

LAST FULL MEASURE

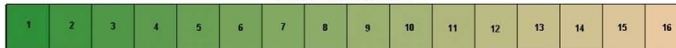
Terrain Effects Chart

Terrain	Infantry	Cavalry	Artillery	Horse-Artillery	Commander	Effect on Combat, Retreat, & Line-of-Sight
Clear	1	1	2	2	1	NE (no effect)
Trail	1	1	2	2	1	Cannot enter ZOC if road-movement was used otherwise NE Negates effects of other terrain in hex, including elevation
Road	1/4 * night/rain: 1/2	1/4 ** night/rain: 1/2	1/4 * night/rain: 1/2	1/4 ** night/rain: 1/2	1/4 ** night/rain: 1/2	Cannot enter ZOC if road-movement was used otherwise NE
Turnpike	1/4 *	1/4 **	1/4 *	1/4 **	1/4 **	Cannot enter ZOC if road-movement was used otherwise NE
Rail-Road	1	1	2	2	1	NE
Sunken-Road	1/2 *	1/2 **	1/2 *	1/2 **	1/2 **	+1 DRM to Attacker Defender Not Required to Retreat (NR)
Town (buildings are gray) Other color buildings have no effect on play.	1/4 MP 1 MP when not using road movement	1/4 MP 2 MP when not using road movement	1/4 MP 1 MP when not using road movement	1/4 MP 2 MP when not using road movement	1/4 MP 1 MP when not using road movement	+1 to Elevation Level of hex +1 DRM to Attacker NR
Elevation Change	+1 each level	+2 each level	+2 each level	+2 each level	NE	Each contour level on the hexside crossed adds 1MP for infantry and 2 MP for artillery and cavalry for each level up or down. If the unit doesn't have enough MP to pay the cost, the hexside is impassible.
River	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	No Combat except Ranged Artillery Fire ZOI does not cross
Creek hexside	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	Can only cross at fords or bridges	Attacker +1 DRM
Stream hexside	+1	+1	+2	+2	+1	Attacker +1 DRM
Bridge	0 creek 1 river	0 creek 1 river	0 creek 1 river	0 creek 1 river	0 creek 1 river	Attacker +1 DRM
Dam /Ford	0 creek 2 river	0 creek 1 river	0 creek 1 river	0 creek 1 river	0 creek 1 river	Attacker +1 DRM when attacking from within a river ford
Woods	1	2	3	3	1	+1 to Elevation Level of hex NR

* When not using road-movement, cost is the same as other terrain in the hex.

** When not using road-movement, treat as clear terrain.

Elevation scale



UNION
VICTORY
POINTS

100

10

1

100

10

1

CONFEDERATE
VICTORY
POINTS

TURN RECORD

6am 7am 8am 9am 10am 11am 12pm 1pm 2pm 3pm 4pm

5pm 6pm NIGHT 1 NIGHT 2
September 14th September 15th September 16th September 17th September 18th September 19th September 20th

