0 A.D. is **A**ctually **B**efore **C**hrist https://github.com/Oabc/Oabc-a23.git

A modification of 0 A.D. Empires Ascendant version 0.0.23 Alpha XXIII: Ken Wood

0 a b c @mail.com \$\$ https://wildfiregames.com/forum/index.php?/topic/22779-0 abc-mod/ February 14, 2019



Contents

1	Intr	oducti	ion																								:
	1.1	Instru	ctic	ns .			 		 	 							 		 			 	•	 			3
2	Uni																										4
	2.1	Popula	atic	n cos	ts		 		 	 							 		 			 		 			4
	2.2	Count	ers				 		 	 							 		 			 		 			4
	2.3	Unit t	уре	s			 		 	 							 		 			 		 			Ę
		2.3.1	In	fantry	<i>y</i> .		 		 	 							 		 			 		 			Ę
		2.3.2	\mathbf{C}_{i}	amelr	у.		 		 	 							 		 			 		 			6
		2.3.3	C_i	avalry			 		 	 							 		 			 		 			6
		2.3.4	\mathbf{C}	hariot	ry		 		 	 							 		 			 		 			7
		2.3.5	\mathbf{E}	lephar	$_{ m try}$		 		 	 							 		 			 		 			7
		2.3.6		ogs .																							7
		2.3.7		ege er																							7
		2.3.8		nips	_																						8
		2.3.9		ipport																							8
	2.4	Unit r																									ç
		2.4.1		fantry																							ç
		2.4.2		avalry																							10
		2.4.3		xotic 1																							10
		2.4.4		ege er																							11
		2.4.5		_																							11
		2.4.6		ipport																							11
		2.1.0	50	ippor		• •	 • •	•	 	 •	• •	 •	• •	• •	•	• •	 	•	 	•	•	 	•	 	•	•	
3	Stru	ıctures																									12
	3.1	Civic .					 		 	 							 		 			 		 			12
	3.2	Econo	mic	·			 		 	 							 		 			 		 			12
	3.3	Militar	ry				 		 	 							 		 			 		 			13
	3.4	Defens	sive				 		 	 							 		 			 		 			14
4	Tecl	hnolog	ries	and	am	ras																					15
_	4.1	Unit a					 		 	 							 		 			 		 			15
	4.2	Class 1																									15
	4.3	Civiliz																									15
	4.4	Team																									15

1 Introduction

Oabc is an acronym for "0 A.D. is Actually Before Christ". This mod tweaks, rebalances, and improves upon what already exists in the game. Amongst other things, it contains a moderate bonus attack counter and penalty system, more experience promotion ranks (0–12), and a new resource (silver).

Oabc serves as a showcase for what 0 A.D. easily could be at the moment, as a playground for me experimenting with modifying the game to get used to the code structure, and as a platform for including my own opinions and views to have the game the way I like it. Being a test mod of an alpha-stage game, it is inherently imperfect, unfinished, and restricted by my limited programming skills and the files available in 0 A.D.'s latest stable release.

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1.1 Instructions

- Use git clone https://github.com/Oabc/Oabc-a23.git to get the repository directly or download it as a zip via https://github.com/Oabc-a22/archive/master.zip
- Place it in your /Oad/mods/ folder:

GNU/Linux (e.g. Fedora) typically: ~/.local/share/Oad/mods/ Macintosh/Apple OS X typically: ~/Library/Application\Support/Oad/mods/ Microsoft Windows typically: ~\Documents\My Games\Oad\mods\

- Launch 0 A.D., click "Settings" and "Mod Selection"
- Select Oabc, click "Enable" and "Save Configuration"
- Add, remove, or move up or down any other mods, click "Save Configuration" and "Start Mods"
- Click "Learn To Play" and "Structure Tree" to see the mod(s) implemented.

2 Units

2.1 Population costs

- ullet 0: fauna, catafalques, ships
- 1: infantry, women, healers, traders
- 2: camelry, cavalry
- 3: worker elephants
- \bullet 4: bigae, battering rams, bolt-shooters, stone-throwers
- 5: -
- $\bullet\,$ 6: quadrigae, war elephants, siege towers

2.2 Counters

war dogs - Ships, Siege, Structure infantry lead-slingers - - infantry lead-slingers - - infantry archers 0.5x vs Elephantry - infantry crosbowmen - - infantry javelinists - - infantry wac-throwers - - infantry macemen - - infantry sabremen - - infantry swordsmen - - infantry swordsmen - - infantry swordsmen - - infantry splemen - - infantry pikemen - - camel archers 0.5x vs Elephantry - camel spearmen 0.5x vs Elephantry - camel spearmen 0.5x vs Elephantry - cavalry archers 0.5x vs Elephantry - cavalry swemen 0.75x vs Chariotry, 0.5x vs Elephantry - cavalry sakemen 0.75x vs Chariotry, 0.5x vs Elephantry - cavalry sp	${f unit}$	new penalties	new bonuses	restricted
infantry lead-slingers - - - infantry longbowmen 0.5× vs Elephantry - - infantry crossbowmen - - - infantry pacethrowers - - - infantry macemen - - - infantry macemen - - - infantry sabremen - - - infantry swordsmen - - - infantry swordsmen - - - infantry spearmen - - - infantry pikemen - - - camel archers 0.5× vs Elephantry - - camel javelinists - - - camel spearmen 0.5× vs Elephantry - - cavalry archers 0.5× vs Elephantry - - cavalry javelinists - - - cavalry javemen 0.75× vs Chariotry, 0.5× vs Elephantry - - cavalry sabremen	war dogs	_	_	Ships, Siege, Structure
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infantry archers 0.5× vs Elephantry - - infantry crossbowmen - - - infantry axelmists - - - infantry axethrowers - - - infantry axemen - - - infantry sabremen - - - infantry swordsmen - - - infantry spearmen - - - camel spearmen 0.5× vs Elephantry - - cavalry archers 0.5× vs Elephantry - - <	infantry lead-slingers	_	_	_
infantry crossbowmen infantry javelinists -	infantry longbowmen	$0.5 \times \text{vs}$ Elephantry	_	_
infantry javelinists -	infantry archers	$0.5 \times \text{vs Elephantry}$	_	_
infantry axe-throwers -	infantry crossbowmen	_	_	_
infantry macemen - - - infantry axemen - - - infantry sabremen - - - infantry longswordsmen - - - infantry swordsmen - - - infantry phoplites - - - infantry spearmen - - - infantry pikemen - - - camel archers 0.5× vs Elephantry - - camel spearmen 0.5× vs Elephantry - - cawalry archers 0.5× vs Elephantry - - cavalry javelinists - - - cavalry savemen 0.75× vs Chariotry, 0.5× vs Elephantry - - cavalry axemen 0.75× vs Chariotry, 0.5× vs Elephantry - - cavalry sabremen 0.75× vs Chariotry, 0.5× vs Elephantry - - cavalry sabremen 0.75× vs Chariotry, 0.5× vs Elephantry - - cavalry swordsmen 0.75× vs Chariotry, 0.5×	infantry javelinists	_	_	_
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$\begin{array}{cccccccccccccccccccccccccccccccccccc$	cavalry swordsmen	$0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry	_	_
quadriga archers $0.5\times$ vs Elephantry-Ships, Siege, Structurewar elephantsbolt-shooterstone-thrower- $2.0\times$ vs Ships	biga archers	$0.5 \times$ vs Elephantry	_	Ships, Siege, Structure
war elephants - - - bolt-shooter - - - stone-thrower - 2.0× vs Ships -	biga javelinists	_	_	Ships, Siege, Structure
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	quadriga archers	$0.5 \times \text{vs Elephantry}$	_	Ships, Siege, Structure
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$		_	_	
		_	_	_
	stone-thrower	_	$2.0 \times \text{vs Ships}$	_
	battering ram	_	$2.0 \times$ vs Defensive	Organic
siege tower – – – –		_	_	_

