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Hittite Vocabulary:
*An Anatolian Appendix to Buck's Dictionary of Selected
Synonyms in the Principal Indo-European Languages*

A dissertation submitted in partial satisfaction of the
requirements for the degree Doctor of Philosophy
in Indo-European Studies

by
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LIST OF ABBREVIATIONS

AfO: *Archiv für Orientforschung*.

AI: Jaan Puhvel, *Analecta Indoeuropaea*. Innsbrucker Beiträge zur Sprachwissenschaft 35 (Innsbruck, 1981).

AIED: Henrik Birnbaum and Jaan Puhvel, eds., *Ancient Indo-European Dialects* (Berkeley and Los Angeles, 1966).

AJPh.: *American Journal of Philology*.

Alimenta: Harry A. Hoffner, Jr., *Alimenta Hethaeorum. Food Production in Hittite Asia Minor* (New Haven, 1974).

Alp, *Körperteilnamen*: Sedat Alp, "Zu den Körperteilnamen im Hethitischen" (*Anatolia* 2 [1957]).

ANET: James B. Pritchard, ed., *Ancient Near Eastern Texts Relating to the Old Testament* (Princeton, 1950, 2nd ed. 1955).

Antiquitates Indogermanicae: M. Mayrhofer, et al., eds., *Antiquitates Indogermanicae. Gedenkschrift für Hermann Güntert*. Innsbrucker Beiträge zur Sprachwissenschaft 12 (Innsbruck, 1974).

AO: *Archiv Orientální*.

BB: *Bezenberger's Beiträge*.

Bechtel, *Hittite Verbs*: George Bechtel, *Hittite Verbs in -sk-. A Study of Verbal Aspect* (Ann Arbor, 1936).

Beiträge ... Pokorny: Wolfgang Meid, ed., *Beiträge zur Indogermanistik und Keltologie Julius Pokorny zum 80. Geburtstag gewidmet* (Innsbruck, 1967).

Benveniste, *Origines*: Émile Benveniste, *Origines de la formation des noms en indo-européen* (Paris, 1935).

Berman, *Stem Formation*: Howard Berman, *The Stem Formation of Hittite Nouns and Adjectives*. Ph.D. Dissertation, University of Chicago (Chicago, 1972).

- BHD ... Kerns: Bono Homini Donum. Essays in historical linguistics in memory of J. Alexander Kerns* (Amsterdam, 1981).
- Bi. Or.: Bibliotheca Orientalis.*
- BSL: Bulletin de la Société de Linguistique de Paris.*
- Carruba, Beschwörungsritual: Onofrio Carruba, Das Beschwörungsritual für de Göttin Wišurijanša. StBoT 2* (Wiesbaden, 1966).
- CHD: Hans G. Güterbock and Harry A. Hoffner, eds., The Hittite Dictionary of the Oriental Institute of Chicago* (Chicago, 1980–).
- Čop, Indogermanica minora: Bojan Čop, Indogermanica minora, I. K anatolskim jezikom. Slovenska Akademija Znanosti. Umetnosti. Razred za Filološke in Literarne Vede. Razprave 8* (Ljubljana, 1971).
- Couvreux, Hett. H: Walter Couvreux, De hettitische H* (Louvain, 1937).
- DLL: Emmanuel Laroche, Dictionnaire de la langue louvite* (Paris, 1959).
- DSS: Carl Darling Buck, A Dictionary of Selected Synonyms in the Principal Indo-European Languages* (Chicago, 1949).
- EHGL.: Harry A. Hoffner, English-Hittite Glossary (RHA 25 [1967]: 5-99).*
- EHS: Heinz Kronasser, Etymologie der hethitischen Sprache, vol. 1* (Wiesbaden, 1962).
- Ertem, Flora: Hayri Ertem, Boğazköy metinlerine göre Hititler devri Anadolu'sunun florası* (Ankara, 1974).
- Evidence: Werner Winter, ed., Evidence for Laryngeals* (The Hague, 1965).
- Festschrift for O. Szemerényi: Bela Broganyi, ed., Festschrift for Oswald Szemerényi on the Occasion of his 65th Birthday* (Amsterdam, 1979).
- Festschrift J. Friedrich: Festschrift Johannes Friedrich zum 65. Geburtstag gewidmet* (Heidelberg, 1959).

- Flexion und Wortbildung*: Helmut Rix, ed., *Flexion und Wortbildung. Akten der V. Fachtagung der Indogermanischen Gesellschaft* (Wiesbaden, 1975).
- Florilegium Anatolicum*: *Florilegium Anatolicum. Mélanges offerts à Emmanuel Laroche* (Paris, 1979).
- Friedrich, *Elementarbuch*: Johannes Friedrich, *Hethitisches Elementarbuch. 1. Teil. Kurzgefasste Grammatik* (Heidelberg, 1974).
- Friedrich, *Staatsverträge*: Johannes Friedrich, *Staatsverträge des Hatti-Reiches in hethitischer Sprache* (Leipzig, 1926, 1930).
- Frisk, *Kl. Schr.*: Hjalmar Frisk, *Kleine Schriften zur Indogermanistik und zur griechischen Wortkunde. Studia Graeca et Latina Gothoburgensia 21* (1966).
- Furnée, *Erscheinungen*: Edzard J. Furnée, *Die wichtigsten konsonantischen Erscheinungen des Vorgriechischen* (The Hague, 1972).
- Gedenkschrift Kronasser*: Erich Neu, ed., *Investigationes Philologicae et Comparativae. Gedenkschrift für Heinz Kronasser* (Wiesbaden, 1982).
- GEW: Hjalmar Frisk, *Griechisches etymologisches Wörterbuch* (Heidelberg, n.d.).
- Goetze, *Kleinasien*: Albrecht Goetze, *Kleinasien* (2nd ed., Munich, 1957).
- Goetze, *Tunlawi*: Albrecht Goetze and E. H. Sturtevant, *The Hittite Ritual of Tunlawi*. American Oriental Society Series 14 (New Haven, 1938).
- Götze - Pedersen, *MS*: Albrecht Götze and Holger Pedersen, *Muršilis Sprachlähmung. Ein hethitischer Text mit philologischen und linguistischen Erörterungen. Det. Kgl. Danske Videnskabskabernes Selskab. Historisk-filologiske Meddelelser 21.1* (Copenhagen, 1934).
- Gurney, *The Hittites*: O. R. Gurney, *The Hittites* (Baltimore, 1952).
- Gusmani, *Lessico*: Roberto Gusmani, *Il lessico ittita* (Naples, 1968).

