State Production and Market at Ebla – Animal and Wool Values

Alfonso Archi
Roma
alfonso.archi@gmail.com

Abstract. The kingdom of Ebla covered an area extending around 200 km from north to south and from east to west; that is, from the modern Syrian-Turkish border down to the oasis of Ḥama in the south, and from the Amuq plain, where the delta of the Orontes River flows into the Mediterranean Sea, up to Emar, its allied city, whose territory reached the Euphrates. The Central Administration – the Palace – had at its disposal the revenues from its own administrative organization, with its workshops, as well as from the “village communities”, represented by a large number of “Elders”. Notwithstanding that, Ebla’s envoys also acquire several types of goods, such as mules, cattle and sheep, garments and wool, from the markets of the cities in its own kingdom, and in other city-states, primarily from its archival, Mari. Luxury goods, on the other hand, were mostly acquired on the basis of ceremonial gifts from court to court. Long-distance-trade, however, was not relevant in the formation of the Syrian regional states. Goods (including the tributary deliveries its officials owed the Palace) were given also values in silver, and small goods, such as aromatic essences, were valued in wool. The average value of a head of cattle was around 25 shekels of silver, while a sheep was worth between 1 and 1½ shekels. It is not possible to establish the exact value of the weight used for wool. These prices are in any case much lower compared to those used in Mesopotamia during the Ur III period.

Keywords: Ebla economy, market Ebla, silver as standard of value, cattle, sheep, wool.

1. INTRODUCTION

Administrative texts are by their very nature an extremely reliable source of data; although they contain occasional accounting errors, these are generally easy to detect. An evaluation of ancient Near Eastern admin-

1* Special abbreviations and logograms: kb.: kù-babbar; m.: ma-na (1 mina: 470 g); sh.: shekel (1 shekel: 7.83 g). Arr.: minister Arrukum; Ibr.: minister Ibrium; I.Z.: minister Ibbi-zikir.
istrations based on these kinds of sources is, however, strongly conditioned by external and internal factors. Entire typologies of documents may have been destroyed because they were considered no longer useful, or they may only be represented by some randomly-preserved example, dating in general to the later periods, as is the case at Ebla for most of the entire animal breeding and agricultural sectors, as well as the records for the food provisions of the central Administration. The book-keeping of some other particular administrative sector, moreover, could have been under the responsibility of a peripheral office, whose archive has not yet been found, or even one that did not consider written records necessary, as may be the case at Ebla for the procedure of conveying animals from where they were raised to the Central Administration.

2. SHEEP AND CATTLE BREEDING AND THEIR DELIVERY TO THE PALACE

Document TM.75.G.2306 registers the number of sheep the Palace needed for a period of over three months of one of the very last years of the city: a total of 3,544 heads, to which 400 “dead sheep” were added (for unspecified reasons) belonging to the share owned by the Palace:

<table>
<thead>
<tr>
<th>Obv.</th>
<th>4 mi 30 lá-2 udu nīlba</th>
<th>428 sheep: offerings</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>é dingir-dingir-dingir</td>
<td>for the temples;</td>
</tr>
<tr>
<td></td>
<td>1 mi 5 udu kú</td>
<td>105 sheep: food</td>
</tr>
<tr>
<td></td>
<td>en</td>
<td>for the king;</td>
</tr>
<tr>
<td></td>
<td>15 udu kú</td>
<td>15 sheep: food</td>
</tr>
<tr>
<td></td>
<td>ḫrā- ḫa-ga-da-mu</td>
<td>for (the crown prince) Ir’ak-damu;</td>
</tr>
<tr>
<td></td>
<td>57 udu gurš</td>
<td>57 sheep: for the workers</td>
</tr>
<tr>
<td>II.</td>
<td>é en</td>
<td>of the king’s house</td>
</tr>
<tr>
<td></td>
<td>23 udu</td>
<td>23 sheep:</td>
</tr>
<tr>
<td></td>
<td>al6-du11-ga</td>
<td>requested (at disposal);</td>
</tr>
<tr>
<td></td>
<td>1 mi 20 udu kú</td>
<td>120 sheep: food</td>
</tr>
<tr>
<td></td>
<td>Du-ḫu-ḫu.4 ḫa-da</td>
<td>for Tubuḫu-Haddu (son of the minister Ibbi-zikir);</td>
</tr>
<tr>
<td></td>
<td>34 udu-nita</td>
<td>34 rams:</td>
</tr>
<tr>
<td></td>
<td>(blank)</td>
<td>127 sheep: food</td>
</tr>
<tr>
<td></td>
<td>1 mi 30 lá-3 udu kú</td>
<td>for the messengers;</td>
</tr>
<tr>
<td></td>
<td>kas4</td>
<td>12 sheep:</td>
</tr>
<tr>
<td>III.</td>
<td>kaskal</td>
<td>for the journeys</td>
</tr>
<tr>
<td></td>
<td>Ru11-zi-ma-li</td>
<td>of Ruzi-malik (son of the minister Ibbi-zikir).</td>
</tr>
<tr>
<td></td>
<td>šu-nig 9 mi 21 udu</td>
<td>Grand total: 921 sheep.</td>
</tr>
<tr>
<td></td>
<td>2 mi udu u-gyr</td>
<td>200 (were) the dead sheep.</td>
</tr>
<tr>
<td></td>
<td>iti za- ṣa-tum</td>
<td>Month III.</td>
</tr>
</tbody>
</table>

2 For animal breeding at Ebla, see Archi 1984; for the field text, see Milano 1987, and Milano 1996. Large part of the documentation concerning the food provision of the royal court and central bureaucracy had been published by L. Milano in ARET IX.

3 For the limits of the typologies of the documentation concerning the Near Eastern studies, see the important article by Miguel Civil (1980).

For a first study based on a quantitative analysis of the data offered by Ebla, see Archi 2017a, which concerns lapis lazuli, turtle carapaces, and a kind of shells. On the ceremonial gifts exchange between the courts of Ebla and Mari, see Archi 1999: 147–152 = Archi 2015: 179–187; on the gifts exchanged between Ebla and Dugurusu (Tukriti), in West Iran, see Archi 2016.
2 mi 62 udu 262 sheep
7. é dingir-dingir-dingir
1 mi 157
	for the temples:
IV. 1. 60 lá-3 udu kú sheep: food
en
3. 53 udu 53 sheep:
kú
	for the king;
5. ḫr'-à-ag-da-mu
4 mi 75 udu guruš 475 sheep for the workers
7. é en 57 sheep: requested (at disposal);
of the house of the king;
60 lá-3 udu al₇-du₁₁₄-ga
V. 1. 82[+1] udu 83 sheep:
Du-bù-ḫu-d'À-da for Tubuḫu-Haddu (son of the minister Ibbi-zikir);
3. 1 mi 20 udu guruš 120 sheep: for the workers (of the king's house)
1 mi 36 udu kas₄ 136 sheep: for the messengers
5. (blank)

v. I. 1. šu-nigin 1 li 3 mi[i] 43'[3] 200 (were) the dead sheep.
2 mi udu ug₇ 219 sheep for the temples
3. iti gi-ni

Month IV.

