

0 A.D. is Actually Before Christ
<https://github.com/0abc/0abc-a23.git>

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

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1 Introduction

0abc 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).

0abc 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/0abc/0abc-a23.git` to get the repository directly or download it as a zip via `https://github.com/0abc/0abc-a22/archive/master.zip`
- Place it in your `/0ad/mods/` folder:
 - GNU/Linux (e.g. Fedora) typically: `~/.local/share/0ad/mods/`
 - Macintosh/Apple OS X typically: `~/Library/Application\ Support/0ad/mods/`
 - Microsoft Windows typically: `~\Documents\My Games\0ad\mods\`
- Launch 0 A.D., click “Settings” and “Mod Selection”
- Select **0abc**, 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

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

2.2 Counters

unit	new penalties	new bonuses	restricted
war dogs	–	–	Ships, Siege, Stru
infantry archers	0.5× vs Elephantry	–	–
infantry axe throwers	–	–	–
infantry crossbowmen	0.75× vs Elephantry	–	–
infantry longbowmen	0.5× vs Elephantry	–	–
infantry javelinists	–	–	–
infantry lead slingers	–	–	–
infantry stone slingers	–	–	–
infantry axemen	–	–	–
infantry hoplites	–	–	–
infantry longswordsmen	–	–	–
infantry macemen	–	–	–
infantry pikemen	–	–	–
infantry sabremen	–	–	–
infantry spearmen	–	–	–
infantry swordsmen	–	–	–
camel archers	0.5× vs Elephantry	–	–
camel javelinists	–	–	–
camel spearmen	0.5× vs Elephantry	–	–
cavalry archers	0.5× vs Elephantry	–	–
cavalry crossbowmen	0.75× vs Elephantry	–	–
cavalry javelinists	–	–	–
cavalry axemen	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
cavalry lancers	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
cavalry macemen	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
cavalry sabremen	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
cavalry spearmen	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
cavalry swordsmen	0.75× vs Camelry, 0.75× vs Chariotry, 0.5× vs Elephantry	–	–
biga archers	0.5× vs Elephantry	–	Ships, Siege, Stru
biga javelinists	–	–	Ships, Siege, Stru
quadriga archers	0.5× vs Elephantry	–	Ships, Siege, Stru
war elephants	–	–	–
bolt shooter	–	–	–
stone thrower	–	2.0× vs Ships	–
battering ram	–	2.0× vs Defensive	Organic
siege tower	–	–	–

2.3 Infantry

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
infantry	1	0, 25, 35, 15, 0; 20	60/100	75	11.0	60	2, 2, 2, 2	0, 0, 5, 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	0, 25, 30, 20, 0; 20	60/100	75	11.0	60	2, 2, 2, 2	2, 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	0, 25, 25, 25, 0; 20	60/100	75	11.0	60	2, 2, 2, 2	0, 0, 5, 0	1000	60	
crossbowman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(9.9)	(50)	(10, 1, 1, -)	(0, 0, 6, -)	(1000)	(72)	
infantry	1	0, 25, 45, 5, 0; 20	60/100	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	0, 25, 20, 30, 0; 20	60/100	75	11.0	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	0, 25, 40, 10, 0; 20	60/100	75	11.0	60	2, 2, 2, 2	0, 0, 5, 0	1000	60	
longbowman	(1)	(-, 50, 50, 0, 0; 10)	(100/100)	(80)	(9.9)	(50)	(10, 1, 1, -)	(0, 0, 6, -)	(1000)	(72)	
infantry	1	0, 25, 40, 0, 10; 20	60/100	75	11.0	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	0, 25, 35, 15, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	2, 4, 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	0, 25, 10, 40, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	0, 1, 0, 5	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	0, 25, 20, 30, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	0, 4, 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	0, 25, 15, 35, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	6, 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	0, 25, 45, 5, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	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)	
infantry	1	0, 25, 30, 20, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	0, 6, 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	0, 25, 40, 10, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	0, 0, 0, 6	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	0, 25, 25, 25, 0; 20	60/100	75	10.0	90	4, 4, 4, 4	0, 3, 0, 3	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)	

