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

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

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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
- \bullet 3: worker elephants
- \bullet 4: bigae, battering rams, bolt shooters, stone throwers
- 5: -
- $\bullet\,$ 6: quadrigae, war elephants, siege towers

2.2 Counters

| $\begin{array}{c ccccccccccccccccccccccccccccccccccc$ | iips, Siege, Stru |
|---|-------------------|
| $\begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| cavalry lancers $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry – cavalry macemen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry – cavalry sabremen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry – | |
| cavalry macemen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry – cavalry sabremen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry – – | |
| cavalry sabremen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry $-$ | |
| cavalry sabremen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry $-$ | |
| | |
| | |
| cavalry swordsmen $0.75 \times$ vs Camelry, $0.75 \times$ vs Chariotry, $0.5 \times$ vs Elephantry $-$ | |
| | nips, Siege, Stru |
| | nips, Siege, Stru |
| | nips, Siege, Stru |
| war elephants – – – | 1, |
| bolt shooter – – – | |
| stone thrower $ 2.0 \times$ vs Ships $-$ | i i |
| | |
| siege tower – – – | rganic |

2.3 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 | 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

| ${f class}$ | 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 | 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. | 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 |
| 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. | 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 |
| 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

| ${f class}$ | pop. | training costs | \exp . | vision | walk | \mathbf{health} | armour | $_{ m damage}$ | \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 | 6 | 0, 300, 150, 150, 0; 60 | 360/300 | 90 | 12.0 | 600 | 20, 5, 15, 10 | 60, 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) | |

2.8 Dogs

| ${f class}$ | pop. | training costs | \exp . | vision | \mathbf{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; 10 | 15/30 | 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) | |

2.9 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 | 0, 25, 0, 0, 0; 25 | -/- | 60 | 9.0 | 45 | 1, 1, 1, 1 | 1, 1, 1, 1 | 1000 | 2 | 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; 25 | -/- | 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, 25, 0, 0, 0; 25 | 25/200 | 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; 25 | -/- | 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; 25 | -/- | 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, -) | (-) | (-) | (-) | |

2.10 Siege weapons

| class | pop. | construction costs | exp. | vision range | walk | \mathbf{health} | armour | 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; 30 | 0/- | 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; 40 | 0/- | 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; 20 | 0/- | 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; 60 | 0/- | 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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2.11 Ships

| class | pop. | construction 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 |
| fishing | 0 | 0, 15, 60, 0, 0; 15 | -/- | 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; 25 | -/- | 90 | 11.0 | 600 | 3, 3, 6, 3 | _ | _ | _ | garrison capacity: 15 (15) |
| $_{ m ship}$ | (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; 45 | -/- | 120 | 10.0 | 1800 | 5, 5, 10, 5 | 0, 0, 5, 0 | 1000 | 60 | garrison capacity: 45 (40) |
| | (3) | (-, 0, 150, 150, 0; 40) | (100/-) | (90) | (14.58) | (1600) | (5, 5, 10, -) | (0, 0, 35, -) | (2000) | (55) | arrow count: 3–24 (3–13) |
| triaconter | 0 | 0, 60, 60, 30, 0; 20 | -/- | 105 | 10.0 | 300 | 5, 5, 10, 5 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 5 (20) |
| (light warship) | (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; 30 | -/- | 105 | 9.5 | 500 | 5, 5, 10, 5 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 10 (20) |
| (light warship) | (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) |
| bireme | 0 | 0, 200, 200, 100, 0; 40 | -/- | 105 | 9.0 | 1000 | 6, 6, 12, 6 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 20 (30) |
| (medium warship) | (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) |
| trireme | 0 | 0, 300, 300, 150, 0; 50 | -/- | 105 | 8.5 | 1500 | 6, 6, 12, 6 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 30 (30) |
| (medium warship) | (3) | (-, 0, 150, 150, 0; 25) | (100/-) | (90) | (16.2) | (1400) | (5, 5, 10, -) | (0, 0, 35, -) | (2000) | (55) | arrow count: 3–15 (3–13) |
| quadrireme | 0 | 0, 400, 400, 200, 0; 60 | -/- | 105 | 8.0 | 2000 | 6, 6, 12, 6 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 40 (30) |
| (medium warship) | (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; 70 | -/- | 105 | 7.5 | 2500 | 7, 7, 14, 7 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 50 (50) |
| (heavy warship) | (3) | (-, 0, 350, 200, 350; 30) | (150/-) | (110) | (16.2) | (2000) | (5, 5, 10, -) | (100, 0, 10, -) | (5000) | (10-72) | arrow count: 5–25 (1–10) |
| sexireme | 0 | 0, 600, 600, 300, 0; 80 | -/- | 105 | 7.0 | 3000 | 7, 7, 14, 7 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 60 (50) |
| (heavy warship) | (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) |
| septireme | 0 | 0, 700, 700, 350, 0; 90 | -/- | 105 | 6.5 | 3500 | 7, 7, 14, 7 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 70 (50) |
| (heavy warship) | (3) | (-, 0, 350, 200, 350; 30) | (150/-) | (110) | (16.2) | (2000) | (5, 5, 10, -) | (100, 0, 10, -) | (5000) | (10-72) | arrow count: 7–35 (1–10) |
| octoreme | 0 | 0, 800, 800, 400, 0; 100 | -/- | 105 | 6.0 | 4000 | 8, 8, 16, 8 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 80 (100) |
| (juggernaut) | (5) | (-, 0, 400, 300, 350; 60) | (200/-) | (110) | (16.2) | (4000) | (5, 5, 10, -) | (100, 0, 10, -) | (5000) | (10-72) | arrow count: 8–40 (1–10) |
| novireme | 0 | 0, 900, 900, 450, 0; 110 | -/- | 105 | 5.5 | 4500 | 8, 8, 16, 8 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 90 (100) |
| (juggernaut) | (5) | (-, 0, 400, 300, 350; 60) | (200/-) | (110) | (16.2) | (4000) | (5,5,10,-) | (100, 0, 10, -) | (5000) | (10-72) | arrow count: 9–45 (1–10) |
| decereme | 0 | 0, 1000, 1000, 500, 0; 120 | -/- | 105 | 5.0 | 5000 | 8, 8, 16, 8 | 0, 0, 6, 0 | 1000 | 60 | garrison capacity: 100 (100) |
| (juggernaut) | (5) | (-, 0, 400, 300, 350; 60) | (200/-) | (110) | (16.2) | (4000) | (5, 5, 10, -) | (100, 0, 10, -) | (5000) | (10-72) | arrow count: 10–50 (1–10) |