II. 1. kú food
en
3. 54 udu 54 sheep:
ḫr'-à-ag-da-mu for (the crown prince) Ir'ak-damu;
5. 4 mi 96 udu guruš
é en 496 sheep: for the workers
7. wa and
Du-bù-ḫu-d'À-da for Tubuḫu-Haddu (son of the minister Ibbi-zikir);

III. 1. 1 mi 50 lá-3 udu kú 147 sheep: food
kas₄ for the messengers;
3. 1 mi 40 lá-1 udu níg-kaskal 139 sheep: travel provisions
L-bi-zi-kir for (the minister) Ibbi-zikir
5. wa and
Ru₁₂-zî-ma[-lik] (his son) Ruzi-malik:
7. 40 udu 40 sheep:

IV. 1. al₇-du₁₁₄-ga
šu-nigin 1 li 2 mi 80 udu
3. iti ha-li
And
(blank) Grand total: 1280 sheep.

V. (blank)

TM.75.G.2538 is a similar account, but annual: from the beginning of month III to the beginning of the same month of the following year. The total number of sheep needed that year by the Palace organization was 21,210 + 10[x] sheep.
ë dingir-dingir-dingir-dingir for the temples.

1,780 sheep: food

1,645 sheep: requested (at disposal).

2,966 sheep: food

for (the workers) of the Palace

and

Ebla.

(son of the minister Ibbi-zikir).

1,803 sheep: food

for the Palace

by

(the minister) Ibbi-zikir;

(and his son) Ruzi-malik

306 sheep for (envoys of) the city of Armi.

500 sheep: for examinations of the exta.

2,550 sheep: receipt

by the Palace.

4,860 sheep: rations

for (the people of) Ebla.

[ ] 10 sheep.
A detailed list of the sheep slaughtered for the needs of Ebla was drawn up every month, probably at a sheep-cote outside the city. The Central Archive preserved twenty-two of these lists, concerning the very last months leading up to the city’s final destruction. One can deduce – considering the ductus – that these documents were drawn up by two or three scribes who were not employed at that archive. They were unbaked (which is anomalous for such large tablets); they present a slightly different ductus; and several of them are dated according to the local calendar, while the dating of the documents drawn up by the scribes of the Central Archive present the Semitic calendar (with extremely rare exceptions). Before the destruction of these monthly documents, their data were condensed and registered by the scribes of the Central Archive on much smaller tablets like the two presented above, which were likewise destroyed after a certain limited period.

Documents concerning the agricultural sectors were not systematically collected, contrary to those concerning the incomes and expenditures of metals, or the distribution of clothing. Some earlier documents concerning the agricultural administration had been transferred to the Central Archive, when it was built at the time of minister Arrukum, because they were considered important, and were never eliminated; others from the time of ministers Iblium and Ibbi-zikir were randomly preserved, and most of them are to be dated to the last period.

The state of Ebla was based on two counterposing forces: the “Palace”, SA.ZA₅ ki, and the “village communities”, which were represented at the Palace by a large delegation of “Elders”, ábba (see Archi 2022a). Groups of villages could form “gates”, ká; that is “districts”, under the control of a “lord”, lugal, or an “overseer”, ugula, and part of their revenues (usually in silver) were presented by these officials to the Palace (see ARET XIV, 3–5), while other villages sent grain, other products and animals.

Some of these ká “gates” included also é “houses”, which were owned directly by the Palace, or also whose revenues also belonged to members of the royal family, or officials of the Palace:

\[ \text{TM.75.G.2634 obv. I 1–II 6: } 1,342 \text{ é gurus nu-su dumu-nita ir} \text{it} 11 \text{ SA.ZA₅ ki wa na-se} 11 \text{ ugula ká 100 é [ir} 11 \text{] en wa ama-gal en 75 é SA.ZA₅ ki 227 maškim SA.ZA₅ ki AN.ŠÉ.GÚ 1,744 é sa₂₁₀ gud-gud ká Bar-za-ma-ù} \text{ } 10 \text{ houses of the servant of the Palace, and people of the overseer of the gate. } 100 \text{ houses of the servant of the king and of the king’s mother. } 75 \text{ houses of the Palace. } 227 \text{ houses of the representatives of the Palace. Total: } 1,744 \text{ houses … cattle. Gate of Barza-mā’u}.\]

According to TM.75.G.1558, twenty-two “chief-herdsmen of the king”, ugula-mûnsub-ugula-mûnsub lû en, each placed in a different settlement, were responsible for 67,200 sheep (Archi 1984: 63-64). Some lords had competence of the sheep of the Central Administration, as one may deduce from the following text, dated to the death of a king of Mari – more likely Nizi than Iblul-il – therefore to the first seven years of Irkab-damu’s reign:

\[ \text{TM.75.G.1574 obv. I 1–III 3: } 65,300 \text{ udu-udu lú šu Du-bi-šum 18,950 udu-udu lú šu Dar-mi-a in } 1 \text{ mu “65,300 sheep in the hands of Dubišum; 18,950 sheep in the hands of Darmia. In the year …”} \]

---

4 Four of these lists have been published by in Pettinato 1979.
5 On the two calendars in use at Ebla, see Archi 2017b. That the first month of the year was iti-i-si seems to be confirmed by the colophon in ARET XV 42, a text which includes expenditures of garments for several months, and has at the end, § 145, iti-i-si iti ig-za iti za-á-tum [ ]. Previous studies are: Pettinato 1974/77, and Pettinato 1977.
6 Three other similar tablets, TM.75.G.1629, TM.75.G.16430; TM.75.G.2096, have been published by Pettinato (1977: 258–281).
7 See Archi 1984: 68–69. For the lord Darmia, see ARET XIV: 2–5.
At the time of minister Ibbi-zikir, according to ARET XIV 2a §§ 6, 7, the cattle available to the Palace were 3,710 heads (under the responsibility of Ida-nikimu), and the sheep 153,600 (under the responsibility of Aḫu-naše).8

The following two documents show that some account evaluated these revenues in silver:

c) TM.75.G.1958 obv. II 4–II 7: 16;47 ma-na kù:babbar I-da-NE ugula si 12;46 ma-na kù:babbar 'A'-da-ua-zu 4;32 ma-na kù:babbar T'-ti-[LU]M [3;13 m][a-[n]a [k]û:babbar Kùn-da-ba-an i-na-sum AN.ŠÈ.GÚ 37;18 ma-na kù:babbar níg-sa₉₀ 657 gud Kùn-da-ba-an zà-me "16;47 minas (7.888 kg) of silver: Ida-NE, the overseer ...; 12;46 minas (6 kg): Ada-wazu; 4;32 minas (3.234 kg) of silver: to Kunda-ban have given. Total: 37;18 minas (17.531 kg) of silver: value of 657 cattle (1 : 3.41 sh.): Kunda-ban has placed at disposal”.

d) TM.75.G.10213: 2 mi-at 50+[3 ma-na kù:babbar [l]û [g]ud-gud [l]û ugula-ugula [k]û:babbar [k]ê-si₉₀ [x] i-na-s]um [wa] 40 ma-na kù:babbar lû 'tu' :[d][a-sî₉₀ u-gû u-gû [k]û:babbar "gud 'gud' [a]₉₀ u-gula-ugula kû:kà wa al₉₀ u-gula gud-gud nu-i-na-sum ë en AN.ŠÈ.GÚ 3 mi-at 90 lá-l ma-na k[y]û:babbar níg-[s]a₉₀ 9 [l-i-im] 9 mi-at 41 gud ap 76 ma-na kû:babbar su-bal-ak 25 ma-na sù+i₉₀ kû:g[î] níg-[s]a₉₀ 60 áb:peš₉₀ in[x] Sî'-x' [jî'-m[à]t] u-gula gud-gud "253 minas (118.91 kg) of silver: (the value) of the cattle which the overseers of the 'gates' [have] given, [and] 40 minas (18.80 kg) of silver for their newborn (animals): present in the Treasure (the House of wool). Further, 96 minas (45.12 kg) of silver: the balance of the silver of the cattle (which is) competence of the overseers of the 'gates' and competence of the herdsmen (which) has not been given to the king's house. Total: 389 minas (182.83) of silver: value of 9941 heads (1 head = 2.6 sh.). Further, 76 minas (35.72 kg) of silver to be changed in 25;20 minas (11.907 kg) of gold to purchase 660+[100/300] (1 head : 2/1.59 sh.) cows in age to be impregnated ...

