# **1** ► Combat Results Table (CRT)

#### **Odds Column Shifts**

#### **DEFENDER**

1L Relevant Attackers at lower Elevation

1L/2L Improved Position (IP)

1L/2L All attackers across Great/Grand River

2L Brit. Naval Support (Allied only 21.2)

• Inferior Allied Combat Doctrine (21.1).

• White Die Roll Modifier =  $\pm$  PR (9.7).

#### **ATTACKER**

1R Prepared Attack

2R Flanked (9.5)

1R-7R Prep. Bombardment (20.0)

## **Combat Results**

E = 1 CEL reduction for each Force +/- # = post-combat EC DRM

**0**= Retreat 1 hex

**2**= Retreat 2 hexes and suffer a SR

①= Attacker Intense Retreat 1 hex

s = Strength Reduction (9.10)

Die	Rolls	1:4 x < .291	1:3 .292415	1:2 .416624	<b>3:4</b> .625874	1:1 .875-1.24	<b>3:2</b> 1.25–1.74	<b>2:1</b> 1.75-2.49	<b>3:1</b> 2.5-3.49	<b>4:1</b> 3.5–4.99	<b>6:1</b> 5.0-6.99	<b>8:1</b> 7.0 < x	Die R	olls
	1	-/+1	-/+2	-1/+3	-2/+40	-2/E+1 <b>0</b>	-2/E+1 <b>0</b>	-2/E+2 <b>0</b>	-2/E+3 <b>2</b>	-2/E+3 <b>2</b>	-2/E+3 <b>2</b>	-2/E+3 <b>2</b>	1	
1	2,3	+1/ -	-/-	-/+3	-/+3	-1/+3	-1/+4①	-2/E+1①	-2/E+1 <b>0</b>	-2/E+1 <b>0</b>	-2/E+2 <b>0</b>	-2/E+3 <b>2</b>	2,3	1
-1	4,5	+3s/-1	+2/-1	+1/ -	+1/+1	-/+2	-/+3	-/+3	-/+3	-1/+4①	-1/+40	-2/E+1 <b>0</b>	4,5	-1
	6	+3s/-1	+3s/-1	+2/-1	+2/-	+1/ -	+1/+1	-/+3	-/+3	-/+3	-1/+3①	-1/+50	6	
	1	+1/ -	-/+2	-/+3	-1/+4①	-2/E+1 <b>0</b>	-2/E+1 <b>0</b>	-2/E+2 <b>2</b>	-2/E+2 <b>0</b>	-2/E+2 <b>0</b>	-2/E+3 <b>2</b>	-2/E+3 <b>2</b>	1	
0	2,3	+1/ -	-/-	-/+1	-/+3	-/+3①	-/+3	-1/+4①	-2/+4①	-2/+4s <b>0</b>	-2/E+1 <b>2</b>	-2/E+3 <b>2</b>	2,3	0
U	4,5	+3/-1	+3/-1	+3/-	+2/+1	+1/+2	-/+3	-/+3	-/+3	-/+3	-1/+40	-2/E+1 <b>0</b>	4,5	U
	6	+4s/-2	+3s/-1	+2s/-1	+2s/ -	+3/-	+3/-	+1/+2	+1/+2	+1/+2	-/+3①	-1/+40	6	
	1	+1/+1	-/+1	-/+3①	-/+3①	-/+40	-/+40	-1/+40	-2/E+2 <b>2</b>	-2/E+2 <b>2</b>	-2/E+2 <b>0</b>	-2/E+3 <b>2</b>	1	
1	2,3	+3/-1	+2/-	+2/+1	+1/+2	+1/+3	-/+3①	-/+3 <b>0</b>	-/+40	-1/+40	-1/E+1 <b>2</b>	-2/E+2 <b>2</b>	2,3	1
1	4,5	+3s/-2	+3/-2	+3/-	+3/+1	+3/+1	+2/+2	+2/+3①	+1/+3①	-/+3①	-1/+40	-2/E+1 <b>2</b>	4,5	1
	6	+5s/-2	+4s/-2	+48/-1	+3/-1	+3/-1	+3/-1	+3/-	+2/-	+1/+3	-/+3①	-/+40	6	
	1	+1/-1	-/+1①	-/+20	-/+1 <b>0</b>	-/+30	-/+4①	-1/+40	-1/E+1 <b>2</b>	-1/E+1 <b>2</b>	-1/E+2 <b>2</b>	-2/E+3 <b>2</b>	1	
2	2,3	+3/-1	+3/-	+3/+1	+3/+2	+3/+3①	+1/+30	+1/+3①	-/+3①	-/+40	-1/E+1 <b>0</b>	-2/E+2 <b>2</b>	2,3	١