- Gusmani, *Lyd. Wb.*: Roberto Gusmani, *Lydisches Wörterbuch. Mit grammatischer Skizze und Inschriftensammlung* (Heidelberg, 1964).
- HDW: Johann Tischler, *Hethitisch-deutsches Wörterverzeichnis. Mit einem semasiologischen Index* (Innsbruck, 1982).
- Hendriksen, *Untersuchungen*: Hans Hendriksen, *Untersuchungen über die Bedeutung des Hethitischen für die Laryngaltheorie*. Det Kgl. Danske Videnskabernes Selskab. Historisk-filologiske Meddelelser 28.2 (Copenhagen, 1941).
- Hethitica 4*: *Hethitica 4. Travaux édités par Guy Jucquois et René Lebrun*. Bibliothèque des Cahiers de l'Institut de linguistique de Louvain 2 (1981).
- Hethitisch und Indogermanisch*: Erich Neu and Wolfgang Meid, eds., *Hethitisch und Indogermanisch: Vergleichende Studien zur historischen Grammatik und zur dialektgeographischen Sprachgruppe Altkleinasiens* (Innsbruck, 1979).
- Heubeck, *Lydiaka*: Alfred Heubeck, *Lydiaka. Untersuchungen zu Schrift, Sprache und Götternamen der Lyder* (Erlangen, 1959).
- HIE: Émile Benveniste, *Hittite et indo-européen. Études comparatives* (Paris, 1962).
- Hommages à Georges Dumézil: Hommages à Georges Dumézil* (Brussels, 1960).
- Hrozný, *HKB*: Friedrich Hrozný, *Hethitische Keilschrifttexte aus Boghazköi* (Leipzig, 1919).
- Hrozný, *SH*: Friedrich Hrozný, *Die Sprache der Hethiter* (Leipzig, 1917).
- HWb.*: Johannes Friedrich, *Hethitisches Wörterbuch. Kurzgefasste kritische Sammlung der Deutungen hethitischer Wörter* (Heidelberg, 1952-54).
- HWb. Erg.*: Johannes Friedrich, *HWb. Ergänzungshefte 1, 2, 3* (Heidelberg, 1957-66).

- IEW: Julius Pokorny, *Indogermanisches etymologisches Wörterbuch* (Bern and Munich, 1959).
- IF: *Indogermanische Forschungen*.
- Indo-European and Indo-Europeans: George Cardona, et al., eds., *Indo-European and Indo-Europeans. Papers.* (Philadelphia, 1970).
- Ivanov, *Obščeindoevropskaja*: V. V. Ivanov, *Obščeindoevropskaja praslavjanskaja i anatolijskaja jazykovyje sistemy* (Moscow, 1965).
- Jahukyan, *Hayerenə*: Gevorg Beglari Jahukyan, *Hayerenə ev hndevropakan hin lezownerə* (Yerevan, 1970).
- JAOS: *Journal of the American Oriental Society*.
- JCS: *Journal of Cuneiform Studies*.
- JEOL: *Jaarbericht van het Vooraziatisch-egyptisch Genootschap Ex Oriente Lux*.
- JIES: *Journal of Indo-European Studies*.
- JRAS: *Journal of the Royal Asiatic Society of Great Britain and Ireland*.
- Juret, *Vocabulaire*: Abel Juret, *Vocabulaire étymologique de la langue hittite*. Publications de la Faculté des Lettres de Strasbourg 99 (Limoges, 1942). Originally in *RHA* 6 (1940-41): 1-66.
- Kbo: *Keilschrifttexte aus Boghazköi*.
- KEWA: Manfred Mayrhofer, *Kurzgefasstes etymologisches Wörterbuch des Altindischen* (Heidelberg, 1956-80).
- KIF.: *Kleinasiatische Forschungen*.
- KUB: *Keilschrifturkunden aus Boghazköi*.
- Kümmel, *Ersatzrituale*: Hans Martin Kümmel, *Ersatzrituale für den hethitischen König*. StBoT 3 (Wiesbaden, 1967).
- Kuryłowicz, *Études*: Jerzy Kuryłowicz, *Études indoeuropéennes I*. Polska Akademia Umiejętności. Prace Komiskji Językowej 21 (Krakow, 1935).
- KZ: *Zeitschrift für vergleichende Sprachforschung*, begründet von Adalbert Kuhn.

- Laroche, *Noms*: Emmanuel Laroche, *Les noms des Hittites* (Paris, 1966).
- Laroche, *Prière hittite*: Emmanuel Laroche, *La prière hittite. Vocabulaire et typologie*. École pratique des Hautes Études, V^e section, Sciences Religieuses; Annuaire 72 (Paris, 1964-65).
- Laroche, *Recherches*: Emmanuel Laroche, *Recherches sur les noms de dieux hittites* (Paris, 1947). Also in *RHA* 7 (1946-47): 7-77.
- Les langues du monde*: A. Meillet, et al., *Les langues du monde* (Paris, 1952).
- Lg.*: *Language*.
- LIEV*: Jaan Puhvel, *Laryngeals and the Indo-European Verb* (Berkeley and Los Angeles, 1960).
- Ling*: *Linguistica*.
- Marstrand, *Caractère*: Carl J. S. Marstrand, *Caractère indo-européen de la langue hittite*. Det Norske Videnskaps Akademi, Hist.-fil. Klasse 1918.2 (Christiania, 1919).
- Mélanges H. Pedersen*: *Mélanges linguistiques offerts à m. Holger Pedersen à l'occasion de son soixante-dixième anniversaire 7 avril 1937* (Aarhus, 1937).
- MSL*: *Mémoires de la Société de linguistique de Paris*.
- MSS*: *Münchener Studien zur Sprachwissenschaft*.
- Neu, *Anitta-Text*: Erich Neu, *Der Anitta-Text*. *StBoT* 18 (Wiesbaden, 1974).
- Neu, *Interpretation*: Erich Neu, *Interpretation der hethitischen medio-passiven Verbalformen*. *StBoT* 5 (Wiesbaden, 1968).
- Oettinger, *Eide*: Norbert Oettinger, *Die militärischen Eide der Hethiter*. *StBoT* 22 (Wiesbaden, 1976).
- Oettinger, *Stamm*: Norbert Oettinger, *Die Stammbildung des hethitischen Verbums*. *Erlanger Beiträge zur Sprach- und Kunstwissenschaft* 64 (Nürnberg, 1979).
- OLZ*: *Orientalistische Literaturzeitung*.