The term áb:peš refers to a heifer which could be impregnated, that is, at around two years of age or a few months less, while áb:peš-maḫ was a "mature cow (to be impregnated)”. A “young cow not impregnated”, áb:peš nu-GIS₉₀-gal₉₀, was sacrificed on the occasion of the royal wedding, ARET XI 2 § 74. Text TM.75.G.1747 lists cattle in this sequence: gud-áb – áb:peš – amar 1 mu "cattle, cow in calf, calf of one year”. TM.75.G.2283 obv. I 1–III 1 has: “Total 972 bulls, 935 mature cows in calf, 768 fattened oxen, 338 draught-oxen, 241 mature calves, 36 draught-calves”, gud-maḫ, áb:peš-maḫ, gud:niga, gud- gid, amar-maḫ, amar-gíd (Archi 1987:122).

The kingdom of Ebla extended over a region with between 600 and 400 mm annual rainfall. In winter and spring even areas with 300 mm annual rainfall become covered with a thick lawn of vegetation, and today sheep farmers from the city of Saraqeb (near Tall Mardikh / Ebla) still keep their herds in the hilly region north-east of Ḥama.9

3. TEXTILE PRODUCTION

The important role that wool played in the economic development of Ebla from archaic times can be appreciated when considering that the place where silver and gold were stockpiled – the Treasury – continued to keep the name é-siki, "House of Wool".10

The working of wool, along with silver and gold, were the two major economic activities of the Eblaite secondary productive sectors. Metal incomes – unwrought and in the form of objects – were registered in annual

---


9 An image of Syria with average annual rainfall isohyets is published in Smith, Wilckinson, Lawrence 2014: 153. On pastoral transhumance in the Jebel Bishri region, see Lönnquist 2014, pp. 100–104.

10 See the passages quoted in ARET XIV: 530.
documents under the label “delivery” mu-DU, to the Administration.\textsuperscript{11} The textile production was registered in monthly documents, starting from the period of minister Arrukum; therefore, for about forty-one years. All these documents were preserved in the Central Archive.\textsuperscript{12}

The rather low data of the textile production in comparison with the herds and other primary goods at the disposal of the Administration are explainable considering that these were the garments manufactured in the workshops in the city of Ebla together with those sent as ceremonial gifts by some peripheral centres and city-states. Raw wool was also distributed to the lower-level personnel.

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ARET XV</td>
<td>9 128</td>
<td>17</td>
<td>ARET XV</td>
<td>14 zi-řî 14 “KIN”</td>
</tr>
<tr>
<td></td>
<td>10 118</td>
<td>52</td>
<td></td>
<td>15 zi-řî 51½ “KIN”</td>
</tr>
<tr>
<td></td>
<td>11 254</td>
<td>61</td>
<td></td>
<td>33 “KIN” 1 na₄</td>
</tr>
<tr>
<td></td>
<td>12 88</td>
<td>x</td>
<td></td>
<td>5 zi-řî 5 “KIN”</td>
</tr>
<tr>
<td></td>
<td>13 195</td>
<td>35</td>
<td></td>
<td>11 “KIN” 2 na₄</td>
</tr>
<tr>
<td></td>
<td>15 113</td>
<td>29</td>
<td></td>
<td>2 zi-řî 23 “KIN”</td>
</tr>
<tr>
<td></td>
<td>16 115</td>
<td>31</td>
<td></td>
<td>112½ “KIN”</td>
</tr>
<tr>
<td></td>
<td>17 1201</td>
<td>29</td>
<td></td>
<td>13 zi-řî 302 “KIN”</td>
</tr>
<tr>
<td></td>
<td>18 95</td>
<td>36</td>
<td></td>
<td>35 “KIN” 1 na₄</td>
</tr>
<tr>
<td></td>
<td>19 197</td>
<td>53</td>
<td></td>
<td>78 “KIN” 15½ na₄</td>
</tr>
</tbody>
</table>

Garments and wool expended in ten months of the period of minister Arrukum according to the monthly documents

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ARET XIX</td>
<td>1 98</td>
<td>97</td>
<td>ARET XIX</td>
<td>13 zi-řî 95½ “KIN” 19 na₄</td>
</tr>
<tr>
<td></td>
<td>3 234</td>
<td>77</td>
<td></td>
<td>234 gu-mug-TÚG</td>
</tr>
<tr>
<td></td>
<td>8 661</td>
<td>110[+]x</td>
<td></td>
<td>39 ½ “KIN”</td>
</tr>
<tr>
<td></td>
<td>9 242</td>
<td>210</td>
<td></td>
<td>8 zi-řî 313 “KIN”</td>
</tr>
<tr>
<td></td>
<td>11 74</td>
<td>37</td>
<td></td>
<td>14 “KIN”</td>
</tr>
<tr>
<td></td>
<td>12 59</td>
<td>74</td>
<td></td>
<td>26 “KIN”</td>
</tr>
<tr>
<td></td>
<td>14 111</td>
<td>80</td>
<td></td>
<td>201 “KIN”</td>
</tr>
<tr>
<td></td>
<td>15 91</td>
<td>70</td>
<td></td>
<td>83½ “KIN” 1 na₄</td>
</tr>
<tr>
<td></td>
<td>16 66</td>
<td>53</td>
<td></td>
<td>1 zi-řî 2[+]x “KIN” 305 na₄</td>
</tr>
<tr>
<td></td>
<td>17 136</td>
<td>116</td>
<td></td>
<td>3 zi-řî 15½ “KIN”</td>
</tr>
</tbody>
</table>

Garments and wool expended in ten months of the period of minister Ibrium according to the monthly documents

<table>
<thead>
<tr>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ARET I</td>
<td>1 565</td>
<td>368</td>
<td>ARET XIX</td>
<td>12 “KIN”</td>
</tr>
<tr>
<td></td>
<td>2 263</td>
<td>142</td>
<td></td>
<td>6 “KIN”</td>
</tr>
<tr>
<td></td>
<td>3 494</td>
<td>238</td>
<td></td>
<td>//</td>
</tr>
<tr>
<td></td>
<td>5 1,032</td>
<td>547</td>
<td></td>
<td>1 zi-řî</td>
</tr>
<tr>
<td></td>
<td>7 830</td>
<td>181[+]x</td>
<td></td>
<td>1 zi-řî</td>
</tr>
<tr>
<td></td>
<td>8 775</td>
<td>296</td>
<td></td>
<td>//</td>
</tr>
</tbody>
</table>

\textsuperscript{11} The documents have been published in Archi 2022b.