2	4,5	+4/-2	+3/+2	+3/-	+3/-	+3/-	+3/+1	+2/+2	+1/+3①	+1/+3①	-/+40	-1/+40	4,5	2
	6	5s/-2	+4s/-2	+4s/-2	+3s/-2	+3/-2	+3/-1	+3/-	+3/+1	+2/+2	+1/+3	-/+40	6	
	1	+1/-1	+1/ -	+1/+2①	-/+3 <b>0</b>	-/+3 <b>0</b>	-/+3 <b>0</b>	-/+40	-/+5 <b>0</b>	-1/E+1 <b>2</b>	-/E+2 <b>@</b>	-2/E+3 <b>2</b>	1	
3	2,3	+3/-1	+3/-	+3/-	+3/+1①	+2/+3①	+1/+3①	-/+3①	-/+3 <b>0</b>	-/+40	-1/+50	-1/E+2 <b>2</b>	2,3	3
3	4,5	+4s/-2	+3s/-2	+3/-1	+3/-	+3/+1s	+3/+2s	+2s/+2s	+2/+3	+1/+3	-/+3①	-1/+40	4,5	3
	6	+5s/-2	+5s/-2	+5s/-2	+4s/-2	+4/-1	+3/-	+3/-	+3/-	+3/+1	-/+3①	-/+40	6	6
	1	+1/-1	+1/ -	+1/+2①	-/+3①	+1/+20	-/+30	-/+40	-/+40	-/+5 <b>@</b>	-/E+2 <b>0</b>	-2/E+3 <b>2</b>	1	
4	2,3	+3/-1	+3/ -	+3/-	+3s/+1s	+3/+3①	+2/+3①	+1/+3	-/+3①	-/+40	-1/+50	-1/E+2 <b>2</b>	2,3	4
4	4,5	+4s/-2	+4s/-2	+3s/-1	+3/-1	+3s/-1	+3s/ -	+3/-	+2s/+2s	+1/+2①	-/+3①	-1/+40	4,5	4
	6	+5s/-2	+5s/-2	+5s/-2	+5s/-2	+4s/-2	+3/+2	+3/-1	+3/-	+3/-	+1/+2①	-/+40	6	
	1	+1/-1	+1/ -	+1/+2	-/+2①	-/+3①	-/+30	-/+40	-/+40	-1/+5 <b>2</b>	-1/E+2 <b>2</b>	-1/E+2 <b>2</b>	1	
5	2,3	+3/-1	+3/ -	+3/ -	+3/+1	+3/+1	+3/+3①	+1/+3①	+1/+30	-/+3①	-1/+4s <b>0</b>	-1/E+2 <b>2</b>	2,3	5
3	4,5	+4s/-2	+4/-2	+3/-2	+3/-1	+3/-1	+3/-1	+3/-	+2/+2	+2/+2①	-/+30	-/+40	4,5	)
	6	+6s/-3	+5s/-2	+5s/-2	+5s/-2	+4s/-1	+3/-1	+3/-	+3/-	+3/-	+2/-	-/+30	6	
	1	+1/-1	+1/ -	+1/+2	+1/+2①	-/+2①	-/+4①	-/+40	-/+40	-1/+5s <b>0</b>	-1/+5 <b>0</b>	-1/E+2 <b>2</b>	1	
6	2,3	+3/-2	+3/-1	+3/ -	+3/+1	+3/+1	+2/+2	+1/+3①	+1/+3①	-/+3 <b>0</b>	-/+40	-1/+5	2,3	6
U	4,5	+4s/-3	+4s/-2	+3s/-2	+3s/-2	+3/ -	+3/-1	+3/-	+2/-	+2s/+2s	+2s/+2s	-/+3 <b>0</b>	4,5	0
	6	+6s/-3	+5s/-2	+5s/-2	+5s/-2	+5s/-2	+5/-2	+3/-1	+3/-	+3/-	+3/-	-/+3 <b>0</b>	6	
	1	+1/-2	+1/ -	+1/+2	+1/+2①	-/+3①	-/+3①	-/+3 <b>0</b>	-/+3 <b>0</b>	-/+40	-/+5 <b>@</b>	-1/E+2 <b>2</b>	1	
7	2,3	+3/-2	+3/-1	+3/-	+3/-	+3/-	+2/+2	+2/+2①	+1/+3①	-/+3①	-/+30	-1/+40	2,3	7
/	4,5	+4s/-3	+4/-2	+3/-2	+3/-2	+3/-1	+3/-1	+3/-	+2/-	+2/-	-/+3①	-/+30	4,5	
	6	+6s/-3	+5s/-2	+5s/-2	+5s/-1	+5s/-2	+5s/-2	+3/-2	+3/-	+3/-	+2/-	-/+20	6	
	1	+1/-2	+1/-1	+1/+1	+1/+1	-/+2①	-/+3①	-/+3①	-/+3①	-/+30	-/+5s <b>0</b>	-1/E+2 <b>2</b>	1	
8	2,3	+3/-3	+3/-1	+3/ -	+3/-	+3/-	+2/+1	+2/-	+2/+1	-/+2	-/+30	-1/+40	2,3	8
0	4,5	+4s/-3	+4s/-2	+3s/-2	+3/-1	+3/-	+3/-1	+3/-	+3/-	+2/-	-/+3	-/+30	4,5	0
	6	+6s/-3	+5s/-3	+5/-2	+5s/-2	+5s/-2	+5s/-2	+3/-2	+3/-1	+3/-	+2/-	-/+30	6	
		1:4	1:3	1:2	3:4	1:1	3:2	2:1	3:1	4:1	6:1	8:1		