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Reinforcement Schedule

Hex#: Commanders Unit · artillery (formation) (MP remaining) *=full brigade

Hex#: Commanders Unit · artillery (formation) (MP remaining) *=full brigade

Sept 14 8 am	7119: Cox Scammon* · McMullin · Benjamin (IXK) 15PA Cav · Gibson (C)	Sept 14 8 am	4901: DRJones Garnet* Kemper* Jenkins* (RW/DJ) 0175: AP Hill Pender* Thomas* Archer* Field* Gregg* Branch* · McIntosh · Crenshaw · Braxton · Pegram (LW/AH)
10 am	7119: Crook* · Simmonds (IXK)	12 pm	4901: GBAnderson* · Jones (LW/DH) 0162: Taliaferro* (LW/JJ/T)
11 am	7119: Hooker Meade Seymour* Bolinger* Gallagher* · Simpson · Cooper · Ransom (I) 7138: Rush* (C) (3 mp)	1 pm	4901: Rhodes* Ripley* · Hardaway (LW/DH)
1 pm	7119: MacClellan Burnside Pleasanton Farnsworth* McReynolds* Whiting* 3PA Cav · Hains · Robertson · Tidball (C) 7119: Hatch Phelps* Doubleday* Patrick* Gibbon* · Edgell · Monroe · Reynolds · Campbell (I) 7150: Slocum Bartlett* Torbert* (VI/1)	2 pm	4901: Drayton* Jones* · Wise (RW/DJ)
2 pm	7150: Franklin Newton* · Wolcott · Porter · Hexamer · Williston (VI/1)	3 pm	4901: Hood Wofford* Law* · Bachman · Garden · Reilly (RW/H/D)
3 pm	7119: Reno Wilcox Christ* Welch* · Cook (IX/1) 7150: Smith Hancock* Brooke* Irwin* · Vannerman · Cowen · Martin (VI/2)	5 pm	4901: Evans* · Boyce
4 pm	7119: Ricketts Duryea* Christian* Hartsuff* · Matthews · Thompson (II/2) Sturgis Nangle* Ferrero* · Clark · Durell (IX/2) Rodman Fairchild* Harland* · Muhlenberg · Edwards (IX/3) · Roemer (IX)	6 pm	4901: RE Lee Lonstreet Toombs* · Cuttshaw (LW/AR)
5 pm	7150: Couch Devens* Howe* Cochrane* · Stuart · McCarthy · Hall · Butler (IV/1)	Night 1	4901: · Woolfolk · Jordan · Elliot · Eubank · Moody · Parker (RW/SDLee) · Squires · Richardson · Miller · Eshleemann (RW/Walton) · Blackshear (LW/Cutts) · Watson (LW/Brown) · Page · Peyton · Turner · Wimbish (LW/Jones)
6 pm	7119: Porter Morell Barnes* Griffin* Stockton* 1USSS · Martin · Waterman · Hazlett (VI/1)	Night 2	4901: Stuart F Lee 1VA 3VA 4VA 9VA (C/L) · Hart (C) 6VA 7VA 17VA batt (C/M)
Night 1	7119: Sykes Buchanan* Lovel* Warren* · Randol · Weed · Reed (VI/2) Wever · Kleiser · Langner · Kusserow · Taft · Graham · Miller (VIAR) Mansfield Williams Crawford* Gordon* (XII/1) Greene Tyndale* Stainrook* Goodrich* (XII/2) · Robinson · McGilvery · Cothran · Bruen · Knap · Hampton · Muhlenberg (AR)		
Night 2	7119: Sumner Richardson Caldwell* Meagher* Brooke* · Pettit · Thomas (III/1) Sedgewick Gorman* Howard* Dana* · Tompkins · Woodruff (III/2) French Kimball* Morris* Weber* · Frank · Hazard · Owen (III/3)	Sept 17 Night 1	7119: Humphreys Tyler* Allabach* · Barnes · Robinson (VI/3)