\textsuperscript{12} A general presentation of the use of wool at Ebla is given by Biga 2014. For the value of wool in the Early Bronze Age in Mesopotamia, see Sallaberger 2014.
Garments and wool expended in ten months of the period of minister Ibbi-zikir

4. THE VALUE OF GRAIN, ANIMALS, AND GARMENTS IN SILVER

Silver was the basic medium of exchange. The lemma nig-saₐ₁₀ means “price”, and in general “value”. MEE 2, 18 (TM.75.G.1305) obv. I 1–2: 26 gín (204 g) kb. nig-saₐ₁₀ guruš Ti-[z]i šu-ba₄-ti “26 shekels of silver, the price of a man, Titi has received”. TM.75.G.1552 obv. III 2–4: 10 gín (78 g) kb. nig-saₐ₁₀ dumu-nita nig-du₈ Ga-du-um “10 shekels of silver, the price of a child ransomed (by) Gadum”.

Some of the top officials of the Administration: the “lords”, lugal, together with most of the “overseers”, ugula, were at the head of villages or “gates”, ká, that is: “districts” composed of several settlements (above, § 2). Their “deliveries”, mu-DU, in silver were registered every year in annual documents (collected in ARET XIV). This kind of taxation system also foresaw that agricultural products valued in silver (usually barley, and in some case also oil) could be delivered instead. This procedure is preserved in a few cases, in passages like the following one:

a) ARET XIV 67 § 7: “2 ma-na kb. wa₃ mi-at gú-bar še a-diₚ 1 ma-na kb. mu-DU Ḥab-ra-ar “2 minas of silver and 300 gú-bar measures of barley of the value of 1 mina of silver: delivery by Ḥabar”; XIV 82 § 10: 1440 še gú-bar a-dîtₚ 3 ma-na kb. GAB-daₙu 1 ma-na kb. alₖ-sù "1440 gú-bar measures of barley: (delivery by) GABA-damu; 2 minas of silver: his debt”.

Only two texts present a large delivery of sheep valued in silver. According to text b, a certain Išgaʿum delivered a total of 76 minas, 20 of which were given by Abadanu (probably a subordinate of his), and another 20 minas were given personally by Išgaʿum. In order to reach the amount of 76 minas, he delivered 2,170 sheep valued 36 minas (= 2,160 shekels), that is: 1 sheep = 1 shekel. Another 13 minas remained outstanding as Išgaʿum’s debt (alₖ-sù). There are no data which would allow us to define the role of this Išgaʿum in the administration.

b) TM.75.G.2553: (1) 20 ma-na kb. A-ba-da-ₙu³ Dur-N[N-E-duₙu³] i-na-sum / (2) 36 ma-na kb. lú nig-saₐ₁₀ 2 li 1 ṭiₙu³ 70² udu / (3) 20 ma-na kb. líₙu³-gażₙu³ i-na-sum / (4) AN.ŠÈ.GÚ 76 ma-na kb. líₙu³-gażₙu³ i-na-sum 13 ma-na kb. alₖ-sù / (5) tíₙu³ gₙu³-sum “(1) 20 minas (9.40 kg) of silver: Abadanu of the city of DurNedu has given. (2) 36 minas (16.92) of silver: the price (/value) of 2,170(?) sheep. (3) 20 minas (9.40 kg) of silver: Išgaʿum has given (4) Total 76 minas (35.72 kg) of silver: Išgaʿum has given. 13 minas (6.11 kg) of silver (is) his debt. (5) Month VII.”

Text c registers the expenditure of 214;42 minas (100.82 kg) of silver. Part of this silver had to be exchanged for gold for objects to be given as a dowry by the queen to her daughter Kešdut, who was betrothed to a prince of Kiš, as well as for gifts to the queen of Ḥarran, and for Zaʿaše, the daughter of minister Ibbi-zikir, betrothed to the crown-prince Irʾaq-damu. Other silver was used for decorations, perhaps for chariots, and for the “purchase”, níg-saₐ₁₀, of garments by a certain Šar-a-ba₄. The final sum explains that 116;40 minas of silver were the equivalent of 10,000 sheep, each head being valued at ⁷⁄₁₀ of a shekel (7,000 shekels: 10,000 = 0.7). Šar-aba gave a further 26;55 minas (12.651 kg) of silver, and another 11;55 minas (5.50 kg) of silver for seven sides (of chariots)°°:

c) TM.75/86.G.3 rev. III 1–6: šuₙiₙiₙ₂ miₙ₂ 2 miₙ₂ 14 ma-na ša-pi₂ 2 kb. waₙ₂ i-na-sum ša-sù ⁱ¹ miₙ₂ 16 ma-na ša-pi₂ kb. lú 1 riₙu³-pap udu 26 ma-naₙ₂ 55 kb. Šarₙ₁-a-ba₄ i-na-sum 11 ma-naₙ₂ 30⁺25₂ kb. Šarₙ₁-a-ba₄ 7 zagₙu³-me “Grand total: 214;42 minas (100.809 kg) of silver: 116;40 minas (54.833 kg) of silver of this (amount) has been given (in form of) of 10,000 sheep (1 sheep = 0.7sh.). Šar-aba has given 26;55 minas (12.651 kg) of silver, (and further) 11;55 minas (5.601 kg) of silver Šar-aba (has given) for seven sides (of chariots).”

°° R. Englund (2012, 2014) is the author of two important studies on silver equivalences in the economy of the Ur III period.
Deliveries of garments to the Palace could also be valued in silver. Text TM.75.G.2316 registers deliveries of garments by some officials. Irti was probably one of minister Ibrium’s son, while Enna-Dagan and Bazari were two of his representatives. Irti’s precise role in the Administration, however, cannot be defined, nor can that of the other two officials (Biga 1981: 30-33):

\[d\) TM.75.G.2316: (1) 400 sal-TUG En-na-Dagan 200 sal-TUG Ba-za-ri 2 maškım Ir-ti šu-mu-tag, níg-sa₁₀ 10 ma-na kb. / (2) wa 17 ma-na kb. Ir-ti-igi-ba-ir maškım Ir-ti i-na-sum / (3) 6:30 ma-na kb. Irti-ig-da-mu Ga-ga-u₇ i-na-sum / (4) 26:30 ma-na kb. al₆ Ga-ga-u₇ / (5) wa 100 ma-na kb. A-bu i-na-sum / (6) níg-sa₁₀ tūg-tūg “(1) 400 garments Enna-Dagan, 200 garments Bazari: two representatives of Irti, have handed over; (their) value: 10 minas (4.70 kg) of silver / (2) And 17 minas (8 kg) of silver Išgi-ba’ir, the representative of Irti has given. (3) 6;30 minas (3.055 kg) of silver Išgi-ba’ir, the representative of Irti has given. (4) 26;30 minas (12.455 kg) of silver: debt of Gaga’u. / (5) And 100 minas (47 kg) of silver Abu has given. Values of garments”.