## **1** ► Combat Intensity Matrix

Attacker	Defender	<b>Battle Intensity</b>
Not Intense	Not Intense	Low Intensity
INTENSE	Not Intense	Attacker Intense
Not Intense	INTENSE	Defender Intense
INTENSE	INTENSE	HIGH Intensity

**Low Intensity** = The defender retreats on black retreats results only.

Attacker Intense = The defender retreats on both black and white retreat results. Attacker suffers an SR if the combat result did not include a black retreat result.

**Defender Intense** = The defender reteats on black 2 retreat results only. Defender suffers a SR if the combat result included a black 1 or white 1 retreat result.

**HIGH Intensity** = The defender retreats on black retreat results only. Attacker suffers an SR if the combat result did not include a black retreat result. Defender suffers an SR if the combat result included a black or white retreat result.

# ► SR Small Magnitude Modification [1d6]

Roll once per combat. Number is roll needed to suffer S result.

Size of Enemy's forces	Total CRT & Intensity result			
Size of Eliethy 8 forces	1 SR	2 SRs		
3/4 or 1/2 Divequivalent	3, 4, 5, 6	1 SR automatic		
1/4 Division-equivalent	5, 6	4, 5, 6		

# **2** ► Artillery Table

- AV Modifier: ½ AV if firing up Escarpment.
- Maximum 2 AV when defending in or attacking into Mountainous terrain.

		Opponent's Artillery Value Sum					
Nr. of	≥ 3	0-1	2-6	7-16	17+		
division-	2-23/4	0-1	2-4	5-11	12-22	23+	
equivalents	1-13/4	0	1-2	3-7	8-14	15+	
1	≤ 3/4		0-1	2-4	5-8	9-15	16+
Artillery DRM		-2	-1	0	+1	+2	+3

# 3 ► Post Combat Effectiveness Check [2d6]

Roll separately for each **Stack**. Modifiers are for each individual **Force** within a Satck. A Force passes if the modified roll  $\leq$  its current CEL.

• Dice Roll Modifiers: +/- CRT result

+/- Artillery DRM

+1 Defender Flanked

If Force fails its EC by:	Inflict this result on it		or if it's now Demoralized
1 — 3	-1E	+①	+②
4 — 6	-2E	+①	+②
7+	$-3E +_{S} + ①$	+①	+2

-#E = Reduce Combat Effectiveness Status by #.

 $\bigcirc$   $\bigcirc$  = Retreat 1 or 2 hexes.

s = Strength Reduction.

### **▶ Bombardment Results Table** [1d6]

Die	Caliber Rating vs. Fortress Class								
Roll	21 cm			3	30.5 cm	42 cm			
Kon	С	В	A	C	В	A	C,B	A	
1	1	1	+	1*	1	1	2	2	
2	1	1	•	1	1	1	2	1	
3	1	+	•	1	1	<b>*</b>	1	1	
4	1	•	•	1	*	•	1	1	
5	•	•	•	<b>*</b>	•	•	1	1	
6	•	•	•	•	•	•	1	•	

- No effect.
- 1 = 1 Fortress step loss (2 step losses).
- + = Roll again ... result of 1,2,3 = 1 step loss.
- \* = 1 Fortress step loss if 5+6 sKM is firing.