- Otten, *Bestimmung*: Heinrich Otten, *Zur grammatikalischen und lexikalischen Bestimmung des Luwischen* (Berlin, 1953).
- Otten, *Kumarbi*: Heinrich Otten, *Mythen vom Gotte Kumarbi. Neue Fragmente* (Berlin, 1950).
- Otten - von Soden, *Vokabular*: Heinrich Otten and Wolfram von Soden, *Das akkadisch-hethitische Vokabular KBo I 44 + Kbo XIII 1. StBoT 7* (Wiesbaden, 1968).
- P: Jaan Puhvel, *Hittite Etymological Dictionary* (Berlin, New York, and Amsterdam, 1984–).
- Pāpanikri*: Ferdinand Sommer and Hans Ehelolf, *Das hethitische Ritual des Pāpanikri von Komana* (Leipzig, 1924).
- PBH: *Patma-banasirakan handes* (= *Istoriko-filologičeskij žurnal*) (Yerevan).
- Pedersen, *Hitt.*: Holger Pedersen, *Hittitisch und die anderen indoeuropäischen Sprachen*. Det Kgl. Danske Videnskabernes Selskab. Historisk-filologiske Meddelelser 25.2 (Copenhagen, 1938).
- Pisani, *Geolinguistica*: Vittore Pisani, *Geolinguistica e Indoeuropeo*. Memorie della Reale Accademia Nazionale dei lincei, classe di scienze morali, storiche e filologiche, Serie VI, Vol. IX, fasc. II (Rome, 1940).
- Potratz, *Pferd*: H. A. Potratz, *Das Pferd in der Frühzeit* (Rostock, 1938).
- Pratidānam*: J. C. Heesterman, et al., eds., *Pratidānam: Indian, Iranian and Indo-European Studies Presented to F. B. J. Kuiper on his Sixtieth Birthday* (The Hague, 1968).
- Puhvel, *Myth and Law*: Jaan Puhvel, ed., *Myth and Law Among the Indo-Europeans. Studies in Indo-European Comparative Mythology* (Berkeley and Los Angeles, 1970).
- RA: *Revue d'assyriologie et d'archéologie orientale*.
- RBPhH: *Revue belge de philologie et d'histoire*.
- RHA: *Revue hittite et asianique*.

RHR: Revue de l'histoire des religions.

RPh: Revue de philologie, de littérature et d'histoire anciennes.

Serta Indogermanica: Johann Tischler, ed., *Serta Indogermanica. Festschrift für Günter Neumann zum 60. Geburtstag* (Innsbruck, 1982).

Slav. Rev.: Slavistična Revija.

SMEA: Studi micenei ed egeo-anatolici.

Sommer, AU: Ferdinand Sommer, *Die Aḫḫijavā-Urkunden. Abhandlungen der bayerischen Akademie der Wissenschaften, Philosophisch-historische Abteilung N.F. 6* (1932).

Sommer, HAB: Ferdinand Sommer and Adam Falkenstein, *Die hethitisch-akkadische Bilingue des Ḫattušili I (Labarna II). Abhandlungen der bayerischen Akademie der Wissenschaften, Philosophisch-historische Abteilung N.F. 16* (1938).

Sommer, HH: Ferdinand Sommer, *Hethiter und Hethitisch* (Stuttgart, 1947).

Sommer, Zum Zahlwort: Ferdinand Sommer, *Zum Zahlwort* (Munich, 1951).

Stand und Aufgaben: *Stand und Aufgaben der Sprachwissenschaft. Festschrift für Wilhelm Streitberg* (Heidelberg, 1924).

Starke, Funktionen: Frank Starke, *Die Funktionen der demensionalen Kasus und Adverbien im Althethitischen. StBoT 23* (Wiesbaden, 1977).

Studi ... V. Pisani: *Studi linguistici in onore di Vittore Pisani* (Brescia, 1969).

Studia ... A. Pagliaro: *Studia classica ed orientalia Antonino Pagliaro oblata* (Rome, 1969).

Studies ... G. S. Lane: Walter W. Arndt et al., eds., *Studies in Historical Linguistics in Honor of George Sherman Lane* (Chapel Hill, 1967).

Studies ... Whatmough: Ernst Pulgram, ed., *Studies Presented to Joshua Whatmough on his Sixtieth Birthday* (The Hague, 1957).

- Sturtevant, *Comp. Gr.*^{1,2}: Edgar H. Sturtevant, *A Comparative Grammar of the Hittite Language* (Philadelphia, 1933, 2nd ed. New Haven, 1951).
- Symbolae Kuryłowicz*: *Symbolae linguisticae, in honorem Georgii Kuryłowicz* (Wrocław, 1965).
- T: Johann Tischer, *Hethitisches etymologisches Glossar*. Innsbrucker Beiträge zur Sprachwissenschaft 20 (Innsbruck, 1977–).
- TL: *Tituli Lyciae* (Vienna, 1901).
- TPS, TPhS: *Transactions of the Philological Society*.
- Van Windekens, *Le tokharien*: A. J. Van Windekens, *Le tokharien confronté avec les autres langues indo-européennes. Volume I. La phonétique et le vocabulaire* (Louvain, 1976).
- Vendryes, *Lexique*: J(oseph) Vendryes, *Lexique étymologique de l'Irlandais ancien* (Dublin and Paris, 1959–).
- VLFH: Heinz Kronasser, *Vergleichende Laut- und Formenlehre des Hethitischen* (Heidelberg, 1956).
- Walde - P.: Alois Walde and Julius Pokorny, *Vergleichendes Wörterbuch der indogermanischen Sprachen* (Berlin, 1930).
- Watkins, *Idg. Gr.*: Calvert Watkins, *Indogermanische Grammatik* (Heidelberg, 1969–).
- WO: *Die Welt des Orient*.
- ZA: *Zeitschrift für Assyriologie und vorderasiatische Archäologie*.
- ZDMG: *Zeitschrift der Deutschen Morgenländischen Gesellschaft*.

ABSTRACT OF THE DISSERTATION

Hittite Vocabulary:
An Anatolian Appendix to Buck's *Dictionary of Selected
Synonyms in the Principal Indo-European Languages*

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The year 1949 saw the publication of Carl Darling Buck's *Dictionary of Selected Synonyms in the Principal Indo-European Languages*, a compilation of the basic vocabularies of over thirty representative Indo-European languages, ancient and modern, relating to several hundred categories of common objects, activities, and notions of everyday life. By analyzing the patterns of word-derivation and meaning-relationship among these lexica, Buck intended to provide "a contribution to the history of ideas," to trace the semantic roots of the words which still embody and shape our most fundamental concepts and concerns, and this great work has become a standard reference source for students of language and linguistic change, anthropology, semantics, and related disciplines.

Since the early years of the twentieth century, it had been clear that a new era in Indo-European linguistics had begun with the discovery and decipherment of the Hittite royal archives of the

second millennium BC. The unprecedented antiquity and unique Near-Eastern location of Hittite and its related Anatolian dialects promised to open important new vistas in comparative philology, but Buck was forced to leave it virtually unconsidered by the lack of comprehensive dictionaries and other apparatus.

