

Fashionable Outfits: Assessing the Socio-historical Value of Textile Sets at Ebla through Textual Pattern Recognition

Of Numbers and Magnitudes. Measure and Value at Presargonic Ebla. Workshop of the Rome Research Unit of the PRIN 2017 “Big DEA”, Roma, 31 March – 1 April 2022

Erica Scarpa

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1 Introduction

1.1 Textiles, garments, fabrics



Figure 1: Most frequently used terms in textiles-related bibliography (English only; LDA topic modeling on a group of twenty papers, mostly published in the 2000s).

- **Cloth:** «a pliable material made usually by weaving, felting, or knitting natural or synthetic fibers and filaments».¹ However, *clothes* and *clothing* refer to «items designed to be worn to cover the body».
- **Textile:** «a cloth» (as described above).² In a broader sense, this definition also includes items not used for clothing such as nets or felts.
- **Garment:** «an article of clothing».³ Contrary to ‘cloth’, the term specifically refers to an item of apparel.
- **Fabric:** «a cloth» (in the same sense of ‘textile’).⁴

¹Merriam-Webster, s.v. *cloth*, <https://www.merriam-webster.com/dictionary/cloth>.

²Merriam-Webster, s.v. *textile*, <https://www.merriam-webster.com/dictionary/textile>.

³Merriam-Webster, s.v. *garment*, <https://www.merriam-webster.com/dictionary/garment>.

⁴Merriam-Webster, s.v. *cloth*, <https://www.merriam-webster.com/dictionary/fabric>.

«Based on the current state of knowledge, we argue that buying clothing cannot automatically be equated to the purchase of grain or metals in antiquity. Transportation cost is the first major difference since textiles are light (as opposed to metals) and not readily perishable (as opposed to food). The intimate, identity shaping and tactile qualities of textiles and garments make them form a singular category of goods[.] [...] [T]he long production time and complex craft required induce a strong component of trust and personal relationship between producer, seller, buyer and wearer; a quality textile is an item of investment, and the possibility to re-sell it as a second hand product is again more comparable to metals and furniture than to grain, oil or wine.» (Dross-Krüpe and Nosch 2016, 319)

2 Methodology

- data gathering (all documents are extracted from the *EbDA* database, <http://ebda.cnr.it>);
- pre-processing (removing epigraphic notations, brackets, etc.);
- n -gram extraction;
- selection of relevant n -grams.

2.1 n -grams

An n -gram is a sequence of n elements in a text. The nine-words sentence below comprises seven trigrams:

Table 1: Tri-grams applied to a sentence.

| | | | | | | | | | |
|---|-----|-------|-------|-----|-------|------|-----|------|-----|
| 1 | The | quick | brown | | | | | | |
| 2 | | quick | brown | fox | | | | | |
| 3 | | | brown | fox | jumps | | | | |
| 4 | | | | fox | jumps | over | | | |
| 5 | | | | | jumps | over | the | | |
| 6 | | | | | | over | the | lazy | |
| 7 | | | | | | | the | lazy | dog |

3 Accounting Models: Sets for Humans

3.1 Cloak, tunic, belt

Table 2: *ARET* I, 1-9. See also Bonechi (1990).

| | | | |
|---------------|-----------------|------------|---|
| TM.75.G.2525 | <i>ARET</i> I 1 | Ibbi-zikir | iti <i>za</i> -LUL (IX) |
| TM.75.G.10016 | <i>ARET</i> I 2 | Ibrium | iti MA×GANA ₂ <i>tenû</i> -GUDU ₄ (XII) |
| TM.75.G.1443 | <i>ARET</i> I 3 | Ibbi-zikir | iti MA×GANA ₂ <i>tenû</i> -GUDU ₄ (XII) |
| TM.75.G.10256 | <i>ARET</i> I 4 | Ibbi-zikir | - |
| TM.76.G.530 | <i>ARET</i> I 5 | Ibrium | iti <i>za</i> -LUL (IX) |
| TM.75.G.2590 | <i>ARET</i> I 6 | Ibbi-zikir | iti <i>za</i> -LUL (IX) |
| TM.75.G.1828 | <i>ARET</i> I 7 | Ibbi-zikir | - |
| TM.75.G.1591 | <i>ARET</i> I 8 | Ibbi-zikir | iti <i>za</i> -LUL (IX) |
| TM.75.G.10055 | <i>ARET</i> I 9 | Ibrium | iti <i>za</i> -LUL (IX) |

Table 3: Summary of the recipients of set 3.1.

| Leader | | Group 1 | | Group 2 | | | | |
|----------|------------------|---------|----------|--|----------|---|----------|-----------------------------------|
| textiles | en | GN | textiles | high representatives (<i>abba</i> ₂) | textiles | up to 20 men (<i>guruš</i> or <i>maškim</i>) | textiles | watchmann (<i>ma-za-lum</i>) |
| | <i>ba-da-lum</i> | | | | | | | |
| | <i>ugula</i> | | | | | | | |
| | ∅ | | | | | | | |

3.1.1 $\text{'}a_3\text{-}da\text{-}um^{\text{tug}_2}\text{-I/-II}$ Cloak

Also written $\text{'}a_3\text{-}da^{\text{tug}_2}$, $\text{'}a_3^{\text{tug}_2}$. Interpreted as “cloak” or “robe”. The numeral might indicate that it was single (-I) or ‘folded’ (-II). Archi (1999, 311; 1985, 227) also suggested a meaning related to the weaving technique. Etymology may be related to Ug. **hul*, “swaddling band; nappy”, from a root characterizing wrapped clothes (Pasquali 1997, 218).