2.3 Unit types

2.3.1 Infantry

class	pop.	training costs	exp.	vision	walk	health	armour	damage	rate	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
infantry	1	30, 30, 0, 0, 10; 70	60/-	75	11.5	60	2, 2, 2, 2	6, 0, 0, 0	1000	45	
stone-slinger	(1)	(-, 50, 20, 0, 30; 10)	(100/100)	(80)	(10.8)	(50)	(10, 1, 1, -)	(1, 0, 9.5, -)	(1250)	(48)	
infantry	1	30, 30, 0, 0, 0; 75	60/-	75	11.5	60	2, 2, 2, 2	0, 0, 4, 0	1000	75	
lead-slinger	(1)	(-, 50, 20, 0, 30; 10)	(100/100)	(80)	(10.8)	(50)	(10,1,1,-)	(1, 0, 9.5, -)	(1250)	(48)	
infantry	1	30, 30, 0, 0, 0; 55	60/-	75	10.0	60	2, 2, 2, 2	0, 0, 5, 0	1000	66	
longbowman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(9.9)	(50)	(10,1,1,-)	(0,0,6,-)	(1000)	(72)	
infantry	1	30, 30, 0, 0, 0; 60	60/-	75	10.5	60	2, 2, 2, 2	0, 0, 6, 0	1000	60	
archer	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(9.9)	(50)	(10,1,1,-)	(0,0,6,-)	(1000)	(72)	
infantry	1	30, 30, 0, 0, 0; 50	60/-	75	9.0	60	2, 2, 2, 2	0, 0, 6, 3	1000	45	
crossbowman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(9.9)	(50)	(10,1,1,-)	(0,0,6, $-)$	(1000)	(72)	
infantry	1	30, 30, 0, 0, 0; 45	60/-	75	11.0	60	2, 2, 2, 2	0, 0, 12, 0	1000	30	
javelinist	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(12.6)	(50)	(10,1,1,-)	(0, 0, 16, -)	(1250)	(24)	
infantry	1	30, 30, 0, 0, 0; 40	60/-	75	10.5	60	2, 2, 2, 2	3, 6, 0, 0	1000	15	
axe-thrower	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(12.6)	(50)	(10, 1, 1, -)	(0, 0, 16, -)	(1250)	(24)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	10.0	90	4, 3, 4, 5	7, 0, 0, 0	1000	3	
maceman	(1)	(-, 50, 40, 10, 0; 10)	(100/100)	(80)	(9.45)	(100)	(15,5,5,-)	(0, 5.5, 0, -)	(750)	(3.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	10.5	90	4, 4, 4, 4	2.5, 5, 0, 0	1000	3	
axeman	(1)	(-, 50, 40, 10, 0; 10)	(100/100)	(80)	(9.45)	(100)	(15,5,5,-)	(0, 5.5, 0, -)	(750)	(3.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	10.5	90	5, 4, 4, 3	0, 7, 0, 0	1000	3	
sabreman	(1)	(-, 50, 40, 10, 0; 10)	(100/100)	(80)	(9.45)	(100)	(15,5,5,-)	(0, 5.5, 0, -)	(750)	(3.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	9.5	90	3, 5, 3, 5	0, 6, 0, 2	1000	3	
longswordsman	(1)	(-, 50, 40, 10, 0; 10)	(100/100)	(80)	(9.45)	(100)	(15,5,5,-)	(0,5.5,0,-)	(750)	(3.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	10.0	90	4, 4, 4, 4	0, 4, 0, 4	1000	3	
swordsman	(1)	(-, 50, 40, 10, 0; 10)	(100/100)	(80)	(9.45)	(100)	(15,5,5,-)	(0, 5.5, 0, -)	(750)	(3.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	9.5	90	3, 5, 4, 4	0, 2, 0, 6	1000	3	
hoplite	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(8.55)	(100)	(15,5,5,-)	(0, 3.0, 2.5, -)	(1000)	(4.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	10.0	90	3, 5, 4, 4	0, 0, 0, 7	1000	3	
spearman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(8.55)	(100)	(15,5,5,-)	(0, 3.0, 2.5, -)	(1000)	(4.5)	
infantry	1	30, 30, 0, 0, 0; 30	60/-	75	9.0	90	5, 3, 5, 3	0, 0, 3, 3	1000	6	
pikeman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(7.2)	(100)	(15, 10, 10, -)	(0, 1.0, 3.0, -)	(2000)	(7.0)	

2.3.2 Camelry

${f class}$	pop.	training costs	\exp .	vision	walk	\mathbf{health}	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
camel	2	50, 75, 0, 0, 0; 75	90/-	85	18.0	110	1, 1, 1, 1	0, 0, 6, 0	1000	68	
archer	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(17.55)	(100)	(15, 3, 1, -)	(0, 0, 7, -)	(1000)	(72)	
camel	2	50, 75, 0, 0, 0; 60	90/-	85	18.0	110	1, 1, 1, 1	0, 0, 15, 0	1000	34	
javelinist	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(17.55)	(100)	(15, 3, 1, -)	(0, 0, 18, -)	(1250)	(28)	
camel	2	50, 75, 0, 0, 0; 45	90/-	85	18.0	135	2, 2, 2, 2	0, 0, 0, 9	1000	3	
spearman	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(19.305)	(160)	(15, 4, 3, -)	(0, 6, 5, -)	(2000)	(4.5)	