Progress in Hittitology has continued steadily in the ensuing decades, resulting in greater etymological sophistication and culminating in the appearance of several new Hittite dictionary projects, and it is now possible to add the Anatolian dimension to Buck's classic work. *Hittite Vocabulary* uses the lexicographical material now available to undertake a thorough confrontation of the Hittite lexicon with the extra-Anatolian data and to examine its contribution to comparative Indo-European philology.

PREFACE

In the Preface to his *Dictionary of Selected Synonyms in the Principal Indo-European Languages* (p. xi), Carl Darling Buck wrote: "The principal Indo-European languages are covered. Some of the minor ... languages, as Albanian, Armenian, and all modern forms of Indic and Iranian, are excluded from the survey, since to include them systematically would increase the labor out of all proportion to the results added." Too obscure to rate inclusion even in this list of unconsidered minor languages were Hittite and Tocharian, though inspection shows that in fact they received incidental treatment much the same as Armenian and Albanian.

Such an approach was undoubtedly the proper one at the time (1949). Where the classical Indo-European language groups were thoroughly known and had yielded up essentially all that could be expected in the way of texts, Hittitology especially was a fledgling discipline. Indeed, only thirty-two years had passed since Hrozný had firmly established its position within the Indo-European orbit in *Die Sprache der Hethiter*, and only two since the discovery of the Karatepe bilingual inscription. The Hittite corpus was still growing, and many years of work would still need to be done in fully interpreting the thousands of tablets already published.

Equally important was the matter of secondary sources. In contrast with the thorough etymological dictionaries and comparative grammars available for other branches (listed extensively in Buck, *DSS* 2-7), Hittite lexicographical tools were rudimentary. Delaporte's *Éléments de la grammaire hittite* and Juret's *Vocabulaire* existed, as did Sturtevant's *Comparative Grammar and Hittite Glossary*, but even so basic a work as Friedrich's *Hethitisches Wörterbuch*

was yet to appear. Thus while the Indo-European affinity of Hittite was clear, only a handful of solid lexical correspondences, like *watar* 'water', *kardi-* 'heart', *genu-* 'knee', *kessar* 'χείρ', *nepis* 'νέφος', and *pahhur* 'fire', could be found to suit Buck's purpose—certainly not enough to justify the systematic inclusion of Hittite in an already enormous project.

In the decades since the appearance of Buck's *Dictionary*, however, the talents of another generation of scholars have brought Hittite studies to a state of lively growth that would have gratified the early pioneers. Editions of texts on subjects from law and hipology to ritual and myth have fueled a healthy literature in numerous journals, where etymological and philological studies have multiplied to the point where even the specialist finds it difficult to keep abreast of the annual output. Modern root theory and the increasing understanding of the so-called laryngeals have added new depth and insight to Indo-European etymology, while "Sturtevant's Rule" describing the graphic representation of original voiced : voiceless opposition in medial stops and *-h-* (see for example Sturtevant, *Comp. Gr.*¹ 73-86) was a step forward comparable in importance to that represented by Verner's Law in Germanic. Perhaps most important, recent years have seen the inception of no less than four new full-fledged Hittite dictionaries, with the material recently published or in preparation covering at least half of the Hittite lexicon; two or three of these show promise of completion in their authors' lifetimes. Luwian and Lydian dictionaries have also appeared, and Palaic and Hieroglyphic Luwian, and to a lesser extent Lycian, have added the material for a sturdily underpinned comparative Anatolian linguistics (cf. Puhvel, *AI* 139-51). While it may take another generation at least for Hittite studies to reach the level of sophistication and maturity now enjoyed by the longer-known branches, it does not seem too early to expect the confrontation of Hittite vocabulary with that of

the other Indo-European languages to begin producing a positive return on the effort invested, and the present work is an attempt to test that possibility.

If one of Buck's aims was a survey of "the principal Indo-European languages," the other, as indicated by his subtitle, was "a contribution to the history of ideas." In contrast to usual etymological dictionaries, which trace the origins and history of words on the basis of formal correspondence—and whose entries therefore contain only groups of strict cognates, varying in meaning within reasonable limits—the organizing principle of the *Dictionary of Selected Synonyms* is that of *similarity of meaning*. The commonly used terms for key notions are recorded, regardless of etymological connection, with such groups of cognate forms as may happen to arise allowed to fall where they may. Assuming that the words a society uses can give us insight (indirectly, to be sure) into the habitual thought processes of its members, we can then translate the isoglossal patterns of cognate-groups into patterns of similarity and difference in concept-formation among the societies of speakers we study—i.e., into a history of ideas.

One further important point is implicit in Buck's decision to limit his "Dictionary of Ideas" (*DSS*, p. x) to the Indo-European languages. If language and thought go hand in hand, then it follows that those who speak and think in related languages must share somehow related ways of perceiving the world; hence the entire Indo-European group must constitute a single, closed entity, comprising patterns of ideas and ideology quite distinct from those of other language families. And if this is true, then we should be able to find parallels between our basic concepts and thought and those not only German, Dutch, and Scandinavian speakers, but of Romans, Greeks, Celts, Iranians, Slavs, Balts, Armenians, Albanians, and even Hittites.

Did the Hittites think the way we do? Of course in a sense the suggestion is absurd. They lived nearly three and a half millennia ago, in a social and political world we can scarcely imagine. Their religion shows practically nothing of inherited Indo-European ideology; it was appropriated wholesale, along with the imperial kingship and many other social institutions, from the more cosmopolitan societies of the Near East. Large parts of their vocabulary and syntax are foreign not only to English and Germanic, but to Indo-European in general.

And yet it is hard to read Hittite texts for very long without being struck by a sense of familiarity with many of their habitual ways of expression and turns of phrase, especially when the language is contrasted with the many non-Indo-European tongues of the surrounding civilizations, Akkadian, Hattic, Egyptian, and the rest. The Hittites, despite their distance from us in time and cultural surroundings, are above all *understandable*, to the extent that even with relatively little training we can read and appreciate much of their subtlety and even humor. Increasing etymological rigor is a key factor in this understanding, as it continues to provide more lexical parallels and thus improve our knowledge of the semantic fields of Anatolian and Indo-European vocabulary, adding a new dimension to the work so admirably founded by Buck.

The major sources for the present work include Hoffner's *English-Hittite Glossary* (EHGL.), the *Chicago Hittite Dictionary* (CHD), Tischler's *Hethitisches etymologisches Glossar* (T) and *Hethitisch-deutsches Wörterverzeichnis* (HDW), and Puhvel's *Hittite Etymological Dictionary* (P; including unpublished portions kindly made available to me by Professor Puhvel). The latter two contain extensive etymological discussions and thorough documentation,

and in many cases I refer to these for convenience rather than the original sources, citations for which can easily be found in T and P.

The work follows the layout of Buck's book, and is intended to be used in conjunction with it, although considerable flexibility has been adopted in the style and format of individual entries. In presenting the material I have tried to steer a middle course, wishing to make the treatment neither too simple for the specialist nor too detailed for the general user, as well as to keep the size of the whole within manageable limits.