Goods expended by the Administration could also be valued in silver, according to the following document:

c) TM.75.G.2543 obv. I 5–9: 6 (gín) kb. níg-sa₁₀ 10 udu ma-lik-tum En-na-šu-ba₄-ti “6 shekels (47 g) of silver: value of sheep for the queen: Enna-i(l) has received”; II 4–8: 3 (gín) kb. mu₇ Ma-da-na Za-ba-zak₇ šu-du₈ “3 (shekels) (23 g) of silver for garments: Madana of the city of Zabaza has taken in possession”; II 9–III 4: “4;02 ma-na níg-sa₁₀ 6 gud 1 ma-na kb. 2 IGI.NITA šu-mu-tag₄ níg-kaskal En-na-i(l) has handed over in the city of Situm; 10 shekels (78 g.) of silver was their travel provision. Month VII”.

c) TM.75.G.10056 obv. I 1–II 2: 1;20 ma-na kù-gi níg-sa₁₀ 5 ma-na kù-gi níg-sa₁₀ 21 ma-na kù-gi níg-é-gul-gul 9 é-duru₅ 2½ Mā-ri₄ ugula A[-x(-x-)].₄š-b₄-ti₉ “1;20 minas (617 g) of gold: 15 mantel (at 5.3 shekels each); 5 minas (2.35 kg) of gold: price of barley; 21 minas (9.87 kg) of gold: allowance for 9 teams (of 20 men each) of Mari at 2½ shekels (each): the overseer of the city of A[-…] has received”.

5. EVALUATION IN GOLD AND WOOL

According to some late documents datable to the last years in which the ratio between silver and gold had dropped down to 3: 1, or even 2.5: 1, Ebla even expended gold at the market, having easier access at it than other eastern states:

\[a\) TM.75.G.10096 (Archi 1982: 177) obv. I 1 – II 2: 37 ma-na kù-gi níg-sa₁₀ še Pa-a-ba₄ šu-ba₄-ti “37 minas (17.39 kg) of gold received by Pa-aba for purchases of barley”. This Pāba can only be the spouse of Ḥi-dár, king of Mari, who visited him as prisoner at Ebla (Archi 2019c: 175-176).

\[b\) TM.75.G.1161 obv. I 1–III 3: 1 ma-na kù-gi níg-sa₁₀₁₀ níg-sa₁₀ En-na-i wa A-bù si-in Sī-Ṭām₇₄ šu-mu-tag₄ 10 (gín) kb. níg-kaskal-si iti ga-sum “1 mina (470 g) of gold for purchases to Enna-i(l) and Abu handed over in the city of Situm; 10 shekels (78 g.) of silver was their travel provision. Month VII”.

\[c\) TM.75.G.10056 obv. I 1–II 2: 1;20 ma-na kù-gi 15’d-da-um-TŪG 5 ma-na kù-gi níg-sa₁₀ 21 ma-na kù-gi níg-é-gul-gul 9 é-duru₅ 2½ Mā-ri₄ ugula A[-x(-x-)].₄š-b₄-ti₉ “1;20 minas (617 g) of gold: 15 mantel (at 5.3 shekels each); 5 minas (2.35 kg) of gold: price of barley; 21 minas (9.87 kg) of gold: allowance for 9 teams (of 20 men each) of Mari at 2½ shekels (each): the overseer of the city of A[-…] has received”.

Wool also was often used as standard of value, in particular for small goods as aromatic essences, or could be given as remuneration. Here below are just some few passages:

\[a\) ARET I 1 § 87”: 10 “KIN” siki níg-sa₁₀ GIŠ-šim (“resin essence”) é en, § 88”: 2 “KIN” siki níg-sa₁₀ 2 ma-ḫu (“…”); ARET II 15 § 21: 40 “KIN” siki níg-sa₁₀ a-gū (“…”); ARET II 231 V 1–3: 2 “KIN” siki níg-sa₁₀ GIŠ-asari (“two trays”); ARET XV 37 § 77: 4½ “KIN” siki níg-sa₁₀ ú-ḫab 8 “KIN” siki níg-sa₁₀ GIŠ-sal (a colour, “…”).
6. THE IMPACT OF THE MARKET

Notwithstanding the internal resources of the state both in goods and manpower, Ebla bought manufactured goods, such as clothing, and even wool, at several markets (even from Mari, its rival city) despite having herds of more than 70,000 sheep at its disposal (above § 2). According to the following passage from a document to be dated to the first year of minister Ibrium, 4 minas of silver were expended for purchasing seventy-one garments, one kilt, and three lengths of linen by Nazi at the market in the city of Mari. ARET XXI 3 (Ibr. 01) § 73: 4 ma-na (1.88 kg) kb nig-sa₁₀ 71 ’à-da-um-TÜG-I 1 ḫb-III-TÜG gid babbar 3 gada-TÜG ’ki:lam₇ Ma-r₇ki Na-zi. Parallel passages also mention again him and/or another “merchant”, dam-gār, who bought garments, XXI 6 § 85: 12 ma-na (5.64 kg) kb. 162 aktum-TÜG 15 zara₆-TÜG 1 gada-TÜG 11 dúl-TÜG 5 nig-là-sag ’ki:lam₇ Ma-r₇ki Na-zi; XXI 13 § 29: 8 ma-na (3.76 kg) kb. nig-sa₁₀ 150 aktum-TÜG 1 zar₆-TÜG 20 dúl-TÜG Ma-r₇ki ki:lam₇ Ma-r₇ki dam-gār. Even honey and flour were sometimes purchased at Mari, as is exemplified by TM.75,G.10107 obv. I 1–II 2: 10 ma-na (4.70 kg) kb. nig-sa₁₀ tūg-tūg lā wa 10 minas: price of garments, honey, and flour of Mari.

It was so common for Eblaite envoys to travel to different markets to purchase garments, that the Administration of Mari even considered a load of wool (together with other goods) a gift worthy of the king of Ebla, as shown in ARET XIV 79 § 41: 184 na₄ siki Ma-r₇ki nig-ba en Ṣu-ɡa-du sagi šu-mu-tag₄ “184 stone-weights of wool of Mari for the king were handed over by Šugadu, the steward (of Mari)”. Luxurious goods were instead mostly acquired on the basis of ceremonial gifts from court to court, as was the case of lapis lazuli. Some delegations from Mari reached Ebla even several times a year, especially during the time of Ibbi-zikir, the last minister: these envoys usually brought clothing, but the chief delegation (the “steward”, sagi) presented lapis lazuli, receiving gold in exchange (see Archi 2017a: 37-38).

The amount of lapis lazuli brought by envoys from Mari during the first thirteen years of minister Ibbi-zikir’s term – when Ebla was at the height of its power – amounted to about 72 kg, and that acquired at several markets along the Euphrates valley (whose origin was ultimately the city of Mari, which acted as an intermediary between Kiš and the western regions), totaled about 58 kg, a clear example of the role that the market played in connection to the ceremonial exchanges involving such a highly coveted luxury good.

The impact on the market of other kinds of goods, such as clothing, objects, and animals as well (with the exception of mules imported from the territory of Nagar), was surely much less remarkable, because of the revenues which the Central Administration could raise from the production of goods manufactured in its own ateliers, from its own possessions, and through the taxation system. Text TM.75.G.1352 offers a rare example of a document concerning the amount of silver expended for “purchases”, nig-sa₁₀, over one year: the “third one” of Arrukum (the name of this minister is mentioned in rev. V 4). Here below are some excerpts:

obv. I 1–III 1: 32;20 ma-na (15.197 kg) kb. nig-sa₁₀ 6 gir mar-tu ku-gi 6 gir mar-tu ti ku-gi 31 gir mar-tu ba-du-um₉ kb. ku-gi 47 gir mar-tu ḫul 77 aktum-TÜG 23 zar₆-TÜG 36 sal-TÜG ... (15.197 kg of silver for ninety daggers of different kinds, several kinds of garments); V 5 – VI 3: 16 GİŠ-gü-gi-ḫa-tum 200 udu ki:lam₇ ... (16 ... 200 sheep at the market of [...] ); VI 6–VII 2: [...] nig-sa₁₀ 10 gir mar-tu ḫul ki:lam₇ ’Du-ṭub₇ [...] (purchase of ten bad daggers at the market of the city of Tuba); VIII 2–rev. I 1: ki:lam₇ Igd₇-da₇₉, I 5–6: ki:lam₇ Si-ʿa-am₇ (at the markets of the cities of Igdar, Siʾamu); I 7–III 1: 2;30 ma-na (1;175 kg) kb. 265 ib-TÜG 7 GİŠ-asar ki:lam₇; ʾA-da₇ (two hundred sixty-five kilts, seven trays at the market of the god Hadda); III