# Fortress Unit Combat Summary:

Being Attacked Artillery Montbeliard while defending Proficiency w/Combat units: Rating 4 ⊠ 5 = 1 Div.-equivalent for Artillery Table Being Attacked Montbeliard Combat when stacked alone: Effectiveness = 1 Div.-equivalent  $4 \boxtimes 5$ Combat Proficiency for Artillery Table Rating

► Preparatory Bombardment (20.0) [1d6]

(A Fortress cannot choose Intense Combat)

Dice Roll Modifiers: Up Elevation +2 Up Escarpment +1

Die Roll	Nu unit * Units wit	Includes a 30.5cm or 42cm unit		
Kon	4	Add to post- combat EC		
1	6+s+3e	7+s+3e	7+s+3e	+1e
2	5+s+3e	6+s+3e	7+s+3e	+1e
3	4+s+3e	5+s+3e	6+s+3e	+1e
4	3+s+3e	4+s+3e	5+s+3e	+1e
5	3+s+2e	3+s+2e	3+s+3e	+1e
6	2+1e	2+s+2e	2+s+2e	+1e
7	1+1e	1+1e	1+s+1e	•
8+	1+1e	1+1e	1+1e	•

# = # of CRT column shifts to the right (\* Ignore if a Fortress unit is in the defending hex).

s = Strength Reduction.

#e = Post-combat EC DRM for defending Forces.

• = No effect.

# **Terrain Effects Chart (TEC)**

Terrain	MP Cost	Combat
Clear	2	_
Wooded (3.5.3)	2	+2 DS
Moor	3	+2 DS
Foothills/Mtn. Valley	3	+4 DS
Mountain	4	max. 2 AV
Steep Mountain (a)	4	per Force
Elevation Change	_	1L (e)
Pure Hexside Terrain		
Escarpment	_	$^{1}/_{2}AV$
Forest	3	_
Deep Forest	4	_
Wetlands	3	-2 AS
Mountain Ridge (f)(r)(s)	P	P
Rivers		
Minor River	+1	-1 AS
Major River	+2	-2 AS
Great River (f)	+3	-2 AS/1L
Grand River (f)(r)(s)	+3 (b)	-3 AS/2L
Inundated hexside (f)	+3 (b)	P
Roadway Bridges (3.5.4)		
Bridge over River	+1	_
Other		
Improved Position (IP)	<del></del>	1L per level
RR Track for RR Transport	1/10	_
RR Track for Depot move	1	_
City/Town/Location	_	_
Sea hexside	P	P

#### **TEC Notes**

DS = Defender's strength increased per hex.

AS/AV = Attacker's strength and/or AV reduced when attacking across hexside (9.3.2 & 10.1.1a); reduction is per Force.

- (a) Combat Stacking restriction—see 3.1.2a.
- (b) Must begin move adjacent (7.1.5). Repulse across —see 7.4.7.
- (e) If all units are attacking UP Elevation (see also 3.6).
- (f) Affects Flank Attacks—see 9.5.3.
- (r) Retreating across—see 11.1.4.
- (s) Affects Tracing Supply—see 15.3.2.

#### **Special Terrain Features:**

- The **Belgian Pontoon Bridge** spanning hexside 51.16-52.16 is a Roadway Bridge in all respects except that only one Force can cross it per movement phase (24.6).
- Double-River hexsides are treated as if there were only one river.
- The **IJzer River Inundation** does not exist until created—see 21.3.
- The Meuse River at Iges: A Force attacking from hex 46.36 into hex 46.37 is not affected by the river hexside (i.e., it is as if the river did not exist). A Force attacking from hex 46.37 into hex 46.36 is affected by the Major River hexside.
- The Pont de Pontoise (15.33-15.34) is demolished only if a German unit moves adjacent. If demolished, cannot be reconstructed.
- The **Seine River** running through Paris is ignored.

# Terrain Key

Lowland (Clear)

**Elevation Transitions** 

Upland (Clear)

CLEAR TERRAIN:

The terrain types Lowland, Upland, and Highland are all 'Clear.' The only difference is their elevation.

Elevation transitions

Highland (Clear) —see 3.6.1

Foothills/ Mountain Valley

Mountain

MOUNTAINOUS TERRAIN: Foothills/Mtn. Valley, Mountain, and Steep Mtn. hexes are cumulatively termed Mountainous

Terrain.

Steep Mountain

Mountain Ridge hexside

Inundation

Escarpment hexside

**ELEVATION:** 

There are six levels of elevation found on the map:

- Lowland (lowest),
- Upland (lower-middle),
- Highland (middle),
- Foothills/Mtn. Valley (upper-middle),
- Mountains (high),
- Steep Mtns. (highest).