2.4 Camelry

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
camel	2	0, 60, 30, 10, 0; 25	90/125	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	0, 60, 35, 5, 0; 25	90/125	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	0, 60, 25, 15, 0; 25	90/125	85	18.0	135	2, 2, 2, 2	0, 0, 0, 8	1000	3	
spearman	(1)	(−, 100, 50, 0, 0; 15)	(130/150)	(92)	(19.305)	(160)	(15, 4, 3, −)	(0, 6, 5, −)	(2000)	(4.5)	

2.5 Cavalry

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
cavalry	2	0, 75, 35, 15, 0; 30	120/150	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	0, 75, 25, 25, 0; 30	120/150	80	15.0	120	1, 1, 1, 1	0, 0, 9, 0	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	0, 75, 45, 5, 0; 30	120/150	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	0, 75, 40, 10, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	2, 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	0, 75, 10, 40, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	1, 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)	
cavalry	2	0, 75, 5, 45, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	7, 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	0, 75, 20, 30, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	0, 8, 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	0, 75, 30, 20, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	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)	
cavalry	2	0, 75, 15, 35, 0; 30	120/150	80	15.0	150	3, 3, 3, 3	0, 6, 0, 2	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)	

2.6 Chariotry

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
biga	4	0, 150, 90, 60, 0; 40	180/210	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	0, 150, 100, 50, 0; 40	180/210	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	0, 250, 120, 80, 0; 50	240/240	85	17.0	360	6, 6, 6, 6	0, 0, 8, 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)	

2.7 Elephantry

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
war elephant	6 (3)	0, 300, 150, 150, 0; 60 (-, 250, 0, 250, 0; 30)	360/300 (150/-)	90 (100)	12.0 (8.45)	600 (750)	20, 5, 15, 10 (25, 10, 10, -)	60, 0, 0, 0 (150, 20, 0, -)	1000 (1500)	6 (8)	

2.8 Dogs

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
war dog	0 (0)	0, 30, 0, 0, 0; 10 (-, 100, 0, 0, 0; 15)	15/30 (100/100)	30 (30)	14.0 (14.40)	30 (90)	1, 1, 2, 1 (1, 1, 2, -)	0, 0, 6, 0 (0, 7, 2, -)	1000 (1000)	2 (3)	

2.9 Support

class	pop. size	training costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
woman (female citizen)	1 (1)	0, 25, 0, 0, 0; 25 (-, 50, 0, 0, 0; 8)	-/- (10/-)	60 (32)	9.0 (9.0)	45 (25)	1, 1, 1, 1 (1, 1, 1, -)	1, 1, 1, 1 (0, 2, 0, -)	1000 (1000)	2 (3)	build rate: - (1.0)
slave	1 (0)	50, 0, 0, 0, 0; 25 (-, 0, 0, 50, 0; 20)	-/- (10/-)	60 (12)	9.0 (9.0)	45 (100)	1, 1, 1, 1 (1, 1, 1, -)	- (-)	- (-)	- (-)	build rate: 0.5 (0.5)
healer	1 (1)	50, 25, 0, 0, 0; 25 (-, 250, 0, 0, 0; 8)	25/200 (10/150)	60 (30)	9.0 (9.0)	75 (85)	1, 1, 1, 1 (1, 1, 1, -)	heal 1 HP (heal 5 HP)	500 (2000)	12 (12)	
trader	1 (1)	0, 50, 50, 50, 0; 25 (-, 100, 0, 80, 0; 15)	-/- (10/-)	60 (60)	9.0 (9.0)	100 (100)	1, 1, 1, 1 (1, 1, 1, -)	- (-)	- (-)	- (-)	trade gain: 0.75 (0.75)
worker elephant	3 (1)	0, 150, 0, 0, 0; 25 (-, 150, 0, 0, 0; 20)	-/- (50/-)	60 (50)	5.4 (5.4)	450 (300)	9, 3, 7, 5 (10, 5, 8, -)	- (-)	- (-)	- (-)	build rate: 2.0 (2.0)