14 For nunuz mušen-maḥ “egg of the big bird (i.e. the ostrich)”, see ARET VII 77 §§ 5–7: 10 / 4 / 7 gín kb. 1 / 2 / 3 nig-sa₁₀ nunuz mušen-maḥ “10 / 4 / 7 shekels of silver for three purchases of ostrich eggs”. For nunuz “ovoid”, see Civil 2008: 66–67: nunuz.mušen.za = TE.MUŠEN “stone bird eggs”.
15 On the interpretation of LAM.KI as ki:lam₇ (ganba) “market”, see Conti 1997: 59–60 (nt. 139).
16 On the manpower employed in the city of Ebla, see Archi 2018: 203–213, 229–234.
Markets were held – in many cases on the occasion of religious festivals – at Ebla itself, in cities of its kingdom, and in many city-states, such as Mari, a factor which has been previously noted by M.G. Biga. The people whom the Administration entrusted to provide cattle, garments, and wool (notwithstanding Ebla’s own revenues), received some amounts of silver. Some names of these people occur several times: they could have been officials from the Palace; while others are qualified as “merchant”, dam-gùr, or “trader”, lú-kar (rarely: ga-eššag). The fact that only two documents concerning the book-keeping of the journeys of two different merchants were preserved in the Central Archive shows that these merchants mostly acted on their own behalf, and were not institutional agents commissioned to obtain goods that were needed.

One can conclude that valuable objects, including garments, were mostly exchanged through a ceremonial system, which consisted in a yearly issue of garments to the rulers and the Elders of the city-states which acknowledged Ebla’s supremacy, and a counter-delivery from these cities of small amounts of silver and garments (of the same kind as those received!) once or twice a year. Only the city of Kablul regularly sent gold in amounts of ca. 5 minas (2.35 kg) during the years of minister Ibbi-zikir, evidently because it must have been situated close to the sources of gold. Major centres, such as Mari and Dugurasu (Tukriš, north of the Zagros mountains), also regularly exchanged exotic goods (year after year). Precious goods were also sent on the occasion of special events as a military victory by an allied state: the victory of the city of Armi over Abarsal, for example, prompted Ebla to send envoys bearing objects in gold (see Archi 2019b: 6-7).

The steady increase in data and some new intellectual insights have compelled scholars to reinterpret the formation of states in the ancient Near East; differently from the times when it was believed that the royal households of the Ur III period, and their dependents, included nearly all of the population.

According to recent theories long distance trade would have been the basis of the early formation of the state, not only in the period of the expansion of the Uruk colonies in the IV millennium: the commercial factor would also have played a decisive role during the Sargonic period, as the royal inscriptions seem suggest. A strong interaction with the eastern regions would have continued into the Ur III period.

The Ebla of the 24th century BC presents a rather different picture. Only “mules”, (ANŠE.)BAR.AN, (ANŠE-kúnga), a hybrid obtained by crossing onagers with jennies, were mostly imported from the Ḥabur triangle, under the hegemony of Nagar (Tell Brak), at the border of a hilly region where wild onager once grazed. Mules however, were in time also bred on Eblaite farms (Archi 2019d: 45-47).

Ebla had contact with several cities in the far northeastern regions: Aššur (Ašu-ru₁₂ kiš), Erbil (Ir-bi-i-lum), and Ḥamazi (Ḫa-ma-zi₂ kiš), with which it tried to establish ties to obtain mules in exchange for woodtimber. Only with Gasur (Ga-su-ru₁₃ lu₂ kiš), however, and with Dugurasu, did relations remain intense until the final years, but this was based solely on ceremonial gifts (Archi 2016: 33-37).

---

17 Biga 2002, where she presents a long list of places and occasions in which these markets took place.
18 These two texts are ARET XVI 22 and TM.75.G.1245, studied respectively by Milano (2003) and Archi (2005).
19 For the first case, see Archi 2019a; for the deliveries to Ebla, see the mu-DU documents, published in ARET XIV.
20 For a picture of the organization of the Old Akkadian period and its government, see Foster 2013: 111–119. According to Steinkeller (2021: 50–51) “the enormous effort and expense of sending their armies to the outer borders of Eastern Asia ... was the goal of controlling ... the main trade routes (so that they) created the first great commercial highway of the Near East”, a thesis stressed in Steinkeller 2022. Sallaberger and Pruß (2015) analyzed the social distinction and the differentiation of the workers at Girsu of Lagaš, and those at Nabada (Tell Beydar) in Syria during the 24th century. For the Ur III Period, see the groundbreaking study in Steinkeller 2015.
21 On the Uruk period, see Algaze 2001. According to Steinkeller (2021, and 2022) international commerce was the main motivation behind the Sargonic expansion. On the activity of the Ur III merchant, see Snell 1975.
The case of lapis lazuli (mentioned above) exemplifies how an exotic good could be obtained by Ebla, more exactly how much through diplomatic relations and how much from the market. Lapis lazuli was extracted in Badakhshan; it reached Mesopotamia in the Kish region, and from there Mari. Ebla received most of it through ceremonial exchanges, but the amounts acquired on the market in the Euphrates valley, west of Mari, were also substantial.

The market factor concerned perhaps two dozen urban centres out of the whole of northern Syria including the Ḥābur region. Its intense activity, well documented by Ebla, must have been based on a large exchange of goods. Notwithstanding that, the disproportion between the inner redistributive sector and inner-regional exchange (not to mention the inter-regional ones) remained very large.

7. PRICES

Dating of the documents: Arrukum (Arr.) was minister in the years 40–36 before the fall of Ebla; Ibrium (Ibr.) in the years 35–18; Ibbi-zikir (I.Z.) in the years 17–01.