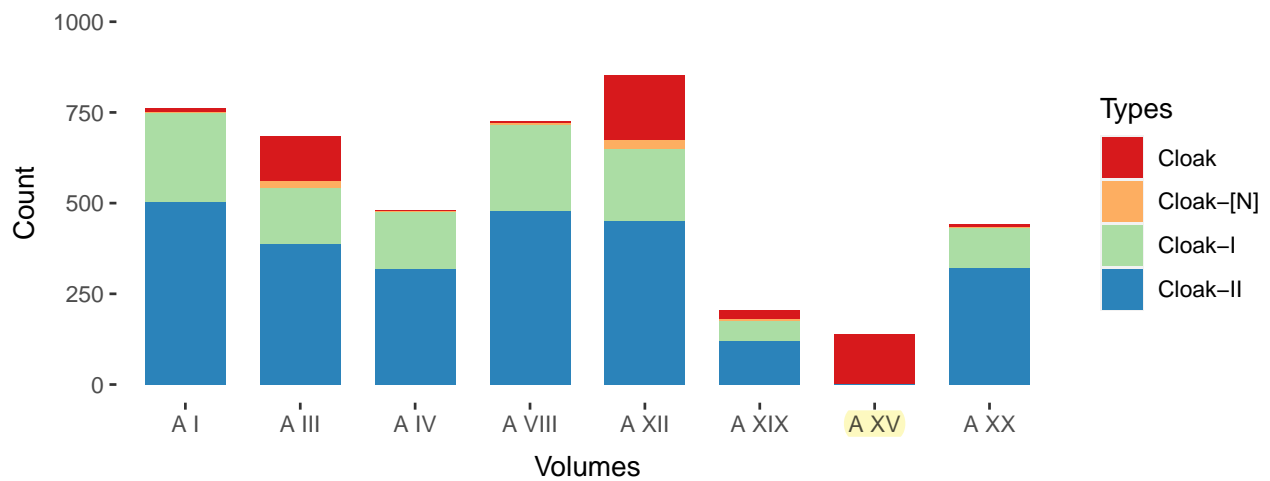
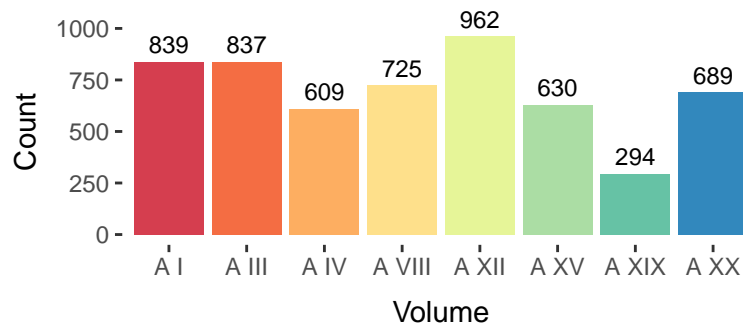


Figure 2: Distribution of the occurrences of the term in the administrative corpus

3.1.2 $\text{aktum}^{\text{tug}_2}$ tunic

“Tunic”; “a long robe or a skirt”.⁵ The *aktum* was made of sheep fleece, decorated with tufts of wool in the shape of large leaves (*kaunakés*) (Jones 2007, 223). Women can be among the recipients. Attested in the *VE* 596 (not glossed).

Figure 3: Distribution of the occurrences of the term *aktum* in the administrative corpus.

⁵Archi (1999), 311; Sallaberger (2009), 257.

| Life-span of the Archives during the reigns of Irkab-damu and Iš'ar-damu | | | | |
|--|--------------|------------|------------|---------|
| Irkab-damu | | Iš'ar-damu | | kings |
| 11(+1?) years | | 35 years | | |
| Darmia and Tir | | Ibrium | | viziers |
| 7 years | ArruLUM | 18 years | Ibbi-zikir | |
| | 4(+1?) years | | 17 years | |

Table 4: Chronological chart of Ebla's kings and viziers. After Archi and Biga 2003 and Archi 2016.

3.1.3 $ib_2^{tug_2}$ Waistbands

A waistband.⁶ The term ib_2 (lit. “hips”) appears in the *VE* (867): $ib_2 / ga-ba-a$, prob. /qablā(n)/ “the two hips”.⁷ Various translated as “fascia” or “cintura”. In most cases followed by a numeral between 3 and 6. The scribes described them as “of good quality” (sa_6) and/or “embroidered” (gun_3). The latter is also interpreted as “multicolored”, but see Durand (2013, 21–22) on the meaning of *barāmu*.