The years since 1949 have also seen considerable activity in the fields of Albanian and Armenian philology, as reflected for example in Martin Huld, *Basic Albanian Etymologies* (Columbus, 1984) and John A. C. Greppin, *An Etymological Dictionary of the Indo-European Components of Armenian* (vol. 1, *Bazmavep* 141 [1983]). No doubt the thoroughgoing inclusion of these languages into Buck's framework will soon be found as desirable as that of Hittite, but for the present they must continue to be relegated to incidental mention.

I am particularly pleased to be able to express in print my gratitude to Professor Jaan Puhvel, without whose support and generosity I could not have finished this project. Sincere thanks are also due Professor Terence Wilbur for his constant encouragement.

THE PHYSICAL WORLD IN ITS LARGER ASPECTS

1.1 — WORLD — Although a Hittite word for ‘world’ is unknown, Anatolian philology has provided clarification of the two most difficult of the terms collected by Buck. For the two meanings of Gk. κόσμος, ‘orderly arrangement’ and the “secondary” ‘ornament, decoration’, Puhvel (AI 331-38) finds a semantic and formal common denominator in Hitt. *kisai-*, denoting the plucking and carding motion of wool-combing (cf. 6.91), with the antonym *arha kisai-* ‘dismantle’ matching Gk. ἀποκοσμέω ‘clear away’. For Lat. *mundus*, a primary adjectival sense ‘washed, cleansed’ (expanded with later cultural contact to fill the semantic sphere of κόσμος) allows the reconstruction **mū-tnó- < *mew-H-*, and connection with Hitt. *mutai-* ‘flush, rinse’ (AI 338-44; cf. 1.214, 9.36). The ritual connections of both of these terms in Hittite (combing/washing away evil), together with the notion that “ritual is in essence a magic attempt at microcosmic ordering of the universe” (AI 344), may afford a glimpse into the earliest Indo-European conception of universal harmony and order.

The concept of ‘the whole world’ is expressed in Hittite by circumlocutions such as *nepisas tagnass-a hūlaliēsni zik-pat* ^DUTU-us *lālukimas* ‘in the circumference of heaven and earth, you alone, O Sun-God, (are) the (source of) light’ or 4 *halhaltumari* ‘the four corners (of the world)’ (12.76).

1.21 — EARTH, LAND — Buck's doubt (*DSS* 16) about the connection of H. *tekan* and Toch. *tkam* with the group Gk. χθών, OIr. *dú*, Lat. *humus*, Skt. *kṣam-*, Alb. *dhe*, etc. can safely be laid to rest (cf. *EHS* 270), along with his reconstruction with interdental spirant; *tekan* reflects the full-grade vocalism **dhêgh-om*, vs. the zero-grade **dhêgh-* metathesized and simplified or otherwise altered in other languages. Loss of the guttural and addition of the normal *-i-* stem yields Luw. *tiyammi-* (*ibid.*).

The term *udne* 'land, country' seems to be connected with *watar* 'water' (IE **wed-/ud-* 'to wet'; Skt. *unátti*), and thus to mean specifically 'irrigated, habitable land', vs. *hatanti-* 'dry land' (1.26); cf. Puhvel, *Bi. Or.* 37 (1980): 203, who also adduces Lyc. *wedri* 'land' and Arm. *getin* 'ground, soil' (V. Pisani, *ZDMG* 107 [1957]: 552), as well as Gk. οὔδας 'ground, soil' (*AI* 221).

1.212 — EARTH = GROUND, SOIL — *daganzipa-* contains *dagan* < suffixless locative **dhêgh(o)m*, zero-grade of *tekan* 'earth' (cf. Skt. *kṣam-i*). The second element is *-sepa-*, *-zipa-*, possibly a Hattic designation for a feminine divinity, as in [Ⓛ]*Kamrusepa-*, [Ⓛ]*Ispanzasepa-*, etc., see *EHS* 184-86 and 7.31 below.

1.213 — DUST — SAHAR (Akk. *epru*).

1.214 — MUD — *purut-*, *purutessar* seems to mean 'mud' in addition to a primary sense 'clay' (cf. Gk. πηλός), and is treated under the latter (9.73). A common term for 'mud' specifically is *isuwaniṭ watar*, literally 'water with sediment' (P 486); cf. Gk. φόρῳ 'mix dry with wet' (see 9.73).

halina-, see 9.73.

The cognates of NE *mud*, from **mew-d-*, **mew-H-* (Skt. *mutra-*, Av. *mūθra-*, etc.) are joined by H. *mutai-* 'flush with excrement', as noted in 1.1 above.

1.22 — MOUNTAIN, HILL — *kalmara-* ‘mountain’ probably reflects IE **k_l-m(o)-*, matching OS *holm* ‘hill’ (A. R. Bomhard, *RHA* 31 [1973]: 112), plus the topographical suffix *-(a)ra-* as in *gim(ma)ra-* ‘field’ (*EHS* 186). Thus it fits into the group of variously formed derivatives from **kel-* ‘rise’ (Lat. *collis*, *culmen*, Lith. *kálnas*, Gk. *κολωνός*, etc. [*DSS* 23]). There is no reason to connect it with *G^{is}kalmi-*, *G^{is}kalmisana-* ‘fire-log’ (e.g. *EHS* 186); these belong rather with *iskallai-* ‘split’ < **(s)kel-* (9.27; P 414).

Skt. *párvata-*, Av. *paurvatā* find a cognate in H. *NA₄peru(na)-*; see 1.44.

1.23 — PLAIN, FIELD — *gim(ma)ra-* ‘open (field)’ (Luw. *immari-*) is generally believed to be an inherited IE word. Most usual is Sturtevant’s connection (*Lg.* 6 [1930]: 216; further references in T 574-75) with the stem seen in *tekan* ‘earth’ (1.21), thus perhaps **(dh)ǵém-ro-* (with *-[a]ra-* suffix as in *kalmara-* ‘mountain’ [*EHS* 186]), beside **dhéǵh-om* in *tekan*. This simplification of the initial cluster appears also in e.g. Gk. *χαμαί* vs. *χθών*, Skt. gen. *jmás* vs. nom. *kṣám*, and OCS *zemlja*, Lith. *žemė*, Lat. *humus*.