2.3.3 Cavalry

class	pop.	training costs	exp.	vision	walk	health	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
cavalry	2	60, 90, 0, 0, 0; 90	120/-	80	15.0	120	1, 1, 1, 1	0, 0, 6, 0	1000	64	
archer	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(17.55)	(100)	(15, 3, 1, -)	(0, 0, 7, -)	(1000)	(72)	
cavalry	2	60, 90, 0, 0, 0; 80	120/-	80	15.0	120	1, 1, 1, 1	0, 0, 6, 3	1000	48	
crossbowman	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(17.55)	(100)	(15, 3, 1, -)	(0, 0, 7, -)	(1000)	(72)	
cavalry	2	60, 90, 0, 0, 0; 75	120/-	80	15.0	120	1, 1, 1, 1	0, 0, 15, 0	1000	32	
javelinist	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(17.55)	(100)	(15, 3, 1, -)	(0, 0, 18, -)	(1250)	(28)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	9, 0, 0, 0	1000	3	
maceman	(1)	(-, 100, 30, 20, 0; 15)	(130/150)	(92)	(21.06)	(160)	(15, 4, 2, -)	(0, 6.5, 0, -)	(750)	(3.5)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	3, 6, 0, 0	1000	3	
axeman	(1)	(-, 100, 30, 20, 0; 15)	(130/150)	(92)	(21.06)	(160)	(15, 4, 2, -)	(0, 6.5, 0, -)	(750)	(3.5)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	0, 9, 0, 0	1000	3	
sabreman	(1)	(-, 100, 30, 20, 0; 15)	(130/150)	(92)	(21.06)	(160)	(15, 4, 2, -)	(0, 6.5, 0, -)	(750)	(3.5)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	0, 5, 0, 5	1000	3	
swordsman	(1)	(-, 100, 30, 20, 0; 15)	(130/150)	(92)	(21.06)	(160)	(15, 4, 2, -)	(0, 6.5, 0, -)	(750)	(3.5)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	0, 0, 0, 10	1000	3	
spearman	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(19.305)	(160)	(15, 4, 3, -)	(0, 6, 5, -)	(2000)	(4.5)	
cavalry	2	60, 90, 0, 0, 0; 60	120/-	80	15.0	150	3, 3, 3, 3	2, 0, 0, 8	1000	3	
lancer	(1)	(-, 100, 50, 0, 0; 15)	(130/150)	(92)	(19.305)	(160)	(15, 4, 3, -)	(0, 6, 5, -)	(2000)	(4.5)	

2.3.4 Chariotry

${f class}$	pop.	training costs	exp.	vision	walk	\mathbf{health}	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
biga	4	120, 180, 0, 0, 0; 75	180/-	85	16.0	240	5, 5, 5, 5	0, 0, 7, 0	1000	72	arrow count: 1–2 (–)
archer	(1)	(-, 250, 100, 100, 0; 30)	(150/-)	(96)	(20.25)	(240)	(20, 7, 5, -)	(0, 0, 14, -)	(1000)	(76)	
biga	4	120, 180, 0, 0, 0; 75	180/-	85	16.0	240	5, 5, 5, 5	0, 0, 21, 0	1000	36	arrow count: 1–2 (–)
javelinist	(1)	(-, 250, 100, 100, 0; 30)	(150/-)	(96)	(20.25)	(240)	(20, 7, 5, -)	(0, 0, 36, -)	(1250)	(32)	
quadriga	6	180, 300, 0, 0, 0; 75	240/-	85	17.0	360	6, 6, 6, 6	5, 10, 0, 10	1000	5	[melee]
scythed								0, 0, 7, 0	1000	72	[ranged]
	(1)	(-, 250, 100, 100, 0; 30)	(150/-)	(96)	(20.25)	(240)	(20, 7, 5, -)	(0, 0, 14, -)	(1000)	(76)	arrow count: 1–2 (–)

2.3.5 Elephantry

class	pop.	training costs	exp.	vision	walk	\mathbf{health}	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
Indian	6	390, 270, 0, 0, 0; 90	360/-	90	12.0	660	20, 5, 15, 10	66, 0, 0, 0	1000	6	
elephant	(3)	(-, 250, 0, 250, 0; 30)	(150/-)	(100)	(8.45)	(750)	(25, 10, 10, -)	(150, 20, 0, -)	(1500)	(8)	
North African	6	330, 210, 0, 0, 0; 90	360/-	90	12.0	540	20, 5, 15, 10	54, 0, 0, 0	1000	6	
elephant	(3)	(-, 250, 0, 250, 0; 30)	(150/-)	(100)	(8.45)	(750)	(25, 10, 10, -)	(150, 20, 0, -)	(1500)	(8)	

2.3.6 Dogs

${f class}$	pop.	training costs	\exp .	vision	walk	\mathbf{health}	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
war	0	0, 30, 0, 0, 0; 15	15/-	30	14.0	30	1, 1, 2, 1	0, 0, 6, 0	1000	2	
dog	(0)	(-, 100, 0, 0, 0; 15)	(100/100)	(30)	(14.40)	(90)	(1, 1, 2, -)	(0, 7, 2, -)	(1000)	(3)	

2.3.7 Siege engines

${f class}$	pop.	construction costs	exp.	vision range	walk	health	armour	\mathbf{damage}	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	packed/unpacked	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
bolt-shooter	4	0, 100, 150, 150, 0; 80	-/-	50/100	8.0	200	5, 1, 50, 2	0, 0, 100, 50	5000	15 - 90	un/pack (ms): 9000 (10000)
	(2)	(-, 0, 250, 250, 0; 20)	(200/-)	(120)	(8.1)	(200)	(5, 1, 50, -)	(25, 0, 150, -)	(4000)	(26-80)	l. splash: $-(5c+0h+75p)$
stone-thrower	4	0, 100, 200, 100, 0; 100	-/-	50/100	7.0	250	5, 1, 50, 2	100, 0, 0, 0	5000	30-90	un/pack (ms): 12000 (10000
	(2)	(-, 0, 400, 0, 250; 25)	(300/-)	(120)	(7.2)	(250)	(5, 1, 50, -)	(100, 0, 10, -)	(5000)	(26-80)	c. splash: $-(35c+0h+15p)$
battering ram	4	0, 100, 300, 100, 0; 40	-/-	40	6.0	400	5, 1, 50, 2	40, 0, 0, 0	1000	6.5	garrison capacity: 8 (10)
	(3)	(-, 0, 350, 200, 0; 30)	(60/-)	(80)	(8.1)	(400)	(5, 1, 50, -)	(150, 0, 0, -)	(1500)	(6.5)	
siege tower	6	0, 200, 500, 300, 0; 180	-/-	100	4.0	750	5, 1, 50, 2	2, 0, 6, 0	1000	10-60+10	garrison capacity: 20 (20)
	(3)	(-, 0, 500, 300, 0; 60)	(60/-)	(80)	(6.3)	(500)	(5, 1, 50, -)	(2.5, 0, 12, -)	(2000)	(10-55+10)	arrow count: 2–12 (0–10)

