

PORTABLE WARGAME: 19TH CENTURY

Turn Sequence

1. Artillery Fire Phase (N.B. Artillery does not need to be activated in order to fire).
2. Dice for Initiative.
3. Side A then moves, fires, and conducts Close Combats with each of their Units in turn, subject to any restrictions laid down in the rules.
4. Side B then moves, fires, and conducts Close Combats with each of their Units in turn, subject to any restrictions laid down in the rules.
5. Both sides check to see if they have reached their Exhaustion Point.

Artillery Fire

Type of Artillery	Range	Rules
Heavy Artillery	12 hexes	<ol style="list-style-type: none"> a) Artillery fire is simultaneous, and the effect of artillery fire upon targets is determined after all Artillery Units have fired. b) All ranges are measured through the edges of the hexes, not the corners. c) Each Artillery Unit <u>may</u> fire only once each turn. d) Artillery fire can destroy any type of Ground Unit. e) Artillery Units fire have an arc of fire that is 120° forward of the direction in which they are facing (i.e. in an arc sweeping from one 60° diagonal line of hexes to the other). f) Artillery Units may fire over other Units that are in front of them. g) Artillery Units can fire <u>into</u> woods, built-up areas, and fortifications. h) Artillery Units can fire <u>out</u> of woods, built-up areas, and fortifications <u>if</u> they are in a hex that is on the edge of the woods, built-up areas, or fortifications (i.e. the adjacent hex in the direction they are firing <u>does not</u> contain woods, built-up areas or fortifications). i) If a Unit can be seen by an Artillery Unit that is firing at it (i.e. there is a direct line-of-sight between the target and the Artillery Unit firing at it), the artillery fire is direct fire. j) If a Unit <u>cannot</u> be seen (i.e. there is a <u>no</u> direct line-of-sight between the target and the Artillery Unit firing at it) <u>or</u> it is in cover, the artillery fire is indirect fire. k) The target hex is identified. Roll one D6 die for each Unit firing – Die score = 5, 6 or more: Artillery fire lands on the target hex. Die score = 2 or 4: Artillery fire lands in the hex immediately in front of the target hex. Die score = 1 or 3: Artillery fire lands in the hex immediately behind the target hex. Die score = Less than 1: Artillery fire has been totally ineffective. Reduce the D6 die roll score by 1 if the target is in cover or fortifications. Increase the D6 die score by 2 if the Artillery Unit has a direct line-of-sight to the target hex. Increase the D6 die roll score by 1 if the Artillery Unit has fired at the same target during the previous turn. Increase the D6 die roll score by 1 if a friendly Commander is in the same hex as the firing Unit or in an adjacent hex.
Medium Artillery	10 hexes	
Field Artillery	8 hexes	
Mountain Artillery	6 hexes	

Movement

Type of Unit	Movement	Rules
Infantry	1 hex	<ol style="list-style-type: none"> a) All movement is measured through the edges of the hexes <u>not the corners</u>. b) A Unit may be moved only once each turn. c) Artillery Units may not be moved if they have fired. d) A Unit that is firing (or has fired) this turn reduces its movement by 1 hex. e) A Unit may change its direction of movement any number of times during its move but <u>must</u> end its move facing the edge of the hex <u>not the corner</u>. f) With the exception of a Horse-Drawn Transport Unit and Commanders, a Unit <u>may not</u> start or end its move in the same hex as a friendly Unit. g) No Unit may start or end its move in the same hex as an enemy Unit. h) A Unit <u>must</u> stop as soon as it enters a hex that is adjacent to the front, flank or rear of enemy Unit, and <u>must</u> turn to face the enemy Unit <u>at once</u>. i) If a Unit is being faced by an enemy Unit that is in an adjacent hex <u>and</u> the Unit has not yet moved this turn, it <u>may</u> move (i.e. it may withdraw to away from the enemy Unit) providing that it does not move into a hex that is adjacent to the front of another enemy Unit.
Dismounted Cavalry	1 hex	
Mounted Cavalry	2 hexes	
Machine Guns	1 hex	
Artillery	1 hex	
Horse-drawn Transport	1 hex	
Commanders	2 hexes	

Firing (Non-Artillery Units)

Type of Weapon	Range	Rules
Infantry Small Arms	3 hexes	a) All ranges are measured through the edges of the hexes <u>not the corners</u> . b) Each Unit <u>may</u> fire only once each turn. c) Non-Artillery Units fire have an arc of fire that is 120° forward of the direction in which they are facing (i.e. in an arc sweeping from one 60° diagonal line of hexes to the other). d) Non-Artillery Units may only fire at targets that are in direct line-of-sight. e) Non-Artillery Units can fire 1 hex <u>into</u> woods, built-up areas, and fortifications. f) Non-Artillery Units can fire <u>out</u> of woods, built-up areas, and fortifications if they are in a hex that is on the edge of the woods, built-up areas, or fortifications (i.e. the adjacent hex in the direction they are firing <u>does not</u> contain woods, built-up areas or fortifications). g) The target hex is identified. Roll one D6 die for each Unit armed with Infantry Small Arms or three D6 dice for each Machine Gun Unit that is firing – A 5 or 6 is a hit on all enemy Units that are in the target hex. (See RESOLVING HITS ON UNITS) Reduce the D6 die roll score by 1 if the target is in cover or fortifications. Increase the D6 die roll score by 1 if the firing Unit has not moved this turn. Increase the D6 die roll score by 1 if a friendly Commander is in the same hex as the firing Unit or in an adjacent hex.
Machine Guns	3 hexes	