Union Organization Chart

I/1/1 Phelps 21 NY 24 NY 30 NY 84 NY 2 USSS	I/1/2 Doubleday 7 IN 76 NY 95 NY 56 PA	I/1/3 Patrick 21 NY 23 NY 35 NY 80 NY	I/1/4 Gibbon 19 IN 2 WI 6 WI 7 WI	I/2/1 Duryea 97 NY 104 NY 105 NY 107 NY	I/2/2 Christian 26 NY 94 NY 88 PA 90 PA	I/2/3 Hartsuff 12 MA 13 MA 83 NY 11 PA
I/3/1 Seymour 1 PA Res 2 PA Res 5 PA Res 6 PA Res 13 PA Res	I/3/2 Bolinger 3 PA Res 4 PA Res 7 PA Res 8 PA Res	I/3/3 Gallagher 9 PA Res 10 PA Res 11 PA Res 12 PA Res	II/1/1 Caldwell 5 NH 7 NY 61 a 64 NY 81 PA	II/1/2 Meagher 29 MA 63 NY 69 NY 88 NY	II/1/3 Brooke 2 DE 52 NY 57 NY 66 NY 53 PA	II/2/1 Gorman 15 MA 1 MN 34 NY 82 NY MA SS MN SS
II/2/2 Howard 69 PA 71 PA 72 PA 106 PA	II/2/3 Dana 19 MA 20 MA 7 MI 42 NY 59 NY	II/3/1 Kimball 14 IN 8 OH 132 PA 7 WV	II/3/2 Morris 14 CT 108 NY 130 PA	II/3/3 Weber 1 DE 5 MD 4 NY	IV/1/1 Devens 7 MA 10 MA 36 NY 2 RI	IV/1/2 Howe 62 NY 93 PA 98 PA 102 PA 139 PA
IV/1/3 Cochrane 65 NY 67 NY 122 NY 23 PA 31 PA 61 PA	V/1/1 Barnes 2 ME 18 MA 22 MA 1 MI 13 NY 25 NY 118 PA MA SS	V/1/2 Griffin 2 DC 9 MA 32 MA 4 MI 14 NY 62 PA	V/1/3 Stockton 20 ME 16 MI 12 NY 17 NY 44 NY 83 PA MI SS	V/2/1 Buchanan 3 US 4 US 12 US 1 Batt 12 US 2 Batt 14 US 1 Batt 14 US 2 Batt	V/2/2 Lovell 1 and 6 US 2 and 10 US 11 US 17 US	V/2/3 Warren 5 NY 10 NY
V/3/1 Tyler 91 PA 126 PA 129 PA 134 PA	V/3/2 Allabach 123 PA 131 PA 133 PA 155 PA	VI/1/1 Torbert 1 NJ 2 NJ 3 NJ 4 NJ	VI/1/2 Bartlett 5 ME 16 NY 27 NY 96 PA	VI/1/3 Newton 18 NY 31 NY 32 NY 95 PA	VI/2/1 Hancock 6 ME 43 NY 49 PA 137 PA 5 WI	VI/2/2 Brooks 2 VT 3 VT 4 VT 5 VT 6 VT
VI/2/3 Irwin 7 ME 20 NY 33 NY 49 NY 77 NY	IX/1/1 Christ 28 MA 17 MI 79 NY 50 PA	IX/1/2 Welsh 8 MI 46 NY 45 PA 100 PA	IX/2/1 Nagle 2 MD 6 NH 9 NH 48 PA	IX/2/3 Ferrero 21 MA 35 MA 51 NY 51 PA	IX/3/1 Fairchild 9 NY 89 NY 103 NY	IX/3/2 Harland 8 CT 11 CT 16 CT 4 RI
IX/K/1 Scammon 12 OH 23 OH 30 OH	IX/K/2 Crook 11 OH 28 OH 36 OH	XII/1/1 Crawford 10 ME 28 NY 46 PA 124 PA 125 PA 128 PA	XII/1/3 Gordon 27 IN 2 MA 13 NJ 107 NY	XII/2/1 Tyndale 5 OH 7 OH 66 OH 28 PA	XII/2/2 Stainrook 3 MD 102 NY 111 PA	XII/2/3 Goodrich 3 DE Purnell Lgn 60 NY 78 NY
C/1 Whiting 5 US Cav 6 US Cav	C/2 Farnsworth 8 IL Cav 3 IN Cav 1 MA Cav 8 PA Cav	C/3 Rush 4 PA Cav 6 PA Cav	C/4 McReynolds 1 NY Cav 12 PA Cav	C/5 Davis 8 NY Cav 3 PA Cav	HF/C Voss 1 MD Cav 1 MD PHB Cav 12 IL Cav 7SQ RI Cav	



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Confederate Organization Chart