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2.3.8 Ships

class	pop.	construction costs	exp.	vision	walk	\mathbf{health}	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
fishing	0	0, 15, 60, 0, 0; 20	-/-	75	12.0	150	2, 2, 4, 2	0, 0, 0, 10	1000	5	garrison capacity: 1 (1)
boat	(1)	(-,0,50,0,0;20)	(1/-)	(30)	(9.9)	(200)	(2, 2, 5, -)	(0, 10, 0, -)	(1000)	(5)	food capacity: 60 (40)
merchant	0	0, 30, 120, 60, 0; 40	-/-	90	11.0	600	3, 3, 6, 3	_	_	_	garrison capacity: 15 (15)
ship	(1)	(-, 0, 0, 100, 0; 20)	(25/-)	(50)	(12.15)	(400)	(2,2,5,-)	(-)	(-)	(-)	trade gain: $0.75 (0.75)$
fireship	0	0, 0, 150, 0, 0; 15	-/-	60	13.0	450	4, 4, 8, 4	5, 5, 5, 5	100	10	regeneration: $-5(-6)$;
	(1)	(-,0,50,0,0;30)	(-/-)	(60)	(14.4)	(500)	(5, 5, 10, -)	(10, 10, 10, -)	(100)	(8)	death damage
barge	0	0, 50, 250, 100, 0; 50	-/-	120	10.0	1800	5, 5, 10, 5	0, 0, 5, 0	1000	60	garrison capacity: 45 (40)
(trireme)	(3)	(-, 0, 150, 150, 0; 40)	(100/-)	(90)	(14.58)	(1600)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(55)	arrow count: 0–20 (3–13)
huge barge	0	0, 100, 400, 150, 0; 80	-/-	120	8.5	2700	5, 5, 10, 5	0, 0, 5, 0	1000	60	garrison capacity: 75 (40)
(trireme)	(3)	(-, 0, 150, 150, 0; 40)	(100/-)	(90)	(14.58)	(1600)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(55)	arrow count: 0–30 (3–13)
triaconter	0	0, 60, 60, 30, 0; 30	-/-	105	10.0	300	5, 5, 10, 5	0, 0, 6, 0	1000	60	garrison capacity: 5 (20)
(bireme)	(2)	(-, 0, 125, 50, 0; 20)	(75/-)	(90)	(13.95)	(800)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(45)	arrow count: 1–3 (2–10)
penteconter	0	0, 100, 100, 50, 0; 45	-/-	105	9.5	500	5, 5, 10, 5	0, 0, 6, 0	1000	60	garrison capacity: 10 (20)
(bireme)	(2)	(-, 0, 125, 50, 0; 20)	(75/-)	(90)	(13.95)	(800)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(45)	arrow count: 1–5 (2–10)
trireme	0	0, 300, 300, 150, 0; 60	-/-	100	8.5	1500	6, 6, 12, 6	0, 0, 6, 0	1000	60	garrison capacity: 20 (30)
(trireme)	(3)	(-, 0, 150, 150, 0; 25)	(100/-)	(90)	(16.2)	(1400)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(55)	arrow count: 2–10 (3–13)
quadrireme	0	0, 400, 400, 200, 0; 75	-/-	100	8.0	2000	6, 6, 12, 6	0, 0, 6, 0	1000	60	garrison capacity: 40 (30)
(trireme)	(3)	(-, 0, 150, 150, 0; 25)	(100/-)	(90)	(16.2)	(1400)	(5, 5, 10, -)	(0,0,35,-)	(2000)	(55)	arrow count: 4–20 (3–13)
quinquereme	0	0, 500, 500, 250, 0; 90	-/-	100	7.5	2500	7, 7, 14, 7	0, 0, 6, 0	1000	60	garrison capacity: 60 (50)
	(3)	(-, 0, 350, 200, 350; 30)	(150/-)	(110)	(16.2)	(2000)	(5,5,10,-)	(100, 0, 10, -)	(5000)	(10-72)	arrow count: 6–30 (1–10)

2.3.9 Support

class	pop.	training costs	exp.	vision	walk	health	armour	damage	\mathbf{rate}	range	other
	size	(s, f, w, m, s; time)	loot/up	range	\mathbf{speed}		(c, h, p, t)	(c, h, p, t)	(ms)	(m)	stats
woman	1	30, 30, 0, 0, 0; 60	-/-	60	9.0	45	1, 1, 1, 1	5, 0, 0, 0	1000	15	build rate: $-(1.0)$
(female citizen)	(1)	(-, 50, 0, 0, 0; 8)	(10/-)	(32)	(9.0)	(25)	$(1,\ 1,\ 1,\ -)$	(0, 2, 0, -)	(1000)	(3)	
slave	1	50, 0, 0, 0, 0; 60	-/-	60	9.0	45	1, 1, 1, 1	_	_	_	build rate: 0.5 (0.5)
	(0)	(-, 0, 0, 50, 0; 20)	(10/-)	(12)	(9.0)	(100)	$(1,\ 1,\ 1,\ -)$	(-)	(-)	(-)	
healer	1	50, 30, 0, 0, 0; 60	-/-	60	9.0	75	1, 1, 1, 1	heal 1 HP	500	12	
	(1)	(-, 250, 0, 0, 0; 8)	(10/150)	(30)	(9.0)	(85)	$(1,\ 1,\ 1,\ -)$	(heal 5 HP)	(2000)	(12)	
trader	1	0, 50, 50, 50, 0; 60	-/-	60	9.0	100	1, 1, 1, 1	_	_	_	trade gain: $0.75 (0.75)$
	(1)	(-, 100, 0, 80, 0; 15)	(10/-)	(60)	(9.0)	(100)	$(1,\ 1,\ 1,\ -)$	(-)	(-)	(-)	
worker	3	0, 150, 0, 0, 0; 60	-/-	60	5.4	450	9, 3, 7, 5	_	_	_	build rate: 2.0 (2.0)
elephant	(1)	(-, 150, 0, 0, 0; 20)	(50/-)	(50)	(5.4)	(300)	(10, 5, 8, -)	(-)	(-)	(-)	