2.10 Siege weapons

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

2.11 Ships

class	pop. size	construction costs (s, f, w, m, s; time)	exp. loot/up	vision range	walk speed	health	armour (c, h, p, t)	damage (c, h, p, t)	rate (ms)	range (m)	other stats
fishing boat	0 (1)	0, 15, 60, 0, 0; 15 (-, 0, 50, 0, 0; 20)	-/- (1/-)	75 (30)	12.0 (9.9)	150 (200)	2, 2, 4, 2 (2, 2, 5, -)	0, 0, 0, 10 (0, 10, 0, -)	1000 (1000)	5 (5)	garrison capacity: 1 (1) food capacity: 60 (40)
merchant ship	0 (1)	0, 30, 120, 60, 0; 25 (-, 0, 0, 100, 0; 20)	-/- (25/-)	90 (50)	11.0 (12.15)	600 (400)	3, 3, 6, 3 (2, 2, 5, -)	- (-)	- (-)	- (-)	garrison capacity: 15 (15) trade gain: 0.75 (0.75)
fireship	0 (1)	0, 0, 150, 0, 0; 15 (-, 0, 50, 0, 0; 30)	-/- (-/-)	60 (60)	13.0 (14.4)	450 (500)	4, 4, 8, 4 (5, 5, 10, -)	5, 5, 5, 5 (10, 10, 10, -)	100 (100)	10 (8)	regeneration: -5 (-6); death damage
barge	0 (3)	0, 50, 250, 100, 0; 45 (-, 0, 150, 150, 0; 40)	-/- (100/-)	120 (90)	10.0 (14.58)	1800 (1600)	5, 5, 10, 5 (5, 5, 10, -)	0, 0, 5, 0 (0, 0, 35, -)	1000 (2000)	60 (55)	garrison capacity: 45 (40) arrow count: 3-24 (3-13)
triaconter (light warship)	0 (2)	0, 60, 60, 30, 0; 20 (-, 0, 125, 50, 0; 20)	-/- (75/-)	105 (90)	10.0 (13.95)	300 (800)	5, 5, 10, 5 (5, 5, 10, -)	0, 0, 6, 0 (0, 0, 35, -)	1000 (2000)	60 (45)	garrison capacity: 5 (20) arrow count: 1-3 (2-10)
penteconter (light warship)	0 (2)	0, 100, 100, 50, 0; 30 (-, 0, 125, 50, 0; 20)	-/- (75/-)	105 (90)	9.5 (13.95)	500 (800)	5, 5, 10, 5 (5, 5, 10, -)	0, 0, 6, 0 (0, 0, 35, -)	1000 (2000)	60 (45)	garrison capacity: 10 (20) arrow count: 1-5 (2-10)
bireme (medium warship)	0 (3)	0, 200, 200, 100, 0; 40 (-, 0, 150, 150, 0; 25)	-/- (100/-)	105 (90)	9.0 (16.2)	1000 (1400)	6, 6, 12, 6 (5, 5, 10, -)	0, 0, 6, 0 (0, 0, 35, -)	1000 (2000)	60 (55)	garrison capacity: 20 (30) arrow count: 2-10 (3-13)
trireme (medium warship)	0 (3)	0, 300, 300, 150, 0; 50 (-, 0, 150, 150, 0; 25)	-/- (100/-)	105 (90)	8.5 (16.2)	1500 (1400)	6, 6, 12, 6 (5, 5, 10, -)	0, 0, 6, 0 (0, 0, 35, -)	1000 (2000)	60 (55)	garrison capacity: 30 (30) arrow count: 3-15 (3-13)
quadrireme (medium warship)	0 (3)	0, 400, 400, 200, 0; 60 (-, 0, 150, 150, 0; 25)	-/- (100/-)	105 (90)	8.0 (16.2)	2000 (1400)	6, 6, 12, 6 (5, 5, 10, -)	0, 0, 6, 0 (0, 0, 35, -)	1000 (2000)	60 (55)	garrison capacity: 40 (30) arrow count: 4-20 (3-13)
quinquereme (heavy warship)	0 (3)	0, 500, 500, 250, 0; 70 (-, 0, 350, 200, 350; 30)	-/- (150/-)	105 (110)	7.5 (16.2)	2500 (2000)	7, 7, 14, 7 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 50 (50) arrow count: 5-25 (1-10)
sexireme (heavy warship)	0 (3)	0, 600, 600, 300, 0; 80 (-, 0, 350, 200, 350; 30)	-/- (150/-)	105 (110)	7.0 (16.2)	3000 (2000)	7, 7, 14, 7 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 60 (50) arrow count: 6-30 (1-10)
septireme (heavy warship)	0 (3)	0, 700, 700, 350, 0; 90 (-, 0, 350, 200, 350; 30)	-/- (150/-)	105 (110)	6.5 (16.2)	3500 (2000)	7, 7, 14, 7 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 70 (50) arrow count: 7-35 (1-10)
octoreme (juggernaut)	0 (5)	0, 800, 800, 400, 0; 100 (-, 0, 400, 300, 350; 60)	-/- (200/-)	105 (110)	6.0 (16.2)	4000 (4000)	8, 8, 16, 8 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 80 (100) arrow count: 8-40 (1-10)
novireme (juggernaut)	0 (5)	0, 900, 900, 450, 0; 110 (-, 0, 400, 300, 350; 60)	-/- (200/-)	105 (110)	5.5 (16.2)	4500 (4000)	8, 8, 16, 8 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 90 (100) arrow count: 9-45 (1-10)
decereme (juggernaut)	0 (5)	0, 1000, 1000, 500, 0; 120 (-, 0, 400, 300, 350; 60)	-/- (200/-)	105 (110)	5.0 (16.2)	5000 (4000)	8, 8, 16, 8 (5, 5, 10, -)	0, 0, 6, 0 (100, 0, 10, -)	1000 (5000)	60 (10-72)	garrison capacity: 100 (100) arrow count: 10-50 (1-10)