RW/M/K Kershaw 2 SC 3 SC 7 SC 8 SC	RW/M/C Cobb 16 GA 24 GA Cobbs GA Lgn 15 NC	RW/M/S Semmes 10 GA 53 GA 15 VA 32 VA	RW/M/B Barksdale 13 MS 17 MS 18 MS 21 MS	RW/A/Wi Wilcox 8 AL 9 AL 10 AL 11 AL	RW/A/Pa Parham 6 VA 12 VA 16 VA 41 VA 61 VA	RW/A/F Featherston 12 MS 16 MS 19 MS 2 MS Batt
RW/A/A Armistead 9 VA 14 VA 38 VA 53 VA 57 VA	RW/A/Pr Pryor 14 AL 2 FL 5 FL 8 FL 3 VA	RW/A/Wr Wright 44 AL 3 GA 22 GA 48 GA	RW/DJ/T Toombs 2 GA 15 GA 17 GA 48 GA	RW/DJ/D Drayton 50 GA 51 GA Philips GA Lgn 15 SC 3 SC Batt	RW/DJ/G Garnet 8 VA 18 VA 19 VA 28 VA 56 VA	RW/DJ/K Kemper 1 VA 7 VA 11 VA 17 VA 24 VA
RW/DJ/Je Jenkins 1 SC Volunteers 2 SC Rifles 5 SC 6 SC	RW/DJ/o Jones 1 GA Regulars 7 GA 8 GA 9 GA 11 GA	RW/W/M Manning 3 AR 27 NC 46 NC 48 NC 30 NC	RW/W/R Ransom 24 NC 25 NC 35 NC 49 NC	RW/H/Wo Wofford 18 GA Hamptons Lgn 1 TX 4 TX 5 TX	RW/H/L Law 4 AL 2 MS 11 MS 6 NC	RW/H/E Evans 17 SC 18 SC 22 SC 23 SC Holcombe SC Lgn
LW/L/D Douglas 13 GA 26 GA 31 GA 38 GA 60 GA 61 GA	LW/L/E Early 13 VA 25 VA 31 VA 44 VA 49 VA 52 VA 58 VA	LW/L/T Trimble 15 AL 12 GA 21 GA 21 NC	LW/L/H Hays 5 LA 6 LA 7 LA 8 LA 14 LA	LW/AH/B Branch 7 NC 18 NC 28 NC 33 NC 37 NC	LW/AH/G Gregg 1 SC Prvsnl Army 1 SC Rifles 12 SC 13 SC 14 SC	LW/AH/F Field 40 VA 47 VA 55 VA 22 VA Batt
LW/AH/A Archer 5 AL Batt 19 GA 1 TN Prvsnl Army 7 TN 14 TN	LW/AH/P Pender 16 NC 22 NC 34 NC 38 NC	LW/AH/T Thomas 14 GA 35 GA 45 GA 49 GA	LW/J/G Grigsby 4 VA 5 VA 27 VA 33 VA	LW/J/T Taliaferro 47 AL 48 AL 10 VA 23 VA 37 VA	LW/J/V Jones 21 VA 42 VA 48 VA 1 VA Batt	LW/J/S Starke 1 LA 2 LA 9 LA 10 LA 15 LA
LW/DH/Ri Ripley 4 GA 44 GA 1 NC 3 NC	LW/DH/Ro Rhodes 3 AL 5 AL 6 AL 12 AL 26 AL	LW/DH/G Garland 5 NC 12 NC 13 NC 20 NC 23 NC	LW/DH/A G.B.Anderson 2 NC 4 NC 14 NC 30 NC	LW/DH/C Colquitt 13 AL 6 GA 23 GA 27 GA 28 GA	C/H Hampton 1 NC Cav 2 SC Cav 10 VA Cav Cobbs GA Lgn Jeff Davis MS Lgn	C/L Lee 1 VA Cav 3 VA Cav 4 VA Cav 5 VA Cav 9 VA Cav
C/M Munford 2 VA Cav 6 VA Cav 7 VA Cav 12 VA Cav 17 VA Batt						



II/3/3
1 DE
7 3




Division (red=1st, white=2nd, blue=3rd, green=4th)



RW/H/E
18 SC
2 3



Division band 

Right Wing (Longstreet's command)

LW/DH/A
4 NC
2 3



Left Wing (Jackson's command)