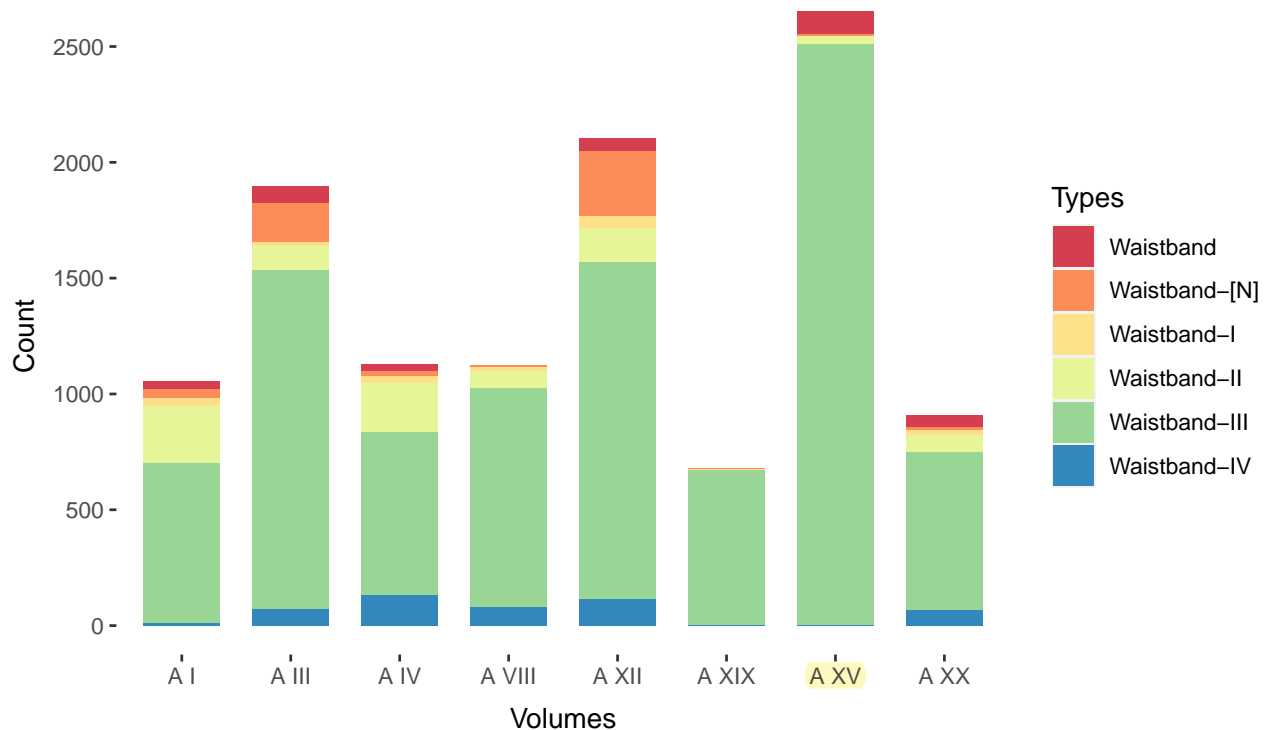


Figure 4: Distribution of the occurrences of the term $ib_2(-N)$ in the administrative corpus.

[1] [75.10256 = A I 4] obv.II:6-10: 1 a_3 -*da-um*^{tug₂}-II 1 *aktum*^{tug₂} 1 ib_2 -III^{tug₂} sa_6 gun_3 / en / *bur-ma-an*^{ki} / 2 a_3 -*da-um*^{tug₂}-II 2 a_3 -*da-um*^{tug₂}-I 4 *aktum*^{tug₂} 2 ib_2 -III^{tug₂} sa_6 gun_3 2 ib_2 -III^{tug₂} gun_3 / *abba*₂-*SU*₃; «1 double cloak, 1 tunic, 1 embroidered waistband of good quality, (for) the king of Burman; 2 double cloaks, 2 single cloaks, 4 tunics, 2 embroidered waistbands of good quality, 2 embroidered waistbands, for his high representatives.»

⁶Waetzoldt (1980–1983), 23, “Gürtel aus Wolle, Leder und Metall für Menschen, Dämonen, und Gottheiten.”

⁷Hajouz (2013), 541-542 with bibliography; see recently Bonechi and Catagnoli (2020), 167.

3.2 Woolen cheap cloth, fine textile, waistband

3.2.1 GU.MUG^{tug₂}, woolen cheap cloth

A woolen cheap cloth, perhaps made with wool leftovers. Attested in *VE* 862 (not glossed). Recipients are of different status.⁸ “An article of clothing certainly very simple, perhaps a kilt, originally made of shoddy wool (mug);”⁹ “‘Wollrest-Faden’-Tücher”.¹⁰ It rarely appears as GU.MUG^{tug₂}-I. Pasquali (2016), drawing from Civil (1984, 85–86), suggests the reading *gu-mug^{tug₂}* (?).