Wetlands hexside

Moor

Wooded hex

WOODED TERRAIN: 'Wooded' is an overlay on-

top of Clear Terrain.

Forest hexside

Deep Forest hexside

FORESTED HEXSIDES:

Forest and Deep Forest hexsides are cumulatively termed Forested hexsides. Elevation and Forested

Hexsides—see 3.6.2

RAILROADS—see 18.1

ROADWAY BRIDGES:

Cross every Major and

Railroads

Double Track Single Track

Narrow Track

RR Structure —see 18.4

Rivers



Grand River Roadway Bridge

Great River

Major River

Minor River

Great River hexside and where a Bridge symbol

> crosses a Grand River. Roadway Bridges and Movement—see 7.1.4

National Border

Improved Position

IMPROVED POSITIONS

-see 14.5

## **Movement Point Summary Chart**

Action	MP Cost
Enter / Exit an EZOC	+2 / +1
Move directly from EZOC to EZOC	+6
- if hex occupied by a friendly Formation or Fortress (7.1.6a)	+4
Enter hex with enemy Fortress unit	+2
Place a Prepared Attack marker <b>↑</b> ¢ (7.3)	= Cost to enter hex. Minimum 4
Attempt Repulse	1
Recover Effectiveness Level (7.5)	9 *
Construct an IP ¢ (14.3)	13 *

## **MP Cost to Entrain/Detrain** (7.7.3)

Size and Type of Unit	MP Cost *
Infantry Division, Cav. Corps, Corps Train, HQ	9
Infantry Brigade, Cavalry Division, Artillery	5
Infantry Regiment, Cav. Brigade or Regiment	3

<sup>\* =</sup> Cannot use Forced March

## **Activity Distances**

Activity Distai	ices
A unit starting this activity:	Must be at least this far from nearest enemy unit:
Recover Combat Effectiveness (7.5)	GTs 1-18: Either 3 hexes ● ● , or 2 hexes ● ● if all intervening hexes are occupied by friendly units in an IP, or adjacent ● if occupying a Level 2 IP. GTs 19-30: Either 3 hexes ● ● , or 2 hexes ● ● if all intervening hexes are occupied by friendly units in an IP, or adjacent ● if occupying any IP.
Recover from Demoralization	5 hexes ●●●●, or if inside Paris or Antwerpen 2 hexes ●● (7.5.2)
Building an IP	Adjacent $\bullet$ , but not further than 4 hexes $\bullet \bullet \bullet \bullet$ (14.3.2)
Begin Entraining - Destination hex	4 hexes ◆ ◆ ◆ ◆ ◆ ★ Fortified Camp—see 7.7.3(2)
Embark/Debark	Adjacent ●/ 2 hexes ●●

# Removing MP Expended Markers (7.8.3)

Remove this marker	When an enemy unit
CEL	Moves adjacent ●
RR (in addition 7.7.5)	Moves adjacent ●
IP	Attacks the hex 1

#### **Stacking Limits Summary**

	<i>_</i>	
Situation	Limit per hex	
End of friendly movement phase	3½ division-equivalents	
Attacking or Defending (3.1.2)	2½ division-equivalents (max.two Asset units, max. one artillery unit)	
Steep Mountain terrain: Attacking or Defending from/into/in		

Division-Equivalents Summary		
1	Infantry Division (XX), Cavalry Corps (XXX) Corps Train	
1/2	Infantry Brigade (X), Cavalry Division (XX)	
1/4	Infantry Regiment (III), Cavalry Brigade (X)	
0	Cavalry Regiment (III), Artillery, HQ, Depot Fort*, Fortress**	

<sup>\*</sup> Counts as ½ Div.-equivalent on the Artillery Table

## **Rail Point cost to Entrain** (7.7.1)

Size and Type of Unit	RP Cost
Infantry Div., Cav. Corps, Corps Train	1
All other sizes/types	1/2

# ► Forced March Effectiveness Check [2d6]

#### **Forced March EC DRMs:**

+1 for every MP used for Forced Marching

## **Forced March Results Table** (7.2.3)

Failed EC by	1, 2, 3, 4	5+
Infantry Formation	-1E <b>↑</b>	-1E s <b>↑</b>
Cavalry Formation	-1E	-2E
Asset Unit	s 🛊	s 🛊

-#E = Lose # of Combat Effectiveness Levels.\*

s = Strength Reduction (SR). This may eliminate an Asset unit.

#### 1914 Offensive à outrance

<sup>\*\*</sup> Counts as 1 Div.-equivalent on the Artillery Table

<sup>\*</sup> A CEL reduction that cannot be allocated is converted into an 's' result.