3 Structures

3.1 Civic

class	building costs (s, f, w, m, s; time)	pop. bonus	loot (s, f, w, m, s; exp)	armour (c, h, p, t)	capture points	garrison capacity	health	territory (root/radius/weight)	vision range
centre, crannog (civil center)	0, 0, 500, 500, 500; 500 (-, 0, 500, 500, 500; 500)	25 (20)	60, 60, 60, 0, 0; 250 (-, 0, 200, 200, 200; 200)	3, 25, 35, 30 (3, 25, 35, -)	2500 (2500)	25 (20)	3000 (3000)	1/150/10000 (1/140/10000)	100 (90)
small house	0, 0, 75, 0, 0; 30 (-, 0, 75, 0, 0; 30)	5 (5)	0, 0, 10, 0, 0; 0 (-, 0, 10, 0, 0; 0)	3, 20, 30, 25 (3, 20, 30, -)	300 (300)	3 (3)	750 (800)	0/10/40000 (0/16/65535)	20 (20)
big house	0, 0, 150, 0, 0; 50 (-, 0, 150, 0, 0; 50)	10 (10)	0, 0, 20, 0, 0; 0 (-, 0, 20, 0, 0; 0)	3, 20, 30, 25 (3, 20, 30, -)	300 (300)	6 (6)	1200 (1200)	0/20/40000 (0/20/40000)	20 (20)
blacksmith	0, 0, 200, 100, 0; 150 (-, 0, 200, 0, 0; 200)	0 (0)	0, 0, 40, 20, 0; 0 (-, 0, 50, 25, 0; 0)	3, 20, 30, 25 (3, 20, 35, -)	500 (500)	10 (1)	2000 (2000)	0/30/40000 (0/38/30000)	40 (32)
temple	0, 0, 100, 0, 300; 200 (-, 0, 0, 0, 300; 200)	0 (5)	40, 0, 20, 0, 60; 0 (-, 0, 0, 50, 50; 0)	3, 20, 30, 25 (3, 20, 30, -)	500 (500)	20 (20)	2000 (2000)	0/40/40000 (0/40/30000)	40 (40)
library	(-, 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; 200)	(0)	(-, 0, 0, 50, 50; 0)	(3, 20, 30, -)	(500)	(5)	(2000)	(0/0/40000)	(180)
monument	(-, 0, 0, 100, 100; 120)	(0)	(-, 0, 0, 25, 25; 0)	(3, 20, 30, -)	(-)	(-)	(1200)	(1/38/40000)	(60)
palace (apadana)	(-, 0, 0, 200, 300; 300)	(10)	(-, 0, 0, 50, 75; 0)	(3, 20, 30, -)	(500)	(10)	(3000)	(1/48/40000)	(40)
pillar	(-, 0, 0, 100, 100; 80)	(0)	(-, 0, 0, 25, 25; 0)	(3, 20, 30, -)	(-)	(-)	(1000)	(1/38/40000)	(40)
rotary mill	(-, 0, 200, 0, 100; 100)	(2)	(-, 50, 25, 0, 15; 0)	(3, 20, 30, -)	(500)	(-)	(2000)	(0/32/40000)	(40)
theatre	(-, 0, 0, 500, 500; 500)	(0)	(-, 0, 0, 125, 125; 0)	(3, 20, 30, -)	(500)	(5)	(2000)	(0/100/40000)	(40)
wonder	0, 1000, 1000, 1000, 1000; 1200 (-, 1000, 1000, 1000, 1000; 1000)	0 (0)	400, 200, 200, 200, 200; 0 (-, 300, 300, 300, 300; 300)	3, 15, 25, 20 (3, 15, 25, -)	2000 (2000)	50 (30)	5000 (5000)	1/100/65535 (1/100/65535)	100 (72)