2.4 Unit roster

2.4.1 Infantry

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
infantry stone-slinger	V	_	Т	_	Т	_	_	_	_	V	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
infantry lead-slinger	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	${ m T}$	_	${ m T}$	_	_	${ m T}$	_	_	${ m T}$	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
infantry longbowman	_	_	_	_	_	V	_	V	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
infantry archer	_	V	_	_	_	_	_	_	V	_	_	Т
" " mercenary	_	_	_	${ m T}$	_	_	${ m T}$	_	_	${ m T}$	_	_
" " champion	_	_	_	_	_	\mathbf{C}	_	_	_	_	_	_
infantry crossbowman	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	\mathbf{C}	_	_	_	_	_
infantry javelinist	Т	_	V	V	V	_	V	_	Т	_	V	V
" " mercenary	_	${ m T}$	_	${ m T}$	_	${ m T}$	_	_	_	${ m T}$	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
infantry axe-thrower	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
infantry maceman	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	${ m T}$	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	\mathbf{C}	_	_	_	_
infantry axeman	_	_	_	_	_	_	_	_	_	_	_	
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	\mathbf{C}	_	_	_	_	_	_
infantry sabreman	_	_	_	_	V	_	_	Т	_	_	V	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	\mathbf{C}	_	_	_	_	_	_
infantry longswordsman	_	_	_	_	_	_	_	_	_	_	_	
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	C*	_	_	_	_	_	_	_	_	_	_	_
infantry swordsman	Т	_	V	_	_	Т	_	_	_	_	Т	_
" " mercenary	_	${ m T}$	_	_	_	_	_	_	_	${ m T}$	_	_
" " champion	_	_	C^*	_	_	_	_	_	_	_	\mathbf{C}	$^{\mathrm{C}}$
infantry hoplite	_	V	_	V	_	_	_	_	_	_	Т	
" " mercenary	_	${ m T}$	_	${ m T}$	_	_	${ m T}$	_	С	_	_	_
" " champion	_	\mathbf{C}	_	\mathbf{C}	_	_	\mathbf{C}	_	_	_	_	_
infantry spearman	V	_	Т	_	Т	V	_	V	V	_	_	V
" " mercenary	_	_	_	_	_	_	_	_	_	${ m T}$	_	_
" " champion	_	_	_	_	_	_	_	_	С	_	_	_
infantry pikeman	_	_	_	_	_	Т	V		_	V	_	T
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	\mathbf{C}	_	$^{\mathrm{C}}$
NB: → not available for	or this	faction	$V \cdot rear$	ires vill	l age nha	se T·r	equires	town nh	ase C .		city ph	

NB: \neg : not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

2.4.2 Cavalry

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
cavalry archer	_	_	_	_	_	_	_	_	Т	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	${ m T}$
" " champion	_	_	_	_	_	_	_	_	С	_	_	_
cavalry crossbowman	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
cavalry javelinist	V	V	Т	V	V	V	Т	V	V	_	Τ	V
" " mercenary	_	${ m T}$	_	_	_	_	_	_	_	${ m T}$	_	_
" " champion	_	_	_	_	С	_	_	_	_	_	_	_
cavalry maceman	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
cavalry axeman	_	_	_	_	_	_	_	_	Т	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
cavalry sabreman	_	_	_	Τ	_	_	_	_	_	_	_	_
" " mercenary	_	${ m T}$	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
cavalry swordsman	Т	_	V	_	_	_	_	Τ	_	_	_	_
" " mercenary	_	${ m T}$	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
cavalry spearman	_	_	_	_	Т	Т	_	_	Т	Т	V	_
" " mercenary	_	${ m T}$	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	\mathbf{C}	_	_	\mathbf{C}	_	_	_	$^{\mathrm{C}}$	_	_
cavalry lancer	_	_	_	_	_	_	V	_	_	_	_	Т
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	$^{\mathrm{C}}$	_	_	_	_	\mathbf{C}	_	С	_	_	\mathbf{C}
NB: = not availabl	o for th	ia factio	n 1/. n	ogninog r	rilla.co. r	hogo 7	, noguin	og torrn	nhaga 1	C. 20011	ros city	nhaga

NB: \neg : not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

2.4.3 Exotic units

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
camel archer	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	T	${ m T}$	_	${ m T}$
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
camel javelinist	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	${ m T}$	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
camel spearman	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	_	_	_	_
biga archer	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	$^{\mathrm{C}}$	_	_	_	_
biga javelinist	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	С	_	_	_	_	_	_	_	_	_	_	_
quadriga scythed	_	_	_	_	_	_	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	_	_	_	_	_	_	_	С	_	_	\mathbf{C}
Indian elephant	_	_	_	_	_	_	_	Т	_	_	_	_
" " mercenary	_	_	_	_	_	_	C^*	_	С	_	_	_
" " champion	_	_	_	_	_	_	_	\mathbf{C}	_	_	_	\mathbf{C}
North African elephant	_	_	_	_	_	С	_	_	_	_	_	_
" " mercenary	_	_	_	_	_	_	_	_	_	_	_	_
" " champion	_	\mathbf{C}	_	_	_	_	_	_	_	\mathbf{C}	_	_
war dog	V		_	1		_	_		-		_	

NB: \neg : not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

2.4.4 Siege engines

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
bolt-shooter	_	С	_	С	_	_	С	_	_	С	С	_
stone-thrower	_	С	_	_	_	_	С	С	_	С	С	\overline{C}
battering ram	Т	Т	Τ	Т	Т	Т	Т	Т	Т	Т	Т	\overline{T}
siege tower	_	_	_	_	_	_	С	_	_	С	_	\overline{C}

 \mathbf{NB} : \rightarrow : not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

2.4.5 Ships

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
fishing boat	V	V	V	V	V	V	V	V	V	V	V	V
merchant ship	Т	T	Τ	Τ	Т	Τ	Τ	Τ	Т	Τ	Τ	\overline{T}
fireship	_	_	_	_	Т	_	_	_	_	_	_	_
war barge	Т	_	Τ	_	Т	_	_	Τ	_	_	_	_
war barge huge	_	_	_	_	_	_	_	С	_	_	_	_
triaconter	_	_	_	_	_	_	_	_	_	_	_	_
penteconter	_	_	_	Т	_	_	T	_	T	_	Τ	T
trireme	_	Τ	_	Т	_	T	T	_	T	Τ	Τ	T
quadrireme	_	С	_	_	_	_	_	_	_	С	С	_
quinquereme	_	С	_	_	_	_	_	_	_	С	С	_

 \mathbf{NB} : -: not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

2.4.6 Support

	BRIT	CART	GAUL	GREE	IBER	KUSH	MACE	MAUR	PERS	PTOL	ROME	SELE
woman	V	V	V	V	V	V	V	V	V	V	V	V
trader	V	V	V	V	V	V	V	V	V	V	V	V
healer	Т	Т	Τ	Т	T	Τ	Τ	Τ	Т	Т	Т	\overline{T}
elephant	_	_	_	_	_	_	_	V	_	_	_	_
slave	_	_	_	_	_	_	_	_	_	_	_	_

 \mathbf{NB} : -: not available for this faction, V: requires village phase, T: requires town phase, C: requires city phase, M: requires metropolis phase, *: only available at some captured structures.