An alternative approach was reportedly taken by Benveniste (Laroche via Puhvel, p.c.), who considered the base meaning to be ‘wintry steppe, rangeland’, and the etymon IE **gheym-* ‘winter; snow’. V. V. Ivanov (*Symbolae Kuryłowicz* 132) tied in the *Κιμμέριοι*, though the latter more likely belong with H. *kammara-* ‘mist, fog’ (see 1.74).

wellu- ‘meadow’ is plausibly connected by Puhvel (*AI* 210-15) with ON *völlr* ‘meadow’, W. *gwellt* ‘grass’, and especially Gk. *Ἠλύσιον (πεδῖον)* ‘Elysian (lit. meadowy) field’, reflecting an IE root **(H₂)wel-* plus varying *u-*stem suffixes, different from **H₁wel-* ‘twist’, and perhaps revealing a very ancient Indo-European concept of the “meadow of the otherworld.”

^{A.ŠA}*ku(e)ra-* ‘field’ is a ‘parcel’ (EHS 165) or ‘share’ of land, a thematic noun corresponding to the verb *kuer-*, *kur-* ‘cut’ (9.22); cf. Gk. τέμενος < τέμνω. Anat. cognates are Luw. *Mallitas-kuri-*, lit. ‘honey-field’, and possibly Lyd. *qira* ‘property, goods’ (T 611). Bomhard (RHA 31 [1973]: 112) preferred instead a comparison with Skt. *kṛṣāti*, *kārṣati* ‘plow’, *karṣūḥ* ‘furrow’, from an IE **k^wer-* ‘plow’; for these see rather Puhvel, AI 118-24.

^{A.ŠA}*terippi-*, see 8.12.

1.24 — VALLEY — *hariya-* ‘valley’ has been successfully equated with Arm. *ayr* ‘hole, den’ by B. Čop (*Die Sprache* 3 [1956]: 135-38), who notes with Buck the commonality of meaning (via ‘concavity’) in e.g. OE *denn* ‘lair’, *denu* ‘vale’. The reconstruction is then **A₁(e)r-y-*; for further speculation on a root **A₁er-* (prompted by Lith. *armuō* ‘Tiefe, Abgrund, Moorgrund’) see Čop, op. cit. 138.

Much less satisfactory is M. L. Mayer’s suggestion (*Acme* 15 [1962]: 242) of origin in Akk. *harru* ‘depression, watercourse’; other attempts are surveyed in T 173.

1.25 — ISLAND — According to Kronasser (EHS 125), “weder die indogermanischen noch die semitischen Sprachen haben ein altes Wort für ‘Insel’,” but made use of periphrases like H. *aruni anda* ‘amid the sea’ (corresponding to Akk. *qabal tāmti*), Lat. *insula*, Gk. ἐνάλιος, OCS *ostrovŭ*, *otokŭ*, etc. Hitt. also possessed the term *kursawar* (T 657-58), derived from *kurs(a)-* ‘cut off’ (9.22), and thus an exact semantic match for NE *skerry*, *scar* < ON *sker*.

1.26 — MAINLAND — *hatant(i)-*, originally participle of *hat-* ‘dry up’, thus means ‘dry land’ (T 214, 219), like Lith. *sausžemis* and OIr. *tír* (: Lat. *terra*, *torreo*; Skt. *tr̥ṣ-*, etc., cf. DSS 17). *hat-* reflects IE **A₁ed-* ‘be dry’, seen also in Lat. *ador* ‘(dried) spelt’, and *hatanti-* contrasts with *udne* ‘irrigable land’ (1.21) from **wed-* ‘be wet’

(Puhvel, *Bi. Or.* 37 [1980]: 203). In view of this derivation, the usual gloss of *hatanti-* as 'shore' probably represents a specialization of the primary sense 'dry land'.

1.27 — SHORE — *hatant(i)-*, see 1.26. Another deverbative term for 'shore' may be *kurkessar* < *kurk-* 'preserve, hold back' (T 650), bringing to mind OE *wer* 'dam, weir', *warian* 'guard', and Gk. ὄχθη 'bank, dike', connected with ἔχω (although doubted by Frisk, *GEW* 2.456).

1.31 — WATER — *watar*, gen. *wetas* (with Luw. *Kizzuwatna* < **kez wetenaz* 'cisaquinus') fits firmly into the widespread IE **wedōr* group, and is already included in Buck's list. But the tentative connection of H. *eku-*, *aku-* and Toch. *yok-* 'drink' with Lat. *aqua*-etc. has not survived; see rather 4.98 and P 268.

1.32 — SEA — Although all are agreed that the Hitt. word for 'sea' is *aruna-*, debate over the word's origin is extensive, and an exhaustive treatment is outside the scope of this work. Discussion has followed four main lines, which may be summarized as follows:

(1) Connection with the watery Indic god Varuna, via Mitannian influence.

(2) Reconstruction **mru-no-* and tie-in with the widespread IE **mori-* or Gk. μούυχος 'dark', with reference to the Black Sea (Puhvel, *Studies ... Whatmough* 236-37 = *AI* 38-39).

(3) Hattic origin, from the place-name ^{URU}*Arinna* (^{URU}*TÚL-na*) via **arinna-* 'fountain'.

(4) Connection with IE **er-*, **or-* 'stir, move', and thus with Skt. *arṇava-*, etc. This last is most likely, and has given rise to many detailed proposals. See for full discussion and references T 71-73, P 178-82.

1.33 — LAKE — *luli-* seems to have meant originally ‘lake’ or ‘pond’, later generalized to all small bodies of water, both natural and man-made, including springs, wells, and cisterns (CHD 3.80-82). A late Hitt. derivative is *luliyasha-* ‘marsh’. Probably non-IE in origin (Sum. *TÚL* ‘well, spring’? [AI 351]).

1.35 — WAVE — *hunhuessar* ‘wave’, with variants *hunhuessar*, *huvvanhuessar*, *huvahwessar*, and secondary *hunhuesna-*, seems to contain reduplication like other terms for natural phenomena, e.g. *harsiharsi-* ‘storm’, *arsarsura-* ‘stream’, *wantewantema-* ‘lightning’. Beyond the obvious abstract suffix, the multiplicity of forms makes etymologizing difficult, and Čop’s attempt (*Indogermanica minora* 35-37, 49) to reconstruct a root **wen-*, seen in OS *ūthia*, OE *yfe*, ON *unnr* ‘wave’, is little help.

1.36 — RIVER, STREAM — *hapa-* is cognate with OBrit. Ἀβος ‘the river Humber’ (Ptolemy, *Geography*, cf. P s.v.), while the more usual *n*-suffixed variant—Lat. *amnis*, OIr. *aub*, OBrit. *Abona*, W. *afon*, OPruss. *ape*, etc.—is matched by Pal. *hāpna-* and H. dat.-loc. sg. *ÍD-ni* (ibid.) The data point to a root **A₁ebh-* ‘river’, which should be kept separate from **āp-* ‘water’ (contrast DSS 35, 42 and IEW 1, 51-52). Further Anatolian cognates include Luw. *hapi-*, Hier. RIVER-*pi(a)-* ‘river’, Hier. and H. *hapat(i)-* ‘river-land’ (see P s.v. and refs.)