3.2 Economic

class	building costs (s, f, w, m, s; time)	pop. bonus	loot (s, f, w, m, s; exp)	armour (c, h, p, t)	capture points	garrison capacity	health	territory (root/radius/weight)	vision range
corral	(-, 0, 100, 0, 0; 50)	(0)	(-, 25, 10, 0, 0; 0)	(1, 20, 1, -)	(500)	(-)	(500)	(0/20/30000)	(20)
field	(-, 0, 100, 0, 0; 50)	(0)	(-, 50, 0, 0, 0; 0)	(5, 15, 40, -)	(500)	(-)	(250)	(-)	(0)
farmstead	(-, 0, 100, 0, 0; 45)	(0)	(-, 100, 10, 0, 0; 0)	(1, 5, 20, -)	(300)	(-)	(900)	(0/20/30000)	(20)
storehouse	(-, 0, 100, 0, 0; 40)	(0)	(-, 0, 10, 0, 0; 0)	(1, 5, 20, -)	(300)	(-)	(800)	(0/20/30000)	(20)
dock	(-, 0, 200, 0, 0; 150)	(5)	(-, 30, 30, 0, 0; 0)	(3, 20, 35, -)	(500)	(1)	(2500)	(-)	(40)
(market)	(-, 0, 300, 0, 0; 150)	(0)	(-, 25, 25, 25, 25; 0)	(1, 5, 20, -)	(500)	(-)	(1500)	(0/40/30000)	(32)