3 Structures

3.1 Civic

| class | building costs | pop. | \mathbf{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, 0, 500, 500, 500; 500 | 25 | 60, 60, 60, 0, 0; 250 | 3, 25, 35, 30 | 2500 | 25 | 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) |
| small house | 0, 0, 75, 0, 0; 30 | 5 | 0, 0, 10, 0, 0; 0 | 3, 20, 30, 25 | 300 | 3 | 750 | 0/10/40000 | 20 |
| | (-, 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; 50 | 10 | 0, 0, 20, 0, 0; 0 | 3, 20, 30, 25 | 300 | 6 | 1200 | 0/20/40000 | 20 |
| | (-, 0, 150, 0, 0; 50) | (10) | (-, 0, 20, 0, 0; 0) | (3, 20, 30, -) | (300) | (6) | (1200) | (0/20/40000) | (20) |
| blacksmith | 0, 0, 200, 100, 0; 150 | 0 | 0, 0, 40, 20, 0; 0 | 3, 20, 30, 25 | 500 | 10 | 2000 | 0/30/40000 | 40 |
| | (-, 0, 200, 0, 0; 200) | (0) | (-, 0, 50, 25, 0; 0) | (3, 20, 35, -) | (500) | (1) | (2000) | (0/38/30000) | (32) |
| temple | 0, 0, 100, 0, 300; 200 | 0 | 40, 0, 20, 0, 60; 0 | 3, 20, 30, 25 | 500 | 20 | 2000 | 0/40/40000 | 40 |
| | (-, 0, 0, 0, 300; 200) | (5) | $(-,\ 0,\ 0,\ 50,\ 50;\ 0)$ | (3, 20, 30, -) | (500) | (20) | (2000) | (0/40/30000) | (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) |
| 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 | 0 | 400, 200, 200, 200, 200; 0 | 3, 15, 25, 20 | 2000 | 50 | 5000 | 1/100/65535 | 100 |
| | (-, 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 | 500 | _ | 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 | (-) | 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 | (-) | 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 | (-) | 900 | _ | 30 |
| | (-, 0, 100, 0, 0; 45) | (0) | (-, 100, 10, 0, 0; 0) | (1, 5, 20, -) | (300) | (-) | (900) | (0/20/30000) | (20) |
| dock | 0, 0, 200, 0, 0; 150 | 0 | 0, 0, 40, 0, 0; 0 | 3, 20, 35, 10 | 500 | (1) | 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 | (-) | 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 | 500 | (-) | 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. | \mathbf{loot} | armour | capture | garrison | \mathbf{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 |
| 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 | 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 |
| 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) |