The reduplicated *arsarsur(a)-* ‘stream, current’ is deverbative from *ars-* ‘flow’ < IE **E₁er-s-* (10.32), much as Gk. ῥέϋμα, OIr. *sruth* (but W. *ffrwd* < **sprew-*; cf. Vendryes, *Lexique* S-189), NE *stream*, etc., from **srew-* (DSS 41-42).

1.37 — SPRING, WELL — Besides *luli-* (see 1.33), several other terms for ‘spring’ or ‘well’ also occur, all roughly synonymous and

alternating with or accompanied by the sumerogram TÚL. ^(TÚL)*altanni-* (P 41-43, T 20) is late Hitt., generally taken as a Hurrian loanword via Luwian. In contrast, ^(TÚL)*wattaru-*, *watru-* appears in OHitt., and apparently springs from the IE word for 'water' (EHS 252), much as does Skt. *utsá-*, although the spelling with *-tt-* poses a phonetic difficulty, as it seems to point to an original voiceless stop.

harsumna- (nom.-acc. pl. to sg. **harsumar* 'headwaters, source' has been linked (T 187-88) with *harsar-*, *harsan-* 'head' (4.20), thus parallel to Akk. *rēš ēni* 'head of the fountain', and like Engl. 'headwaters', via a suffix *-(u)mar* (T 188) or *-umna-* (P s.v.) A weaker alternative is a tie-in with *hars-* 'tear open; plow'; this poses its own extensive etymological problems (see 8.21), but is not unparalleled semantically, given Avest. *xan-*, Skt. *khā-* 'spring', Av. *čāt-* 'well'; *kan-*, Skt. *khánati* 'dig'.

A further Hitt. term for 'spring, fountain' is *sakuni-*, with denominative verb *sakuniya-* 'well up'. The form is itself derivative, from the primary *sakui-*, which appears once in this meaning besides its usual sense 'eye' (4.21). The term thus shows the same polysemy as its Semitic counterparts (e.g. Akk. *īnu[m]* 'eye; fountain'), and can be reconstructed **dhyagh^w-i-* and connected firmly with Gk. *σάφα* 'clearly', *σοφός* 'wise', *σαφίη* 'insight' (17.21, 17.34), through a base-meaning 'clearness, translucency', etc. (cf. Puhvel, *AI* 265-66, 313-21).

1.41 — WOODS, FOREST — ^{GĪŠ}*tiyessar* was identified by Laroche (*RHA* 9 [1948-49]: 11-13) as 'woods, (sacred) grove'. Clearly an abstract derivative, the root might be *ti-*, the weak stem of *dai-* 'place, put', the meaning developing from a locational sense, something like OIr. *ross* < **pro-sto-*. Speculation might even extend to the suppletive passive to *dai-*, namely *ki-*, wending its way back through IE **key-* 'lie' (Gk. *κεῖται*) and on to Goth. *haiþi*, NE *heath*

and W. *coed*, Corn. *cuit* ‘woods’ (**koy-to-* [cf. Gk. κοῖτος], Gmc. **χai-to-/χai-ti-* (IEW 521), providing support for ‘place, be placed/lie’ > ‘grove, wood’.

1.42 — TREE — *daru-* means both ‘tree’ and ‘wood’ (1.43), and belongs with Gk. δόρυ, Skt. *dāru-*, and NE *tree*, etc. It remains part of the word for ‘oak’ *allantaru* (8.61; P 29), just as Gk. δρῦς and OIr. *daur* have been specialized in this sense.

1.43 — WOOD — See 1.42.

1.44 — STONE, ROCK — Generally accepted for ^{NA4}*aku-* ‘stone’ (and *akuwant-* ‘stony’) is Laroche’s connection (RHA 15 [1957]: 25-26, 29) with IE **ak-* ‘sharp’, with cognates Skt. *ásman-*, OCS *kamy*, Lith. *akmuō* ‘stone’, Gk. ἄκμων ‘anvil’, etc., the Hitt. *u-*stem supported by Lat. *acus* ‘needle’, *acūmen* ‘sharp point’ (P 24). Although Puhvel notes the difficulty that “the consistent single spelling of *-k-* points rather to */-g-/*” (ibid.), his tie-in with Gk. ἄχνα, ἄχνη ‘chaff’, Goth. *gazds* ‘sting’, Lat. *hasta* ‘spear’ (**A2égh-/A2gh-ádh-*) is difficult.

^{NA4}*peru(na)-*, ^{NA4}*piru(na)-* ‘rock, stone’ (adj. *perunant-*) is likely matched by Skt. *párvata-* ‘mountain; rock, stone’, as **per-un-o-* vs. **per-wñ-to-* (= Gk. πείρατα), with H. ^{NA4}*peru-* paralleling Skt. *páruh-* ‘knot, joint’ (KEWA 2.228, 220-21).

^{NA4}*kunkunuzzi-*, a kind of stone (often translated ‘diorite’ since Götze, KIF. 1 [1930]: 201), formed with the implement-suffix *-uzzi-* (EHS 121) on the reduplicated root *kun-*. C. H. Carruthers (Lg. 9 [1933]: 154-55) derived the word from IE **g^when-* ‘strike’ (4.76), thus literally ‘tool for striking repeatedly, club’, with transfer of the weapon-name to the material it was made from. Alternatively, cf. ^{NA4}*ku(wa)nna(-n)-?*

^{NA}4ku(wa)nna(n)-, see 9.66, 16.67.

1.51 — SKY, HEAVENS — Buck already includes H. *nepis* with Slav. *nebo*, Skt. *nābhas-*, Gk. *νέφος*, W. *nef*, etc. The vocalism with *-is* is unique but authentic (EHS 326-27); evidently an Anatolian innovation (cf. Oettinger, *Eide* 24). The *nem-* seen in OIr. *nem* may be a variant of the same root or IE **nem-* ‘bow, bend’; cf. DSS 53; Vendryes, *Lexique* N-8.

1.52 — SUN — The common word for ‘sun’ and the ‘sun-god’ in Hittite is *Istanu-*, normally written ^{DINGIR}UTU-us. This, with its variant *Astanu-*, is simply the Hittite version of the Hattic *Estan-*, *Astan-*, which meant both ‘sun-god’ and ‘day’, and ousted the old IE **sawel-*, the only Anatolian survival of which seems to appear in ^DUTU-liya-, i.e. **Saweliya-* matching Hom. *ἥέλιος* (P 466).

The interchange of meanings ‘sun’ ~ ‘day’ in Hattic solar theology seems to have influenced Anatolian vocabulary very early, for the Luw. and Pal. terms for ‘sun-god’, *Tiwat-* and *Tiyat-* (as well as possible OHitt. ^D*Sius*, EHS 467) match H. *siwatt-* ‘day’ and the large number of reflexes of **dēy-*, **dy-éw-* discussed in 14.41 (P 465-68, T 428-30).