3.3 Military

class	building costs (s, f, w, m, s; time)	pop. bonus	loot (s, f, w, m, s; exp)	armour (c, h, p, t)	capture points	garrison capacity	health	territory (root/radius/weight)	vision range
army camp	(−, 0, 500, 0, 0; 250)	(5)	(−, 0, 100, 0, 0; 100)	(2, 15, 25, −)	(1500)	(40)	(2500)	(−)	(60)
barracks	(−, 0, 300, 0, 0; 150)	(0)	(−, 0, 30, 0, 10; 0)	(3, 20, 35, −)	(500)	(10)	(2000)	(0/50/40000)	(32)
cavalry stables	(−, 0, 0, 0, 200; 150)	(0)	(−, 0, 30, 0, 10; 0)	(3, 20, 35, −)	(500)	(10)	(2000)	(0/50/40000)	(32)
elephant stables	(−, 0, 0, 200, 200; 300)	(0)	(−, 0, 0, 50, 50; 0)	(3, 20, 35, −)	(500)	(5)	(3000)	(0/38/40000)	(40)
kennel	(−, 0, 50, 200, 50; 50)	(0)	(−, 0, 10, 10, 0; 0)	(5, 10, 40, −)	(500)	(5)	(500)	(0/20/30000)	(40)
workshop	(−, 0, 300, 0, 0; 200)	(0)	(−, 0, 75, 0, 0; 0)	(3, 20, 35, −)	(500)	(2)	(2000)	(0/38/40000)	(40)
shipyard (dock)	(−, 0, 200, 0, 0; 150)	(5)	(−, 30, 30, 0, 0; 0)	(3, 20, 35, −)	(500)	(1)	(2500)	(−)	(40)
harbour (cothon)	(−, 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 (s, f, w, m, s; time)	pop. bonus	loot (s, f, w, m, s; exp)	armour (c, h, p, t)	capture points	garrison capacity	health	territory (root/radius/weight)	vision range
outpost	(−, 0, 80, 0, 0; 40)	(0)	(−, 0, 8, 0, 0; 100)	(1, 5, 20, −)	(500)	(1)	(800)	(−)	(80)
sentry tower	(−, 0, 100, 0, 0; 40)	(0)	(−, 0, 20, 0, 0; 100)	(1, 20, 25, −)	(500)	(3)	(500)	(0/16/30000)	(80)
stone tower	(−, 0, 100, 0, 100; 150)	(0)	(−, 0, 0, 0, 20; 100)	(3, 25, 30, −)	(500)	(5)	(1000)	(0/32/40000)	(80)
fortress	(−, 0, 0, 0, 1000; 500)	(10)	(−, 0, 0, 0, 65; 100)	(6, 25, 40, −)	(4000)	(20)	(4200)	(0/100/40000)	(80)
palisade short	(−, 0, 4, 0, 0; 5)	(0)	(−, 0, 10, 0, 0; 100)	(2, 4, 25, −)	(1200)	(−)	(250)	(0/20/65535)	(20)
palisade medium	(−, 0, 7, 0, 0; 8)	(0)	(−, 0, 10, 0, 0; 100)	(2, 4, 25, −)	(1200)	(3)	(500)	(0/20/65535)	(20)
palisade long	(−, 0, 13, 0, 0; 11)	(0)	(−, 0, 10, 0, 0; 100)	(2, 4, 25, −)	(1200)	(5)	(750)	(0/20/65535)	(20)
palisade gate	(−, 0, +20, 0, 0; +5)	(0)	(−, 0, 10, 0, 0; 100)	(2, 4, 25, −)	(1200)	(−)	(637)	(0/20/65535)	(20)
palisade turret	(−, 0, 5, 0, 0; 7)	(0)	(−, 0, 10, 0, 0; 100)	(2, 4, 25, −)	(1200)	(−)	(750)	(0/20/65535)	(20)
siege wall short	(−, 0, 20, 0, 0; 15)	(0)	(−, 0, 15, 0, 0; 100)	(5, 15, 35, −)	(1200)	(−)	(750)	(0/20/65535)	(20)
siege wall medium	(−, 0, 40, 0, 0; 30)	(0)	(−, 0, 15, 0, 0; 100)	(5, 15, 35, −)	(1200)	(3)	(1500)	(0/20/65535)	(20)
siege wall long	(−, 0, 60, 0, 0; 45)	(0)	(−, 0, 15, 0, 0; 100)	(5, 15, 35, −)	(1200)	(5)	(2250)	(0/20/65535)	(20)
siege wall gate	(−, 0, +80, 0, 0; +10)	(0)	(−, 0, 15, 0, 0; 100)	(5, 15, 35, −)	(1200)	(−)	(2550)	(0/20/65535)	(20)
siege wall turret	(−, 0, 100, 0, 0; 80)	(0)	(−, 0, 15, 0, 0; 100)	(5, 15, 35, −)	(1200)	(2)	(3000)	(0/20/65535)	(60)
stone wall short	(−, 0, 0, 0, 15; 15)	(0)	(−, 0, 0, 0, 15; 100)	(3, 25, 30, −)	(1200)	(−)	(1000)	(0/20/65535)	(20)
stone wall medium	(−, 0, 0, 0, 22; 30)	(0)	(−, 0, 0, 0, 15; 100)	(3, 25, 30, −)	(1200)	(3)	(2000)	(0/20/65535)	(20)
stone wall long	(−, 0, 0, 0, 28; 45)	(0)	(−, 0, 0, 0, 15; 100)	(3, 25, 30, −)	(1200)	(5)	(3000)	(0/20/65535)	(20)
stone wall gate	(−, 0, 0, 0, +60; +10)	(0)	(−, 0, 0, 0, 15; 100)	(3, 25, 30, −)	(1200)	(−)	(1912)	(0/20/65535)	(20)
stone wall turret	(−, 0, 0, 0, 90; 80)	(0)	(−, 0, 0, 0, 15; 100)	(3, 25, 30, −)	(1200)	(2)	(4000)	(0/20/65535)	(60)