



hamidiyataidu

Tall al-Hamidiya, Syria

# Building Monumental Structures

The monumental buildings unearthed in Tall al-Hamidiya inspired some thoughts and calculations on the ideal proceedings to build huge structures in Ancient Near Eastern times.

## Area hamidiyataidu

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- Residential terrace. Area: 176'000 m<sup>2</sup>
- Central Palace: floor area, including stairs: 38'645 m<sup>2</sup>
- Southwest Palace: floor space, including stairs: ± 14'000 m<sup>2</sup>
- Core building of the eastern complex: area: 8'100 m<sup>2</sup>

## Cubatures of bricks

- Enclosing wall of the palace terrace 60'465 m<sup>3</sup>
- Central palace: 361'270 m<sup>3</sup>
- Southwest Palace: 29'065 m<sup>3</sup>
- Core building of the east building: 13'500 m<sup>3</sup>

Total: 464'300 m<sup>3</sup>,                    ± **37'800'000 bricks**

## Straw


- for chaff (brick and plaster): 6'116'843 m<sup>3</sup>
- covering the roofs: 90'000 m<sup>3</sup>

Total: 6,206,843 m<sup>3</sup>        ± **776 km<sup>2</sup> cultivated area**

## Job/construction time, Costs

With 300 working days per year and a construction time of 10 years ± **1100 to 1200 workers**.

With an average wage of 1/30 Shekel silver per man per day, this results in a total of about **974 kg of silver**.

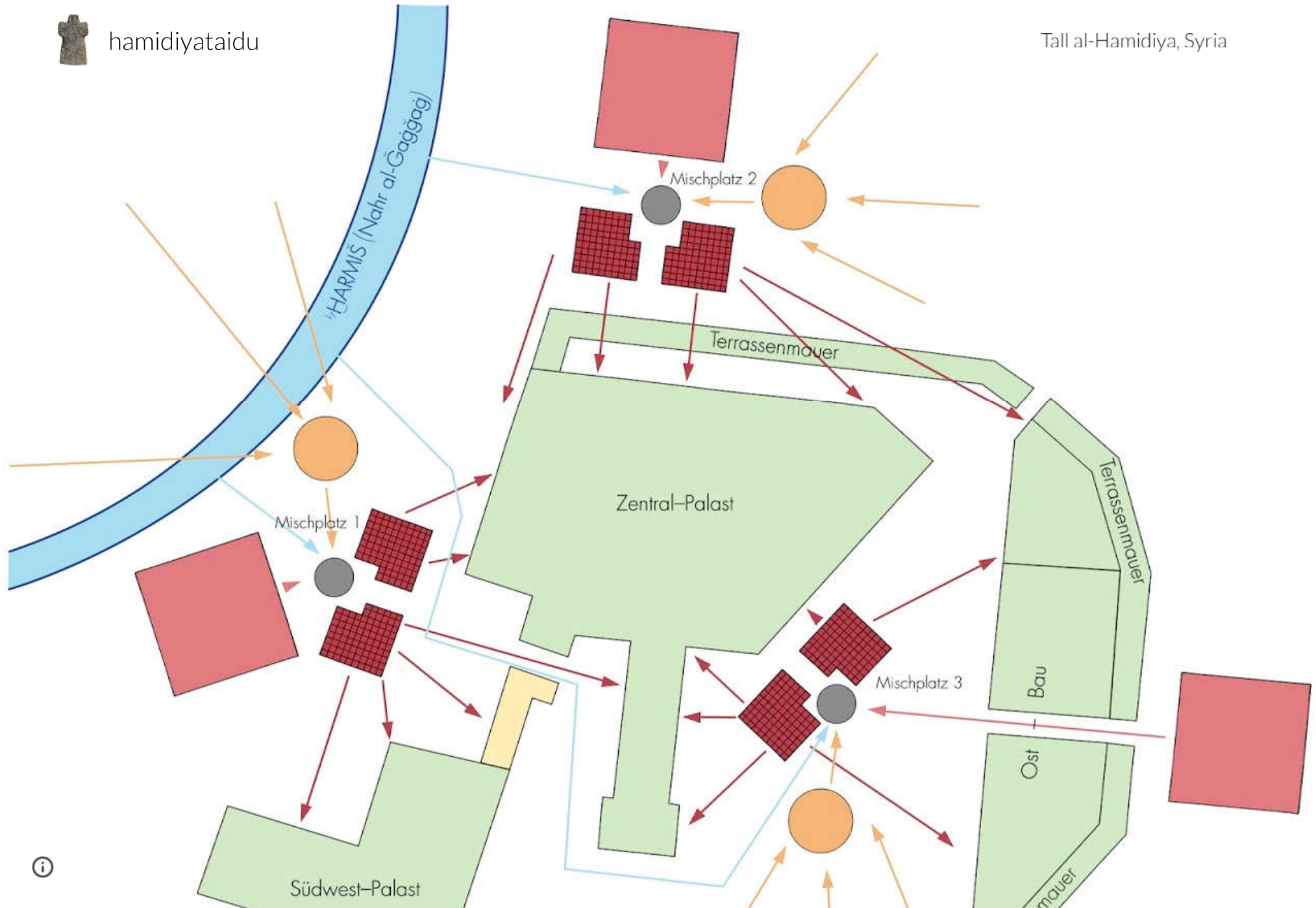
A  timized workspace arrangement for brick production, access to earth and water, and brick transport, is shown on the diagram.

For the calculations cf. TH 4. 67-78. TH 5. 70f.



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