3 Structures

3.1 Civic

class	building costs	pop.	loot	armour	capture	garrison	health	territory	vision
	(s, f, w, m, s; time)	bonus	(s, f, w, m, s; exp)	(c, h, p, t)	\mathbf{points}	capacity		(root/radius/weight)	range
centre, crannog	0, 300, 300, 0, 0; 500	15	60, 60, 60, 0, 0; 250	3, 25, 35, 30	2500	20	3000	1/150/10000	100
(civil center)	(-, 0, 500, 500, 500; 500)	(20)	(-, 0, 200, 200, 200; 200)	(3, 25, 35, -)	(2500)	(20)	(3000)	(1/140/10000)	(90)
pillar	0, 0, 0, 100, 100; 100	0	0, 0, 0, 20, 20; 0	5, 25, 35, 30	_	_	1000	1/50/50000	50
(monument)	(-, 0, 0, 100, 100; 120)	(0)	(-,0,0,25,25;0)	(3, 20, 30, -)	(-)	(-)	(1200)	(1/38/40000)	(60)
(pillar)	(-, 0, 0, 100, 100; 80)	(0)	(-,0,0,25,25;0)	(3, 20, 30, -)	(-)	(-)	(1000)	(1/38/40000)	(40)
temple	0, 0, 100, 100, 300; 300	0	0, 0, 20, 20, 60; 0	5, 25, 35, 30	1000	20	2000	0/50/50000	50
	(-, 0, 0, 0, 300; 200)	(5)	(-, 0, 0, 50, 50; 0)	(3, 20, 30, -)	(500)	(20)	(2000)	(0/40/30000)	(40)
library	0, 0, 150, 150, 450; 400	0	0, 0, 30, 30, 90; 0	5, 25, 35, 30	1000	25	2500	0/50/50000	50
	(-, 0, 0, 200, 200; 200)	(0)	(-, 0, 0, 50, 50; 0)	(3, 20, 30, -)	(500)	(5)	(2000)	(0/50/40000)	(40)
lighthouse	0, 0, 200, 200, 600; 500	0	0, 0, 40, 40, 120; 0	5, 25, 35, 30	1000	(5)	3000	_	200
	(-, 0, 0, 200, 200; 200)	(0)	(-,0,0,50,50;0)	(3, 20, 30, -)	(500)	(5)	(2000)	(0/0/40000)	(180)
theatre	0, 0, 300, 300, 900; 600	0	0, 0, 60, 60, 180; 0	5, 25, 35, 30	1000	(5)	4000	0/100/50000	50
	(-, 0, 0, 500, 500; 500)	(0)	(-,0,0,125,125;0)	(3, 20, 30, -)	(500)	(5)	(2000)	(0/100/40000)	(40)
wonder	0, 0, 1000, 1000, 2000; 1200	0	400, 200, 200, 200, 200; 0	5, 25, 35, 30	3000	50	6000	1/100/65535	50
	(-, 1000, 1000, 1000, 1000; 1000)	(0)	(-, 300, 300, 300, 300; 300)	(3, 15, 25, -)	(2000)	(30)	(5000)	(1/100/65535)	(72)

3.2 Economic

class	building costs	pop.	loot	armour	capture	garrison	health	territory	vision
	(s, f, w, m, s; time)	bonus	(s, f, w, m, s; exp)	(c, h, p, t)	${f points}$	capacity		(root/radius/weight)	range
field	0, 0, 100, 0, 0; 60	0	0, 0, 20, 0, 0; 0	5, 15, 40, 25	100	_	300	_	0
	(-, 0, 100, 0, 0; 50)	(0)	(-, 50, 0, 0, 0; 0)	(5, 15, 40, -)	(500)	(-)	(250)	(-)	(0)
corral	0, 0, 100, 0, 0; 30	0	0, 0, 20, 0, 0; 0	1, 5, 20, 10	300	3	500	_	30
	(-, 0, 100, 0, 0; 50)	(0)	(-, 25, 10, 0, 0; 0)	(1, 1, 20, -)	(500)	(-)	(500)	(0/20/30000)	(20)
storehouse	0, 0, 100, 0, 0; 40	0	0, 0, 20, 0, 0; 0	1, 5, 20, 10	300	4	700	_	30
	(-, 0, 100, 0, 0; 40)	(0)	(-, 0, 10, 0, 0; 0)	(1, 5, 20, -)	(300)	(-)	(800)	(0/20/30000)	(20)
farmstead	0, 0, 100, 0, 0; 50	0	0, 0, 20, 0, 0; 0	1, 5, 20, 10	300	5	900	_	30
	(-, 0, 100, 0, 0; 45)	(0)	(-, 100, 10, 0, 0; 0)	(1, 5, 20, -)	(300)	(-)	(900)	(0/20/30000)	(20)
small house	0, 0, 75, 0, 0; 25	5	0, 0, 15, 0, 0; 0	1, 5, 20, 10	200	3	600	_	30
	(-, 0, 75, 0, 0; 30)	(5)	(-, 0, 10, 0, 0; 0)	(3, 20, 30, -)	(300)	(3)	(800)	(0/16/65535)	(20)
big house	0, 0, 150, 0, 0; 45	10	0, 0, 30, 0, 0; 0	1, 5, 20, 10	400	6	1000	_	30
	(-, 0, 150, 0, 0; 50)	(10)	(-, 0, 20, 0, 0; 0)	(3, 20, 30, -)	(300)	(6)	(1200)	(0/20/40000)	(20)
dock	0, 0, 200, 0, 0; 150	0	0, 0, 40, 0, 0; 0	3, 20, 35, 10	500	5	1500	_	30
	(-, 0, 200, 0, 0; 150)	(5)	(-, 30, 30, 0, 0; 0)	(3, 20, 35, -)	(500)	(1)	(2500)	(-)	(40)
market	0, 0, 300, 0, 0; 120	0	0, 0, 60, 0, 0; 0	1, 5, 20, 10	500	10	1500	_	30
	(-, 0, 300, 0, 0; 150)	(0)	(-, 25, 25, 25, 25; 0)	(1, 5, 20, -)	(500)	(-)	(1500)	(0/40/30000)	(32)
rotary mill	0, 0, 200, 0, 100; 100	0	0, 0, 40, 0, 20; 0	3, 20, 30, 10	300	6	1500	_	30
	(-, 0, 200, 0, 100; 100)	(2)	(-, 50, 25, 0, 15; 0)	(3, 20, 30, -)	(500)	(-)	(2000)	(0/32/40000)	(40)