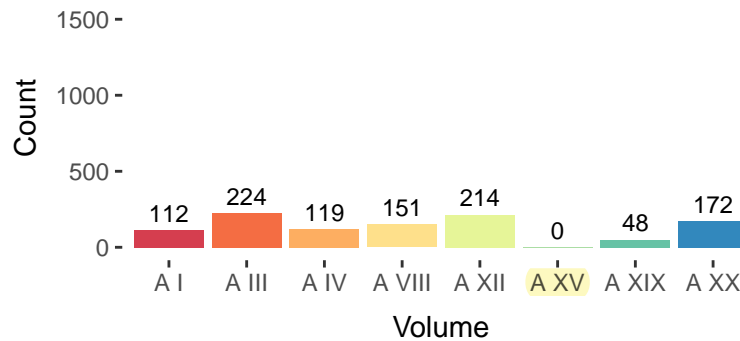


Figure 5: Distribution of the occurrences of the term GU.MUG in the administrative corpus.

3.2.2 sal^{tug₂}, fine textile

Uncertain meaning. The term appears in the eš₂-bar-kin_x unilingual compositions (*M* 15 27, rev.II:3’). It may be related to Sum. *tug₂-sal-la* / Akk. *raqqatu*, “a fine textile” (often mentioned in Old Babylonian documents; see *CAD* R (1999), s.v. *raqqatu* A, 167-170).

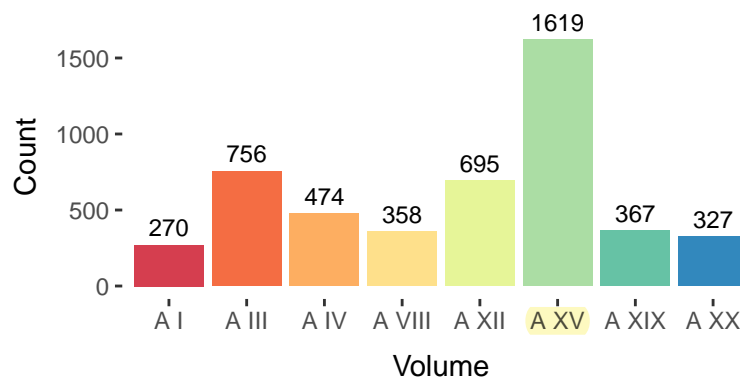


Figure 6: Distribution of the occurrences of the term sal in the administrative corpus.

[2] [76.530 = A I 5] obv.XIII:6-XIV:4: 1 gu-dul₃^{tug₂} 1 aktum^{tug₂} 1 ib₂-II^{tug₂} gun₃ / iš-ma₂-ga-lu / 3 GU.MUG^{tug₂} 3 sal^{tug₂} 3 ib₂-III^{tug₂} gun₃ / zi-mi-a-ḫu / iš-da-ma₂ / šu-ma-lik / dumu-nita-SU₃ / 1 ’a₃-da-um^{tug₂}-I 1 aktum^{tug₂} 1 ib₂-III^{tug₂} sa₆ gun₃ / ’a₃-da-ša / 6 GU.MUG^{tug₂} 6 sal^{tug₂} 6 ib₂-I^{tug₂} gun₃ / bu₃-ma-u₃ / NI-bu₃-ul-NI / en-na-ma-lik / NI-zi-ma-NI / a-bu₃-ma-lik / NE.DI / ib-hur-i₃ / lu₂-g₃; 1 cloak[?], 1 tunic, 1 embroidered waistband, (for) **Išmagalu**; 3 woolen cheap cloths, 3 fine textiles, 3 embroidered waistbands, (for) Zimi-aḫu, Išdama, Šu-malik, his apprentices; 1 single cloak, 1 tunic, 1 embroidered waistband of good quality, (for) **’Adaša**; 6 woolen cheap

⁸Biga (2010), 158.

⁹Archi (1999), 313.

¹⁰Sallaberger (2009), 256.

cloths, 6 fine textiles, 6 embroidered waistbands, (for) Buma'u, NIBulNI, Enna-malik, NIzimaNI, 'Abu-malik, dancers, (and) Ibhur-i(l) the flute player.»

3.3 Cloak, tunic, waistband, and earrings¹¹

[3] [75.2334 = A XX 25] obv.XII:13-XIII:16: 1 'a₃-da-um^{tug_s}-II 1 aktum^{tug_s} 1 ib₂-II^{tug_s} sa₆ gun₃ / 2 geštug_x-la₂ 2 ku₃-gi / a-ba-ga / lu₂ ib-ri₂-um / nig₂-mul / ru₁₂-zi-ma-lik / dumu-nita / i-bi₂-zi-kir / TUŠ.LU₂×TIL / in / za-bur-rum₂^{ki} / MA-LIK-TUM / in-na-sum / 1 'a₃-da-um^{tug_s}-II 1 aktum^{tug_s} 1 ib₂-III^{tug_s} sa₆ gun₃ / 2 geštug_x-la₂ 3 ku₃-gi / a-ba-ga / en / i₃-na-sum; «1 double cloak, 1 tunic, 1 embroidered waistband of good quality, 2 earrings (of the value of) 2 (shekels of) gold, (for) **Abaga** of (the household of) Ibrum, (for bringing the) news (that) **Ruzi-malik**, Ibbi-zikir's son, occupied Zaburru, **the queen has given**; 1 cloak, 1 tunic, 1 embroidered waistband of good quality, 2 earrings (of the value of) 3 (shekels of) gold, (for) Abaga, **the king has given**.»