### 7.1 Cattle

<table>
<thead>
<tr>
<th>Document</th>
<th>Text</th>
</tr>
</thead>
<tbody>
<tr>
<td>TM.75.1379 (Arr.)</td>
<td>obv. IX 1-4: 5;20 m. kb. nig-sa_10 14 gud ki:lam, NI-ap^ki (a small centre of Ebla), (1 gud = 22.86 sh.)</td>
</tr>
<tr>
<td>TM.75.G.1413 (Arr.)</td>
<td>rev. II 5-7: 156 udu ki:lam, Si-ʾâ-am^ki (a small centre of Ebla)</td>
</tr>
<tr>
<td>TM.75.G.1554 (Arr.)</td>
<td>obv. I 1-4: 5 gin kb. ḫi-mu-DU gud (ált)</td>
</tr>
<tr>
<td>ARET XXI 3 (Ibr. 01)</td>
<td>obv. VII 15-20: 25 g. kb. níg-sa_10 1 gud nídba en ʾÁ-da (1 gud = 25 sh.)</td>
</tr>
<tr>
<td>ARET XXI 6 (Ibr. 03)</td>
<td>rev. XIII 7-8: 2 ma-na kb. níg-sa_10 4 gud (1 gud = 30 sh.)</td>
</tr>
<tr>
<td>ARET XXI 7 (Ibr. 04)</td>
<td>obv. XVII 10-13: 12;11 ma-na kb. níg-sa_10 3 gud ganba ḤĀ-da-da (1 gud = 22.15 sh.)</td>
</tr>
<tr>
<td>ARET XXI 11 (Ibr. 08)</td>
<td>rev. II 6-11: 5 ma-na kb. níg-sa_10 10 gud ḫÁ-di-um ugula ḫī-su-ba-ṭi (1 gud = 30 sh.)</td>
</tr>
<tr>
<td>ARET XXI 12 (Ibr. 09)</td>
<td>obv. VIII 4-9: 1;13 ma-na kb. níg-sa_10 2 gud nídba en ʾÁ-da ḫÁ-da-nî^ki (1 gud = 36.5 sh.)</td>
</tr>
<tr>
<td>ARET XXII 1 (MEE 10, 20) (I.Z. 01)</td>
<td>obv. V 24-28: 30 g. kb. níg-sa_10 20 gud ʾÁ-da-da (1 gud = 30 sh.)</td>
</tr>
<tr>
<td>TM.75.G.2543 (I.Z.)</td>
<td>obv. V 9-10: 25 g. kb. níg-sa_10 2 gud in ḫÁ-da-da^ki (1 gud = 9.73 sh.)</td>
</tr>
<tr>
<td>ARET XXII 14 (Ibr. 10)</td>
<td>rev. VIII 8-12: 10:10 ḫÁ-di-um ʾÁ-da-da (1 gud = 15 sh.)</td>
</tr>
<tr>
<td>ARET XXII 17 (Ibr. 11)</td>
<td>rev. IX 7-10: 10:10 ḫÁ-di-um ʾÁ-da-da (1 gud = 15 sh.)</td>
</tr>
</tbody>
</table>
7.2 Sheep

The documents concerning the agricultural sector distinguish between “(native) sheep”, udu, and “fat-tailed sheep”, gukkal; see e.g. TM.75.G.1187 obv. 1–III 2: 1 gukkal PN₁ / 2 gud 2 gukkal 8 udu PN₂ / 23 gud 15 gukkal PN₃ / 2 gud 5 udu PN₄ / 1 gud 5 udu PN₅ / 1 péš-āb 3 gukkal PN₆ 2 / udu PN₇ 4 udu PN₈. The other administrative documents use only the term udu.

udu-nita sa₆ “ram of good quality”

TM.75.G.1377 (Arr.) obv. IV 6–V 3: 10 gin kb. níg-sa₁₀ udu-nita sa₆ áš-ti Kab-lu-ul
ARET XXI 2 (Ibr. 01) rev. XII 18–XIII 1: 18 gin kb. níg-sa₁₀ 6 udu-nita sa₆ ki:lam, SA.ZA ki (1 udu-nita sa₆ = 3 sh.)

udu-nita “ram”

ARET XXII 6 (I.Z. 07) rev. XIX 13-15: 42 gin kb. 10 udu-nita Ma-ríki (1 = 1½ sh.)
ARET XXII 9 (MEE 12, 37) (I.Z. 10) rev. XXII 24-25: 3 gin kb. níg-sa₁₀ 2 udu-nita (1 udu-nita = 1½ sh)

udu “sheep of good quality”

TM.77.G.730 obv. (Arr.) VI 6-7: 3 ma-na kb. níg-sa₁₀ 100 udu-udu sa₆ (1 udu sa₆ = 1.8 sh.)

udu sa₆ “sheep of good quality”

TM.75.G.1353 (Arr.) rev. III 3-7: 1 ma-na 5 gin kb. 50 m. urudu lú níg-sa₁₀ udu-udu níg-kaskal-sù “1;50 minas (861 g) of silver (and?) 50 minas (23.50 kg) of copper: price of the sheep (which were) the travel provision (for three people who went to the city of Armium)

TM.75.G.1379 (Arr.) rev. II 5–7: 156 udu-udu níg-sa₁₀ 7 Si-ʾà-am “offering of (the city of) Armium”

ARET XXII 6 (I.Z. 07) obv. III 13-16: 1 ma-na kb. níg-sa₁₀ 21 udu-udu nídba Ar-míki “offering of (the city of) Armi”

TM.75.G.10056 obv. III 3–7: 3;15 ma-na kb. níg-sa₁₀ 100 udu-udu (1 udu = 1⅓ sh.) – (níg-sa₁₀) 255 udu in 1 gín kb. (1 udu = 1 sh.)

udu “sheep”

TM.75.G.1353 (Arr.) rev. III 3-7: 1 ma-na 5 gin kb. 50 m. urudu lú níg-sa₁₀ udu-udu níg-kaskal-sù “1;50 minas (861 g) of silver (and?) 50 minas (23.50 kg) of copper: price of the sheep (which were) the travel provision (for three people who went to the city of Armium)

ARET XXII 7 (I.Z. 08) rev. II 11–12: 31 ½ gin kb. níg-sa₁₀ 21 udu-udu Ma-ríki (1 udu = 1½ sh.)

ARET XXII 8 (MEE 12, 35) (I.Z. 09) rev. XIII 16–19: 9;50 m. kb. níg-sa₁₀ 250 udu in 1 gin. 3 šiₐ₈ kb. (1 udu = 1½ sh) – (níg-sa₁₀) 255 udu in 1 gín kb. (1 udu = 1 sh.)

ARET XXII 12 (I.Z. 13) obv. IV 11: 1;25 gín kb. 170 siki na₄ Ma-ríki (1 na₄ = 0.5 sh.)

ARET XXII 18 (Ibr. 15) rev. XIII 8-14: 4/44 ma-na kb. níg-sa₁₀ 340 siki na₄Ma-ríki ki:lam, ŧGa-mi-iš wa ...(1 na₄ = 0.8 sh.)

§ 109: 1;04 ma-na kb níg-sa₁₀ 85 siki na₄ Ma-ríki (1 na₄ sa₆ = 0.7 sh.)

ARET XXII 1 (MEE 10, 20) (I.Z. 01) obv. XIV 23–24: 7;30 ma-na kb. níg-sa₁₀ 720 siki na₄ Ma-ríki (1 na₄ = 0.6 sh.)

ARET XXII 2 (I.Z. 3) rev. III 7–11: 3;10 ma-na kb. níg-sa₁₀ 287 mi-at na₄ siki Ma-ríki ap níg-sa₁₀ 1 (gin) kb. 1 ½ na₄ siki (1 na₄ = 0.7 sh.)

ARET XXII 3 obv XXIII 15–21: 11;14 ma-na kb. níg-sa₁₀ 208 na₄ siki Ma-ríki lú 2 na₄ siki 712 na₄ siki lú 2 na₄ siki 9 bal 150 na₄ siki lú 1½ na₄ siki

ARET XXII 4 (I.Z. 05) rev. XVIII –XVIII 5: 3;53 ma-na kb. níg-sa₁₀ 461 na₄ siki Ma-ríki ap níg-sa₁₀ 1 gin kb. 2 na₄ siki ki:lam, (1 na₄ = 0.5 sh.)

ARET XXII 5 (I.Z. 6) rev. XV 5–9: 6;13 ma-na kb. níg-sa₁₀ 560 na₄ siki Ma-ríki ap níg-sa₁₀ 1 gin ½ na₄ siki (1 na₄ = 0.75 sh.)