3.3 Military

class	building costs	pop.	loot	armour	capture	garrison	health	territory	vision
	(s, f, w, m, s; time)	bonus	(s, f, w, m, s; exp)	(c, h, p, t)	${f points}$	capacity		(root/radius/weight)	range
blacksmith	0, 0, 200, 100, 0; 150	0	0, 0, 40, 20, 0; 0	3, 20, 40, 30	500	8	2000	0/40/40000	40
	(-, 0, 200, 0, 0; 200)	(0)	(-, 0, 50, 25, 0; 0)	(3, 20, 35, -)	(500)	(1)	(2000)	(0/38/30000)	(32)
embassy	0, 0, 200, 0, 0; 150	0	0, 0, 40, 0, 0; 0	3, 20, 40, 30	1000	6	2000	0/40/40000	40
	(-, 0, 100, 200, 100; 150)	(0)	(-, 0, 10, 0, 20; 0)	(3, 20, 30, -)	(500)	(6)	(2000)	(0/25/40000)	(24)
kennel	0, 50, 50, 0, 0; 50	0	0, 10, 10, 0, 0; 0	3, 20, 40, 30	250	5	500	0/20/40000	40
	(-, 0, 50, 200, 50; 50)	(0)	(-, 0, 10, 10, 0; 0)	(5, 10, 40, -)	(500)	(5)	(500)	(0/20/30000)	(40)
barracks	0, 100, 300, 0, 0; 150	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	15	2000	0/40/40000	40
	(-, 0, 300, 0, 0; 150)	(0)	(-, 0, 30, 0, 10; 0)	(3, 20, 35, -)	(500)	(10)	(2000)	(0/50/40000)	(32)
practice range	0, 100, 300, 0, 0; 150	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	10	2000	0/40/40000	40
	(-, 0, 300, 0, 0; 150)	(0)	(-, 0, 30, 0, 10; 0)	(3, 20, 35, -)	(500)	(10)	(2000)	(0/50/40000)	(32)
camel stables	0, 100, 300, 0, 0; 150	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	10	2000	0/40/40000	40
	(-, 0, 0, 0, 200; 150)	(0)	(-, 0, 30, 0, 10; 0)	(3, 20, 35, -)	(500)	(10)	(2000)	(0/50/40000)	(32)
cavalry stables	0, 100, 300, 0, 0; 150	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	10	2000	0/40/40000	40
	(-, 0, 0, 0, 200; 150)	(0)	(-, 0, 30, 0, 10; 0)	(3, 20, 35, -)	(500)	(10)	(2000)	(0/50/40000)	(32)
chariot stables	0, 100, 300, 0, 0; 200	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	5	2000	0/40/40000	40
	(-, 0, 0, 0, 200; 150)	(0)	(-, 0, 30, 0, 10; 0)	(3, 20, 35, -)	(500)	(10)	(2000)	(0/50/40000)	(32)
elephant stables	0, 100, 300, 0, 0; 250	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	5	2000	0/40/40000	40
	(-, 0, 0, 200, 200; 300)	(0)	(-, 0, 0, 50, 50; 0)	(3, 20, 35, -)	(500)	(5)	(3000)	(0/38/40000)	(40)
workshop	0, 100, 300, 0, 0; 200	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	2	2000	0/40/40000	40
	(-, 0, 300, 0, 0; 200)	(0)	(-, 0, 75, 0, 0; 0)	(3, 20, 35, -)	(500)	(2)	(2000)	(0/38/40000)	(40)
shipyard	0, 100, 300, 0, 0; 150	0	0, 20, 60, 0, 0; 0	3, 20, 40, 30	1000	5	2000	_	40
(dock)	(-, 0, 200, 0, 0; 150)	(5)	(-, 30, 30, 0, 0; 0)	(3, 20, 35, -)	(500)	(1)	(2500)	(-)	(40)
harbour	0, 100, 400, 100, 200; 500	0	0, 20, 80, 20, 40; 0	3, 20, 40, 30	2500	5	5000	1/200/25000	100
(super dock)	(-, 0, 300, 0, 200; 500)	(10)	(-, 0, 75, 50, 50; 0)	(3, 20, 35, -)	(2000)	(5)	(5000)	(1/200/25000)	(100)

