(0)$ | $2 \mathrm{MP} /$ Vehicle + COT | $2 \mathrm{MP} / \mathrm{Vehicle}+\mathrm{COT}$ |
| $4 \mathrm{MP}+\mathrm{COT}$ | $4 \mathrm{MP}+\mathrm{COT}$ | $4 \mathrm{MP}+\mathrm{COT}$ |
| NA ( $\dagger$ ) | 6 MP * | NA |
| NA ( $\dagger$ ) | 4 MP* | NA |
| NA ( $\dagger$ ) | $1 \mathrm{MP}+\mathrm{COT}$ | NA |
| $2 \mathrm{MP}+\mathrm{COT}(0)$ | $2 \mathrm{MP}+\mathrm{COT}$ | $4 \mathrm{MP}+\mathrm{COT}$ |
| $2 \mathrm{MP}+\mathrm{COT}$ | COT | $4 \mathrm{MP}+\mathrm{COT}$ |
| NA (1 MF) | 2 MP | 2 MP |
| NA | NA | NA |
| $1 \mathrm{MP}+\mathrm{COT}$ | $1 \mathrm{MP}+\mathrm{COT}$ | $1 \mathrm{MP}+\mathrm{COT}$ |
| $5 \mathrm{MP}+\mathrm{COT}$ | $2 \mathrm{MP}+\mathrm{COT}$ | $8 \mathrm{MP}+\mathrm{COT}$ + unless pushed (123.52) |
| $9 \mathrm{MP}+\mathrm{COT}$ | $4 \mathrm{MP}+\mathrm{COT}$ | $12 \mathrm{MP}+\mathrm{COT}$ *Requires die roll (39.1) |
| $2 \times \operatorname{COT}(\mathrm{NA})$ | $4 \times \mathrm{COT}$ | $4 \times$ COT Haltracks not allowed |


|  |  | $\Delta$ |
| :---: | :--- | :--- |
| One die: | Russians, USA | 6 |
|  | British, German | 5.6 |
|  | All others | $4,5,6$ |


| CLOSE COMBAT AFV KILL NUMBERS 36.2 |
| :---: |
|  |


|  |  | $\Delta$ |
| :--- | :--- | :--- |
| ARTILLERY ACCURACY 46.21 |  |  |
| One die: | Japanese, Russian, Minor <br>  <br>  <br> All others | 1 |
|  | 1,2 |  |

DEFENSIVE FIRE AFV IMMOBILIZATION NUMBERS 36.13 \& MGs VS ARMOR 119.4
Location of Firing Units
MGs vs Pre-' 42 AFVs Dice Roll

| Leader only, any non-open ground |  |
| :--- | :--- |
| Squad in wheatfield, orchard, smoke, wreck | LMG |
| Squad in small building, shellhole, entrenched MMG |  |
| Squad in woods or large building | HMG |

DRMs: AFV using Bypass Movement in same hex as firer

Die Roll Leader Created

| $7+$ | None |
| :---: | :---: |
| 6 | $6+1$ |
| 4,5 | $7-0$ |
| 2,3 | 80 |
| 1 or less | $8-1$ |
|  |  |

## LEADER CREATION DRMs

1 American, German, British per odds ratio less than 1-1 in Close Combat
1 base unit has morale level of 8 or higher
+1 base unit has morale level of 6 or less
+1 per odds ratio greater than $1-1$ in Close Combat
+1 base unit is broken
+1 Russian, French, Italian, Minor


[^0]:    46.54 ARTILLERY BARRAGE Vs VEHICLES DRMS 63.39

    | Non-armored vehicle...... - 3 | Tank (CE $\ldots \ldots \ldots \ldots 0$ ) +1 |
    | :---: | :---: |
    | Open Top AFV .......... 1 | SP Gun (CE . . . . . . + 1) +2 |

    Open Top AFV
    $-1 \quad$ SP Gun (CE
    $+1)+2$