[4] [75.1264 = A I 15 = M 2 3] obv.II:18-IV:9:¹² <1 'a₃-da-um^{tug_s}-I> / 1 aktum^{tug_s} / 1 ib₂-IV^{tug_s} sa₆ gun₃ / ½ ku₃-gi / 2 geštug_x-la₂ / na-am₆-ha-lu / 1 'a₃-da-um^{tug_s}-I 1 aktum^{tug_s} 1 ib₂-IV^{tug_s} sa₆ gun₃ / ½ ku₃-gi / 2 geštug_x-la₂ / su-na-im / šu-i / 1 'a₃-da-um^{tug_s}-I 1 aktum^{tug_s} 6 1 ib₂-IV^{tug_s} sa₆ gun₃ / ½ ku₃-gi / 2 geštug_x-la₂ / il₂-e-i-šar / lu₂ a-ga / 1 'a₃-da-um^{tug_s}-II / 1 aktum^{tug_s} 1 ib₂-IV^{tug_s} sa₆ gun₃ / 1 ku₃-gi / 2 geštug_x-la₂ / ra-i-zu₂ / 1 zara₆^{tug_s} 10 ku₃:bar₆ 2 BU-DI / dam-SU₃ / zi-ga / MA-LIK-TUM lu₂ tu-da; «1 tunic, 1 embroidered waistband of good quality, ½ golden (shekel), 2 earrings (for) **Na'am-halu**; 1 cloak, 1 tunic, 1 embroidered waistband of good quality, ½ golden (shekel), 2 earrings (for) **Šu-na'im**, the barber; 1 tunic, 1 embroidered waistband of good quality, ½ golden (shekel), 2 earrings (for) **Il'e-išar**, of (the household of) Agga; 1 cloak, 1 tunic, 1 embroidered waistband of good quality, ½ golden (shekel), 2 earrings (for) **Ra'izu**; 1 zara₆ garment, 10 shekels of silver, 2 toggle-pins, (for) his **wife**[?], ... the queen who gave birth.»¹³

3.4 Cloak, tunic, belt, sheath, and precious items

3.4.1 GU-ZI-TUM^{tug_s} woolen cloak

Also written GU-ZI^{tug_s}, GU^{tug_s}.¹⁴ A woolen cloth; an Akkadogram possibly related to Akk. *kusitum*, “an elaborate garment.” Its meaning is certainly related to the root *kry, “to cover oneself”.

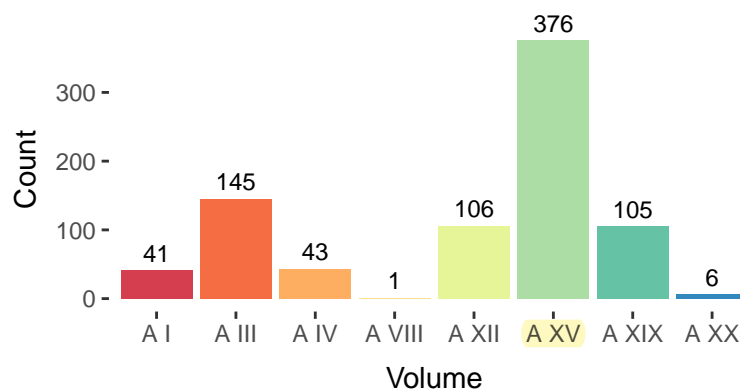


Figure 7: Distribution of the occurrences of the term in the administrative corpus.

¹¹Catagnoti (2019).

¹²On valets, see Archi (1996). All names appearing in this passage are associated with this profession.

¹³On zi-ga, see Samir (2019), 269, with bibliography.

¹⁴Pasquali (1997), 240 and n113. On *kusitum*, see CAD K, (1971), 585.

3.4.2 zara₆^{tuḡ} tunic

A garment for adults, most often delivered to women. Probably a long tunic, similar to the aktum. Also a gift for brides upon marriage.