ARET XXII 6 (I.Z. 7) rev. XVIII 18–XIX 4: 55 gin kb. 110 na₄ siki Ma-ríki ap níg-sa₁₀ 1 gin kb. 2 na₄ siki (1 na₄ = 0.5 sh.)

7.3 Wool

TM.75.G.1353 (Arr.) obv. VI 5-7: 40 gin kb. níg-sa₁₀ 25 na₄ siki sa₆ (1 na₄ sa₆ = 1.6 sh.)

TM.75.G.1377 (Arr.) obv. III 5-7: 1;41 ma-na kb. níg-sa₁₀ 100 na₄ siki sa₆ (1 na₄ sa₆ = 1 sh.)

TM.75.G.2424(+) (Arr.) obv. VI 8-12: 12 gin kb. 15 na₄ siki áš-ti Ìr-ra-ku “offering of (the city of) Armi”

ARET XXI 16 (Ibr. 13) obv. III 21–IV1: 1;25 gin kb. 170 siki na₄ Ma-ríki (1 na₄ = 0.5 sh.)

ARET XXI 18 (Ibr. 15) rev. XIII 8-14: 4/44 ma-na kb. níg-sa₁₀ 340 siki na₄ Ma-ríki ki:lam, ŧGa-mi-iš wa ...(1 na₄ = 0.8 sh.)
8. CONCLUDING CONSIDERATIONS

The wool measures at Ebla were: *zi-rí*; “KIN”; and *na₄*, which stood respectively on a 1 : 2, and 1: 2 ratio (Zaccagnini 1984). The weight of a single fleece is estimated of ca 0.780 kg.

According to TM.75.G.2417 rev. XIV 12–XVI 15, 1 *zi-rí* (i.e. 4 *na₄*) of wool was given to the person performing the offering rite to the god Kura; the bridles and the harnesses of the four oxen hitched to the wagon which brought the royal couple to the sanctuary of NEnas for the wedding ritual needed 1 *na₄* and 1 “KIN” (2 *na₄*) of wool respectively. The opening of the gate of the sanctuary of the goddess Ganana required a further 1 *zi-rí* of wool. The two “shawls”, *maš-da-bù* (*maštāpu*), of black and white wool which the king and queen had to wear in that ceremony needed another 1 *zi-rí* (Archi 2021: 11, 16).

Minister Ibrium’s chariot needed 5 “KIN” of wool, according to ARET XIX 6 § 22. The brother of minister Ibrium’s father received 2 “KIN” of wool, as well as the spouses respectively of three and five officials, ARET XIX 6 §§ 19, 10, 12; while four of the king’s daughters received 4 “KIN” each (§ 24).

According to the monthly document ARET XIX 16 §§ 47–48 the seven “cooks”, *muḫaldim*, (of the Palace), received 1½ “KIN” (= 3 *na₄*) measures of wool each, while an unspecified number of cooks from the “outskirts”, *eri-bar*, received altogether 10 “KIN” measures. According to ARET XIX 6 (another monthly document) § 23, the same seven “cooks” received 2 “KIN” each. ARET XX 2 § 34 (period of minister Ibrium) concerns a distribution of one “KIN” measure of wool to each of 5,001 men, mostly grouped in “gangs”, *ìr-a-núm*, who were usually employed in military expeditions. Among the recipients were also some of the king’s son, “Elders”, *ábba*, “overseers”, *ugula*, “representatives”, *maškim*, and personnel of the Palace, such as the “cooks”, *muḫaldim*, and “metalworkers”, *simug*.

These deliveries seem to have been annual.

Hundreds of monthly documents register annual expenditures of garments as gifts to members of the court and representatives of other cities, in addition to wool for the personnel. The deliveries to the “men”, *guruš*, assigned to the *ir-a-núm* could also alternately consist of garments (e.g. ARET XX 8 § 36), and of wool in the amount of 2½ “KIN” (that is three *na₄*) as in ARET XX 9 §§ 33–45; this is the same amount received by the personnel of the Palace, which included: “representatives, singers, cooks, metalworkers, carpenters” (§§ 48–53). According to ARET XX 12 §§ 11–17, 17 §§ 1–10, and 19 §§ 1–13, more than half of the men of each *ir-a-núm* received garments, while the other men got three *na₄* of wool each; the same amount was received by the Palace personnel registered in the following sections. The “women”, *dam*, of the Palace and its workshops received instead one “KIN” (i.e. 2 *na₄*) of wool each, with some exceptions. such as the seventeen senior women at the service of the queen, who received three *na₄*; while her twenty-seven “junior servants”, *dam pa₄-leš tur*, received only two *na₄* (rev. VII 33–VIII 7).
State Production and Market at Ebla – Animal and Wool Values

Based on these values, a possible hypothesis is that one na₄ measure, that is, a “stone”, could have been more or less the equivalent of one mina. Several passages distinguish between a “big” and a “small” na₄: mahl / tur, which could have hypothetically corresponded to the Mesopotamian and the Syrian mina weighing 470 g and 505 g respectively. Accepitng these values, it would seem that the allotments of wool given as remuneration to the working dependents at Ebla was a bit lower than what workers received in Mesopotamia during the Sargonic period, when men received four or five minas; that is, between 2 to 2.5 kg of wool.

Whichever estimate is accepted, one na₄ of “good quality”, sa₆, wool was valued at either 1.6, 1, or 0.8 shekels each; the other wool at 0.7 or 0.6 shekels (see 7.3 above).

9. PRICES AT EBLA AND AT UR III: A COMPARISON

A comparison between the prices of animals and wool at Ebla and those of the Ur III period in Mesopotamia presents different scenarios that are difficult to explain, even more so if one considers that the mina of Ebla weighed 470 g and the Mesopotamian mina was 505 g.

The price of “cattle”, gu, was considerably lower: at Ebla it varied mostly between 20 and 30 shekels, reaching in two cases 1 mina. At Ur III it varied between ⁵⁄₆ and 1 mina; a cow, áb-ma₄, was worth between ⅔ and ⁵⁄₆ of a mina (Cripps 2019a: 62–63, 60–61).

The prices of sheep (and goats) were extremely low at Ebla in comparison. A “ram”, udu-ma₄, was worth between 3 shekels and 1½ shekels. The price of a “good sheep”, udu ša₆, was of 1¾ shekels, and that of a “sheep”, udu, varied between 1 shekel and 1½ shekels. At Ur III, the value of a sheep or a goat, udu-ma₄, was usually 14 shekels, reaching in some cases 30 shekels (Cripps 2019a: 58–59).

The Ebla values are, therefore, not compatible with those from the Ur III period, at least according to the evaluation of the Administration. Furthermore, wool fluctuated in Ur III between the ratio of 1 mina: 8 shekels, and 1 mina: 12 shekels (Cripps 2019b: 28-33).

BIBLIOGRAPHY


23 Passages mentioning these two different minas are listed in ARET XX: 274.
24 Foster 2014: 119. Gelb (1965: 236) attributes 4 minas to the men and 3 minas to the women in the Ur III period.


Archi A. 2022b, *Annual Documents of Deliveries (mu-DU) to the Central Administration (Archive L. 2769)* (Archivi Reali di Ebla XIV), Wiesbaden, Harrassowitz.


Fig. 1. TM.75.G.2306.

Fig. 2. TM.75.G.2538.