Close Combat

Type of Unit	D6 Die score required <u>not to be hit</u> if		Rules
	Unit is front on to the enemy	Unit is flank or rear on to the enemy	
Infantry	3, 4, 5, 6	5, 6	a) A Unit must stop if it enters a hex that is adjacent to one occupied by an enemy Unit, and turn to face the enemy Unit. b) A rear or flank attack is one made directly on the side or rear of an enemy Unit. c) Both sides throw a D6 die <u>for their Unit</u> involved in a Close Combat and read the result from the appropriate column. Increase the D6 die roll score by 1 if a friendly Commander is in an adjacent hex. Increase the D6 die roll score by 1 if the Unit is in cover or fortifications. d) Infantry and Cavalry Units that win a Close Combat (i.e. because the enemy Unit has been destroyed <u>or</u> has retreated 1 hex) may move forward and occupy the hex that was occupied by the enemy Unit and may conduct further Close Combats if this makes them adjacent to a hex occupied by an enemy Unit.
Dismounted Cavalry	3, 4, 5, 6	5, 6	
Mounted Cavalry	2, 3, 4, 5, 6	4, 5, 6	
Machine Guns	3, 4, 5, 6	5, 6	
Artillery	4, 5, 6	5, 6	
Horse-drawn Transport	5, 6	6	
Commanders	3, 4, 5, 6	3, 4, 5, 6	

Resolving hits on Units

Unit Status	Results	Rules
Elite Units	1 or 2 = Unit is destroyed. 3, 4, 5, or 6 = Unit survives but must retreat 1 hex <u>or</u> it is destroyed.	a) Any Unit that is hit as a result of Artillery Fire, Non-Artillery Fire, or Close Combat throws a D6 die to resolve what happens. b) Any Unit unable to retreat 1 hex is destroyed.
Average Units	1, 2, or 3 = Unit is destroyed. 4, 5, or 6 = Unit survives but must retreat 1 hex <u>or</u> it is destroyed.	
Poor Units	1, 2, 3, or 4 = Unit is destroyed. 5, or 6 = Unit survives but must retreat 1 hex <u>or</u> it is destroyed.	

Special Rules

Exhaustion Point	<p>Before the battle begins, both sides calculate their Exhaustion Point. This is one third of the side's total initial number of Units, rounded up.</p> <p>When a side has lost that proportion of its initial number of Units, it has reached its Exhaustion Point.</p> <p>A side that has reached its Exhaustion Point must immediately stop taking aggressive action (i.e. it will continue to fight to defend its existing position, but will not continue any movement towards the enemy).</p> <p>When both sides have reached their Exhaustion Point, the battle ends.</p>
Horse-drawn Transport	<p>A Horse-drawn Transport Unit may tow an Artillery Unit.</p> <p>It takes one turn to limber or unlimber an Artillery Unit. During that turn both Units must be in the same hex.</p> <p>Horse-drawn Transport Units that are towing Artillery Units move at their normal movement rate.</p> <p>Any hit on a Horse-drawn Transport Unit is also deemed to be a hit on any Unit that it might be carrying or towing.</p>
Roads	<p>Units on roads move at normal movement rate, <u>plus</u> 1 hex if the <u>entire</u> move is made along a road.</p>
Hills	<p>In Close Combat a Unit that is attacking uphill against an enemy Unit reduces the D6 die score they throw by 1.</p>
Woods	<p>A Unit must stop as soon as it enters a wood.</p> <p>A Unit moving through a wood has a maximum movement rate of 1 hex per turn.</p> <p>The range of all weapons fired <u>within</u> a wood is reduced to 1 hex.</p> <p>In Close Combat a Unit that is in a wood increases the D6 die score they throw by 1.</p>
Rivers	<p>When using a ford in a river a Unit moves into the river on turn A and stops, then moves 1 hex out of the river on turn B.</p> <p>Units in rivers may not fire.</p> <p>In Close Combat a Unit that is in a river reduces the D6 die score they throw by 1.</p>
Barbed Wire	<p>A Unit can lay barbed wire in a hex by remaining in the hex for 1 turn.</p> <p>A Unit can remove barbed wire from a hex by remaining in the hex for 1 turn.</p> <p>Units <u>must</u> stop and remove the barbed wire next turn <u>or</u> stop and not resume their movement until the next turn.</p>
Trenches	<p>When crossing a trench a Unit moves into the trench on turn A and stops, then moves 1 hex out of the trench on turn B.</p> <p>Units crossing trenches may not fire.</p> <p>In Close Combat a Unit that is crossing a trench reduces the D6 die score they throw by 1.</p>

Definitions

Adjacent	<p>Any hex that touches the side of another hex is defined as being adjacent to it.</p>
Cover	<p>Cover is any natural or man-made terrain feature that can hide or obscure a target from view.</p>
Direct line of sight	<p>Direct line-of-sight is a straight line from the centre of one hex to the centre of another that is not obscured by cover or a vertical or horizontal obstacle.</p>
Fortifications	<p>Fortifications are any man-made defences built to strengthen a position. They include bunkers, dugouts, trenches, and fieldworks.</p>
Line-of-sight	<p>Line-of-sight is a straight line from the centre of one hex to the centre of another.</p>
Retreat	<p>A retreating Unit must withdraw into an adjacent empty hex that is not adjacent to a hex occupied by an enemy Unit. If it is unable to do so, it is destroyed.</p>