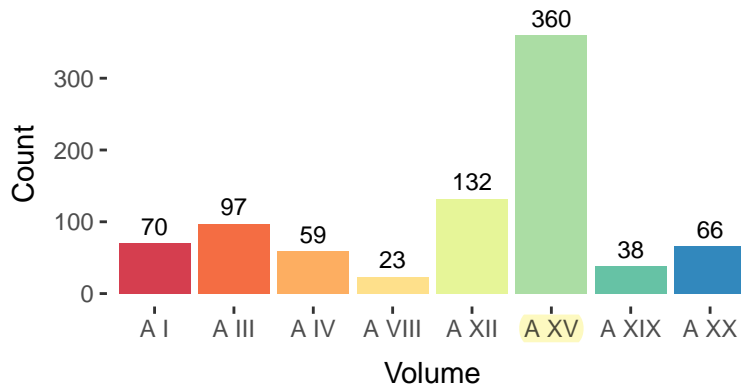


Figure 8: Distribution of the occurrences of the term zara₆ in the administrative corpus.

3.4.3 ib₂-la₂ (ceremonial) belts and si-ti-tum sheaths

Ceremonial belts (ib₂-la₂) are often paired with a sheath (si-ti-tum). As for the latter, Pasquali (2005, 175–76; 2020, 409) suggests a connection with the root *sdl, “to let loose, to lower, to let fall.”¹⁵

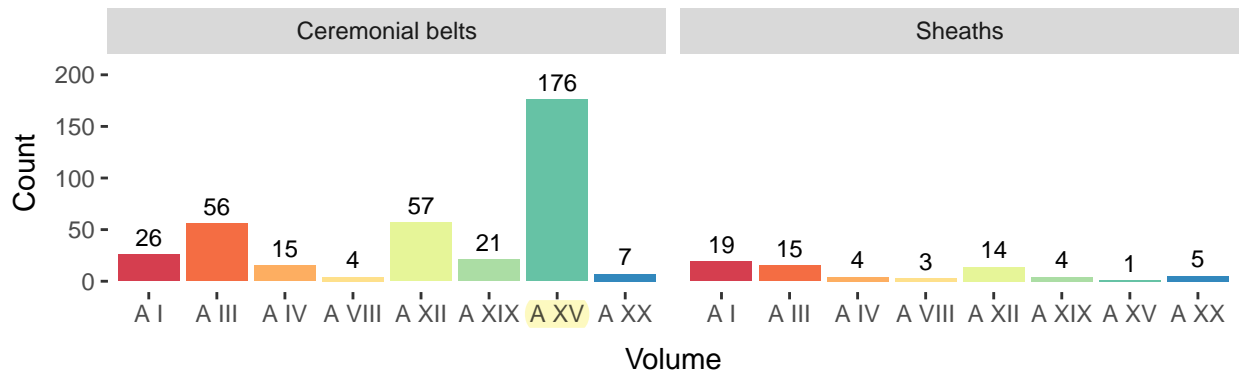


Figure 9: Distribution of the occurrences of ceremonial belts and sheaths in the administrative corpus.

[5] [75.1347 = A XV 7] obv.VIII:11-13: 1 'GU'-ZI-TUM^{tuḡ} 1 zara₆^{tuḡ} 1 ib₂-III sa₆ gun₃ 1 ib₂-la₂ ku₃:bar₆ / dumu-nita en / ma-nu-wa-ad^{ki} / 1 GU-ZI-TUM^{tuḡ} 1 aktum^{tuḡ} 1 ib₂-III sa₆ gun₃ / maškim-SU₃; «1 woolen cloak, 1 zara₆ tunic, 1 embroidered waistband of good quality, 1 silver ceremonial belt, (for) the son of the king of Manuwat; 1 woolen cloak, 1 aktum tunic, 1 embroidered waistband of good quality for his appointee.»

3.5 Tunic, toggle-pins (and precious items)

[6] [75.2512 = A XX 8] obv.XI:6-11: 1 'a₃-da-um^{tuḡ}-II 1 aktum^{tuḡ} 1 ib₂-II^{tuḡ} sa₆ gun₃ / 1 ib₂-la₂ 1 si-ti-tum 1 gir₂-kun TAR ku₃-gi / en / NI-ra-ar^{ki} / 4 zara₆^{tuḡ} 2 BU-DI šu₂+ša ku₃:bar₆ 2 BU-DI 10 ku₃:bar₆ / 4 dumu-mi₂-SU₃; «1 double cloak, 1 tunic, 1 embroidered waistband of good quality, 1 ceremonial belt, 1 sheath, 1 dagger

¹⁵See also Kogan (2015), 95n288.

(of the value of) 30 (shekels of) silver (=set 3.4), (for) the **king of Nīrar**; 4 zara₆ tunics, 2 toggle-pins (of the value of) 20 (shekels of) silver, 2 toggle-pins (of the value of) 10 (shekels of) silver, (for) **his 4 daughters**.»