3.4 Defensive

class	building costs	pop.	loot	armour	capture	garrison	health	territory	vision
	(s, f, w, m, s; time)	bonus	(s, f, w, m, s; exp)	(c, h, p, t)	points 500	capacity	750	(root/radius/weight)	range 80
outpost	0, 0, 75, 0, 0; 30	0	0, 0, 15, 0, 0; 0	1, 5, 20, 10	(500)	(1)	(800)	_ (–)	
small tower	(-, 0, 80, 0, 0; 40)	$\frac{(0)}{0}$	$\frac{(-,0,8,0,0;100)}{0,10,20,0,0;0}$	(1, 5, 20, -)	500	$\frac{(1)}{3}$	1000	0/16/30000	$\frac{(80)}{80}$
	0, 50, 100, 0, 50; 90	_		2, 20, 30, 25	(500)		(500)	(0/16/30000)	
(sentry tower)	(-, 0, 100, 0, 0; 40)	(0)	(-, 0, 20, 0, 0; 100)	(1, 20, 25, -)	(/	(3)	\ /	· / /	(80)
large tower	0, 50, 150, 0, 100; 150	0	0, 10, 30, 0, 20; 0	3, 25, 30, 30	500	5	1500	0/32/40000	80
(defense tower)	(-, 0, 100, 0, 100; 150)	(0)	(-, 0, 0, 0, 20; 100)	(3, 25, 30, -)	(500)	(5)	(1000)	(0/32/40000)	(80)
fortress	0, 200, 400, 100, 800; 600	0	0, 40, 80, 20, 160; 0	3, 25, 30, 30	4000	30	6000	1/100/40000	100
	(-, 0, 0, 0, 1000; 500)	(10)	(-, 0, 0, 0, 65; 100)	(6, 25, 40, -)	(4000)	(20)	(4200)	(0/100/40000)	(80)
palisade short	0, 0, 10, 0, 0; 5	0	0, 0, 2, 0, 0; 0	2, 4, 25, 10	500	_	400	_	10
	(-, 0, 4, 0, 0; 5)	(0)	(-, 0, 10, 0, 0; 100)	(2, 4, 25, -)	(1200)	(-)	(250)	(-)	(20)
palisade medium	0, 0, 20, 0, 0; 10	0	0, 0, 4, 0, 0; 0	2, 4, 25, 10	500	_	600	_	10
	(-, 0, 7, 0, 0; 8)	(0)	(-, 0, 10, 0, 0; 100)	(2, 4, 25, -)	(1200)	(-)	(500)	(-)	(20)
palisade long	0, 0, 30, 0, 0; 15	0	0, 0, 6, 0, 0; 0	2, 4, 25, 10	500	_	800	_	10
	(-, 0, 13, 0, 0; 11)	(0)	(-, 0, 10, 0, 0; 100)	(2, 4, 25, -)	(1200)	(-)	(750)	(-)	(20)
palisade gate	0, 0, +20, 0, 0; +5	0	0, 0, 10, 0, 0; 0	2, 4, 25, 10	500	_	1000	_	10
	(-, 0, +20, 0, 0; +5)	(0)	(-, 0, 10, 0, 0; 100)	(2, 4, 25, -)	(1200)	(-)	(637)	(-)	(20)
palisade tower	0, 0, 15, 0, 0; 12	0	0, 0, 3, 0, 0; 0	2, 4, 25, 10	500	_	500	_	10
	(-, 0, 5, 0, 0; 7)	(0)	(-, 0, 10, 0, 0; 100)	(2, 4, 25, -)	(1200)	(-)	(750)	(-)	(20)
siege wall short	0, 0, 30, 0, 0; 15	0	0, 0, 6, 0, 0; 0	5, 15, 35, 25	1000	1	1000	_	20
	(-, 0, 20, 0, 0; 15)	(0)	(-, 0, 15, 0, 0; 100)	(5, 15, 35, -)	(1200)	(-)	(750)	(-)	(20)
siege wall medium	0, 0, 60, 0, 0; 30	0	0, 0, 12, 0, 0; 0	5, 15, 35, 25	1000	3	1500	_	20
	(-, 0, 40, 0, 0; 30)	(0)	(-, 0, 15, 0, 0; 100)	(5, 15, 35, -)	(1200)	(3)	(1500)	(-)	(20)
siege wall long	0, 0, 90, 0, 0; 45	0	0, 0, 18, 0, 0; 0	5, 15, 35, 25	1000	5	2000	_	20
	(-, 0, 60, 0, 0; 45)	(0)	(-, 0, 15, 0, 0; 100)	(5, 15, 35, -)	(1200)	(5)	(2250)	(-)	(20)
siege wall gate	0, 0, +30, +30, 0; +15	0	0, 0, 24, 6, 0; 0	5, 15, 35, 25	1000	_	1700	_	20
	(-, 0, +80, 0, 0; +10)	(0)	(-, 0, 15, 0, 0; 100)	(5, 15, 35, -)	(1200)	(-)	(1912)	(-)	(20)
siege wall tower	0, 0, 120, 0, 0; 60	0	0, 0, 24, 0, 0; 0	5, 15, 35, 25	1000	2	2500	_	(60)
	(-, 0, 100, 0, 0; 80)	(0)	(-, 0, 15, 0, 0; 100)	(5, 15, 35, -)	(1200)	(2)	(3000)	(-)	(60)
city wall short	0, 0, 15, 0, 45; 30	0	0, 0, 3, 0, 9; 0	3, 25, 30, 30	1500	1	2000	0/20/65535	30
v	(-, 0, 0, 0, 15; 15)	(0)	(-, 0, 0, 0, 15; 100)	(3, 25, 30, -)	(1200)	(-)	(1000)	(0/20/65535)	(20)
city wall medium	0, 0, 30, 0, 90; 45	0	0, 0, 6, 0, 18; 0	3, 25, 30, 30	1500	3	3000	0/20/65535	30
V	(-, 0, 0, 0, 22; 30)	(0)	(-, 0, 0, 0, 15; 100)	(3, 25, 30, -)	(1200)	(3)	(2000)	(0/20/65535)	(20)
city wall long	0, 0, 45, 0, 135; 60	0	0, 0, 9, 0, 27; 0	3, 25, 30, 30	1500	5	4000	0/20/65535	30
	(-, 0, 0, 0, 28; 45)	(0)	(-, 0, 0, 0, 15; 100)	(3, 25, 30, -)	(1200)	(5)	(3000)	(0/20/65535)	(20)
city wall gate	0, 0, +30, +30, 0; +15	0	0, 0, 18, 6, 36; 0	3, 25, 30, 30	1500	-	3400	0/20/65535	30
,	(-, 0, 0, 0, +60; +10)	(0)	(-, 0, 0, 0, 15; 100)	(3, 25, 30, -)	(1200)	(-)	(2550)	(0/20/65535)	(20)
city wall tower	0, 0, 60, 0, 180; 90	0	0, 0, 12, 0, 36; 0	3, 25, 30, 30	1500	2	5000	0/20/65535	$\frac{(20)}{(60)}$
city wan tower	(-, 0, 0, 0, 90; 80)	(0)	(-, 0, 0, 0, 15; 100)	(3, 25, 30, -)	(1200)	(2)	(4000)	(0/20/65535)	(60)
	(,0,0,0,0,0)	(0)	(, 0, 0, 0, 10, 100)	(0, 20, 30, -)	(1200)	(2)	(4000)	(0/20/0000)	(00)

4 Technologies and auras

4.1 Unit auras

- \bullet Camel Stench (15 m): enemy cavalry -20% attack damage and capture strength.
- Chariot Noise (12 m): enemy infantry -15% attack damage and capture strength.
- Elephant Intimidation (10 m): enemy soldiers -10% attack damage and capture strength.
- Merchant Convoy (20 m): own naval traders +2.0 pierce armour.
- Trader Caravan (10 m): own land traders +2.0 pierce armour.

4.2 Class bonuses

- Champion: +200% silver cost, +100% training time, +50% health, +2.0 armour levels, +100% capture attack strength, and +100% melee and ranged attack damage.
- Veteran: +50% silver cost, +50% training time, +20% health, +1.0 armour levels, +50% capture attack strength, and +50% melee and ranged attack damage.
- Mercenary: +100% silver cost, 0 other resource costs, -50% training time, +10% health, +15% capture attack strength, and +15% melee and ranged attack damage.
- Cataphract: +20% silver cost, +2.0z armour levels, and -5% movement speed.
- Fanatic: -4 armour levels, +15% melee attack damage, and +30% movement speed.
- Balearic: -10% health, +5% ranged attack damage, -10% reload time, -10% spread, and +5% movement speed.
- Cretan: -20% ranged attack spread.
- Libyan: -5\% health, +5\% ranged attack damage, -5\% reload time, and +5\% movement speed.
- Numidian: -10% health, +5% ranged attack damage, -10% reload time, -10% spread, and +5% movement speed.
- Rhodian: -20% ranged attack spread.

4.3 Civilization bonuses

All bonuses and penalties from the default distribution have been removed.

- Celtic Architecture (Britons, Gauls): all structures -20% build time, -10% health; temples -50% stone cost, +100% wood cost.
- Greek Architecture (Greeks, Macedonians, Seleucids): civic structures +20% health.
- Egyptian Architecture (Kushites, Ptolemies): economic structures -75% wood cost, +100% build time; military structures -50% wood cost, +50% build time; fortresses +25% build time, +10% health.
- Indian Architecture (Mauryas): city walls and temples 0 stone cost, +200% wood cost, -30% build time, -20% health.
- Indian Training (Mauryas): elephants -20% training time.
- Iberian Architecture (Iberians): centres -10% build time, -5% health; large towers +20% stone and wood costs, +10% build time, +30% health.
- Persian Architecture (Persians): economic structures +20% health.
- **Persian Training** (Persians): archers -20% training time.
- Punic Architecture (Carthaginians): city walls +20% stone cost, +20% build time, +30% health; fortresses +10% stone cost, +10% build time, +20% health; markets -50% wood cost.
- Punic Training (Carthaginians): traders -20% training time.
- Roman Architecture (Romans): city walls +10% health; military structures -10% build time.
- Roman Training (Romans): siege weapons -20% construction time.

4.4 Team bonuses

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