[7] [75.1443 = A I 3] rev.VI:1-VII:10: 1 zara₆^{tug₂} 2 BU-DI šu₂+ša ku₃-gi / ṛa¹-zi-mu / 1 zara₆^{tug₂} 2 BU-DI ša-pi ku₃:bar₆ 2 sag ku₃-gi / maš-za-du / 13 zara₆^{tug₂} 26 BU-DI ŠU₂+ŠA ku₃:bar₆ / ti-a-bar-zu / daš-ma₂-da-mu / da-bir-ma-lik / tal-du-ud / kir-su-ud / dar-am₆-ma-lik / da-na-lugal / a-nu-du / du-zi-i-šar / du-bil₂-ma-lik / dumu-mi₂ / ib-ri₂-um / DAM.DINGIR / wa / daš-ma₂-zi-kir / dumu-mi₂ / i-bi₂-zi-kir / 1 dam / zi-m[i-na-m[a-lik] / 1 zara₆^{tug₂} 2 BU-DI 17 ku₃:bar₆ / ma-u₃-du / 1 dam / i-bi₂-zi-kir / lu₂ sa₂-gu₂-šum / in ud / nig₂-mu-sa₂ / bur-KAK / ti-iš-te-da-mu / dumu-mi₂ en; «1 tunic, two toggle-pins (of the value of) 20 (shekels of) silver, (for) **Azimu** (= Ibbi-zikir's mother); 1 tunic, two toggle-pins (of the value of) 40 (shekels of) silver, (with) two golden 'heads', (for) **Mašadu** (= Ibbium's daughter); 13 tunics, 26 toggle-pins (of the value of) 20 (shekels of) silver, (for) **[13 female relatives of Ibbium]**, 1 tunic, two toggle-pins (of the value of) 17 (shekels of) silver, (for) **Ma'ud**, wife of Ibbi'zikir of (the household of) Sagušum, on the day of the bridewealth (payment and) the bur-KAK (rite; = marriage agreement) of royal daughter Tište-damu.»

3.5.1 tug₂-NI.NI, soft textile

Also written tug₂-NI|NI. The term appears in the unlingual lexical documents (*M* 15 27, rev.III:31).¹⁶ Uncertain translation. A robe or shawl worn by women and religious personnel. Sallaberger (2009, 270) suggests the reading tug₂-DIG.DIG, “soft cloth” (dig = Akk. *narābu*, “to become moist, soft”; *CAD* N [1980], 342).

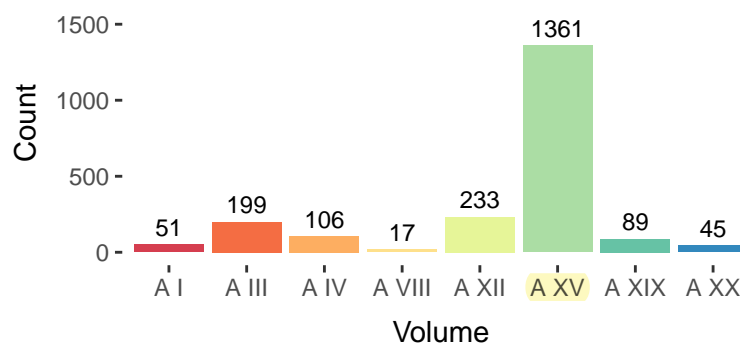


Figure 10: Distribution of the occurrences of the term for soft textile in the administrative corpus.

4 Accounting Models: Sets for the Gods

4.1 Tunic, hooked² dagger for Nīdabal of Ḥamat

[8] [76.530 = A I 5 = M 5 10] rev.IV:6-8: 1 aktum^{tug₂} 1 gir₂ mar-tu ṛzu₂¹-ak / dingirNI-da-bal_x / ṛa₃-ma-du^{ki}; «1 tunic, 1 Amorite hooked² dagger, (for) **Nīdabal of Ḥamat**.»

Cloak, tunic, belt; table, dagger, javelin for Nīdabal of Ḥamat

[9] [75.2590 = A I 6] rev.V:5-16: 4 ṛa₃-da-um^{tug₂}-II 4 aktum^{tug₂} 4 ib₂-IV sa₆ gun₃ / 1 gir₂ mar-tu 1 gišbanšur 1 gišgukak-gid₂-šub / ṛa₃-zi / lu₂ la₂-a-LUM / ṛa₃-daš-šē₃ / en-na-ma-gu₂ / du-bi₂ / [ŠEŠ.II.IB] / ir-me / 1 aktum^{tug₂} 1 gir₂ mar-tu / dingir²a₅-da-bal_x / ṛa₃-ma-du^{ki}; «4 double cloaks, 4 tunics, 4 embroidered waistbands of good quality, 1 Amorite dagger, 1 table, 1 javelin, (for) **'Azi of (the household of) La'alum, 'Adaše, Enna-magu, Dubi**, [(litter) porters] (during) the *irme* (festival); 1 tunic, 1 Amorite dagger, (for) **Nīdabal of Ḥamat**.»

¹⁶Archi (1999), 316

4.2 Soft textile, golden bracelets¹⁷ for KUra

[10] 75.1399 = A XV 16]: 1 tug₂-NI.NI 2 gu₂-li-lum 6 2-NI ku₃-gi / nig₂-ba / ding^{gir}KU-ra; «1 soft textile, 2 golden bracelets (of the value of) 6+2-NI (shekels), gift (for) KUra.»

Waistbands; Soft textile and bracelets for KUra

[11] [75.1274 = A I 13] rev.III:4-IV:6: 2 ib₂-IV gun₃ tug₂ / 1 KIN siki / en-na-i₃ / šeš-pa₄ / ding^{gir}KU-ra / a:tu₂₂ / e₂-en / 2 ib₂-II sa₆ gun₃ / 'a₃-da-še₃ / lu₂ ga-ba-am₆'' / du-bi₂ / lu₂ za-ḥa-li₂''-a / ŠEŠ.II.IB / keš₂-da / SA.ZA_x^{ki} / nidba₂ / ding^{gir}KU-ra / 1 tug₂-NI.NI 1 gu₂-li-lum / nig₂-ba / ding^{gir}KU-ra / 1 tug₂-NI|NI 1 ib₂-III^{tug₂} gun₃ / 5 zi-ri₂ siki / ŠUBUR / du₁₁-ga / i-sa-i / 5 zi-ri₂ siki / da-mi-mu; «2 embroidered waistbands, 1 KIN of wool (for) Enna-il, valet of the god KUra, (for) the purification of the palace of the king; 2 embroidered waistbands of good quality, (for) 'Adaše of (the household of) Gabam (and) Dubi of (the household of) Zaḥali'a, (litter) porters bounded³ to the SA.ZA, for the offer to KUra; 1 soft textile, 1 bracelet, gift (for) KUra; 1 soft textile, 1 embroidered waistband, 5 zi-ri₂ of wool, for ŠUBUR, the prayer for good fortune; 5 zi-ri₂ of wool for the reciter.»

Semitic gloss of VE 236

VE 236, IB.ŠEŠ.II mi₂-du₁₁ / ga-ma-lu-um IB.ŠEŠ.II (M 4, 24, obv.IV:5-6) from *gamālum*, “to get along with, to be in agreement as the ŠEŠ.II. IB (‘[litter] porters’) do.”¹⁸



Figure 11: A traditional Korean palanquin (a covered litter, *gama*). Image from https://www.kenharker.com/photos/2008_korea/korean_folk_village/.

¹⁷Pasquali (2005), 137-138.

¹⁸Tonietti (2016), 88; see also Biga (2020).

5 Totals

| Volume | Cloaks | Tunics | Soft textiles | Fine textiles | Bands | Waistbands | Woolen cheap cloths | |
|-------------------|--------|--------|---------------|---------------|-------|------------|---------------------|---------|
| <i>A I</i> (15) | 1709 | 1863 | 26 | 1095 | 18 | 2436 | 342 | |
| <i>A IV</i> (19) | 1033 | 834 | 53 | 688 | 12 | 2961 | 185 | |
| <i>A VIII</i> (5) | 381 | 329 | 15 | 383 | 2 | 833 | 77 | |
| <i>A XV</i> (40) | 2032 | 1185 | 1837 | 2659 | 8 | 3458 | - | |
| <i>A XX</i> (13) | 1302 | 8458 | 30 | 9758 | 22 | 14766 | 1916 | |
| <i>A XIX</i> (15) | 830 | 471 | 100 | 670 | 25 | 1095 | 80 | |
| 107 months (~9y) | 7287 | 13160 | 2061 | 15174 | 87 | 25549 | 2600 | = 66007 |

5.1 Structures of partial sums (AN.ŠE₃.GU₂)

| Type 1 - ArruLUM | Type 2 - Ibrium/Ibbi-zikir |
|--|---|
| | (raw wool sums) |
| <i>GU-ZI-TUM</i> ^{tug₂} | <i>GU-ZI-TUM</i> ^{tug₂} , 'a ₃ -da-um ^{tug₂} -II |
| zara ₆ ^{tug₂} | gu-dul ₃ ^{tug₂} , a ₃ -da-um ^{tug₂} -I, gada ^{tug₂} |
| aktum ^{tug₂} | aktum ^{tug₂} |
| gu-dul ₃ ^{tug₂} | zara ₆ ^{tug₂} |
| tug ₂ -gun ₃ | gid ₂ ^{tug₂} |
| tug ₂ -NI.NI | tug ₂ -NI.NI |
| sal ^{tug₂} | nig ₂ -la ₂ -sag |
| ib ₂ -III (colored, sa ₆ gun ₃ , gun ₃) | nig ₂ -la ₂ -DU |
| (precious items) | sal ^{tug₂} |
| (month) | ib ₂ ^{tug₂} sag |
| | ib ₂ ^{tug₂} -IV (colored, sa ₆ gun ₃ , gun ₃) |
| | ib ₂ ^{tug₂} -III (colored, sa ₆ gun ₃ , gun ₃) |
| | ib ₂ ^{tug₂} -II (colored, sa ₆ gun ₃ , gun ₃) |
| | (šu-nigin ₂ ; total sums) |
| | gu-mug ^{tug₂} |
| | (month) |

5.2 Grid Plots



Figure 12: Distribution of the occurrences of all garments grouped according to volumes (top) and chronological data (bottom).

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