1.53 — MOON — The Anatolian word for ‘moon’ was *arma-*; it appears in this shape in Hitt. and Luwian, in Hier. as MOON-*ma-*, and in very many Anatolian names like Lycian Gk. *Ερμαμοας*, *Ερμενηνις*, Lyc. *erm̃menēni*, etc. It generally means ‘month’ as well, like the numerous reflexes of IE **mēnes*, etc., but clearly does not continue that term of its basic sense of ‘measuring’.

Although pronounced “ohne Etymologie” by Tischler (T 62), *arma-* has been connected (e.g. Laroche, *RHR* 148 [1955]: 18-21) with a large group of words having to do with ‘weakness, sickness, paleness’, including *arma(n)-*, *irma(n)-*, *irmanant-*

‘sickness’, derived from IE **ormo-* as seen in OE *earm*, ON *armr*, Goth. *arms* ‘wretched’ (and possible Arm. *olorm* ‘pity’), and explained as ‘the pale one’, in contrast to both the daytime sun and the widespread IE replacement lunar designation as ‘the shining one’ (Lat. *lūna*, etc.; Gk. *σελήνη*; Skt. *candrāmas-*). Also related are *armai-* ‘be pregnant’, *armahh-* ‘impregnate’ (4.73; Puhvel, *Bi. Or.* 36 [1979]: 58); full discussion in P 151–60.

1.54 — STAR — *haster-* is a match for Gk. *ἀστήρ*, and with it preserves the initial laryngeal lost in the other dialects: **A₁(e)ster-*. Arm. *astł* may support full-grade vocalism, and also suggests original *-r/-l* heteroclis (P s.v.). This reconstruction obviates root-connection with IE *ster-* ‘spread out’ (DSS 56), as well as with **ster-* ‘stiff’ (Pârvulescu, KZ 91 [1977]: 41–50; IEW 1022), but Akk. *Ištar* is still implausible as an ultimate source (see T 204–6).

Buck’s cited *astira-* is a superseded reading; *KBo* XIX 10 + *KUB* VIII 75 I 22 now reads firmly ^{URU}*Hastiras* (Puhvel, *Bi. Or.* 37 [1980]: 202).

1.55 — LIGHTNING — *wantiwant-* and *wantemma-* exhibit multiple derivational devices, starting from the verbal stem *wantai-* ‘be warm, glow’. On one hand, *wantemma-* shows the action noun suffix *-ma* (EHS 178). *wantiwant-*, on the other, is either a participial adj. with *-want-*, or less likely a reduplicated form (EHS 121; in the latter case one would expect **wantiwanti-*, but the suggestion is supported by the reduplication in *harsi-harsi-* ‘[thunder]storm’). Both formations are present in *wantiwantema-*.

The stem is *want-* ‘be hot’ (15.85; cf. *wantes-* ‘grow hot’ beside *wantai-*, also ^{NINDA}*wantili-* ‘warm bread’), a rhyming synonym to *hantais-* ‘heat’ (Kronasser [EHS 88–89] considered the two etymologically identical, and included H. *ā-*, *ay-* ‘be hot’ [15.85] to boot [via part. *ānt-*, EHS 67–68]).

1.56 — THUNDER — *tethai-*, *tethiski-* ‘to thunder’ and its nouns *tethessar*, *tethuwar*, *tethima-*, indicate a stem *teth(a)-*, but the word is “without clear etymology” and apparently non-Indo-European (Puhvel, *Evidence* 87 = *AI* 133).

1.57 — LIGHTNING (AS STRIKING), THUNDERBOLT — ^{GIS}*kalmisana-*, besides its normal meaning ‘firewood’ (< **[s]kel-* ‘split’, 9.27), has been taken in this sense (T 469), through an identification something like ‘firebrand’ = ‘lightning bolt’ (understandable perhaps to anyone who has seen a tree struck by lightning!).

1.61 — LIGHT — *lalukkima-* ‘(source of) light’, is abstracted from *lukk-* ‘be light’ and its many by-forms (*CHD* 3.28-30, 74-79), probably via *lalukki-* ‘be luminous’. Kronasser (*EHS* 121-22) explains the reduplication as “der Versuch, optische Eindrücke wiederzugeben, besonders helles Licht und schnelle oder wiederholte Bewegungen,” apparently having in mind rapid blinking or squinting stimulated by exposure to bright light. In any case the root-connection is clear: H. *lukk-* matches Skt. *roc-* or *ruc-* and fits comfortably in Buck’s majority group from IE **lew-* (*DSS* 60).

1.62 — DARKNESS — A Hitt. word for ‘darkness’ seems to be lacking. ‘Celestial darkness’, not quite the same thing, is rendered by sumerogram AN.TA.LÙ (Akk. *attalū*).

In NHG *dunkel*, ON *ḍokkr*, a development ‘dark’ < ‘misty, hazy’ (Sw. *dunken*, NE *dank*), considered in *DSS* 62 (from Walde-P. 1.851-52), is challenged by Benveniste (*BSL* 33 [1932]: 142), asserting the primacy of ‘dark’ as shown by the cognate Hitt. *dankui-*, IE **dh(e)ngwo-* (15.63; cf. also *AI* 265).

1.63 — SHADE — GIŠ.GE₆-*las* ‘shade; shadow’ indicates an *l*-formation, recalling Lith. *šėšėlis*, but nothing can be said about the root.

1.72 — WIND — To the group of words from traditional IE **wē-* ‘blow’ can now be added H. *huwant-*, which when compared with Gk. ἄημι (also Aeol. αὔελλα ‘whirlwind’, W. *awel* ‘breeze’, *awen*, OIr. *ái* ‘poetic inspiration’; cf. C. Watkins, *Celtica* 6 [1963]: 215–16) confirms a more detailed reconstruction of the root as **A₁wēE-*. *huwant-* (/hwant/) thus reflects something like **A₁wē-nt-*, **A₁w-é/ónt-*, participial like Gk. ἀέντες, Lat. *ventus*, W. *gwynt*, etc.

1.73 — CLOUD — *alpa-* is apparently of IE provenance, but its exact source has so far eluded identification. Tischler (T 18) records Čop’s adduction of Gk. λάπη ‘scum’, Russian *lópan’* ‘Brunnen im Morast’, from an IE **lpa-*, with semantic development as in Latv. *mākuōnis* ‘dark cloud’ vs. Lith. *makōnė* ‘puddle’. Puhvel (P 38) notes this suggestion and offers two more: Couvreur’s connection (*Hett.* H 106, 149) with Goth. *luftus* (**lewp-*), and a reconstruction **A₂él-p-* > Skt. *álpa-* ‘small’, Lith. *alpūs* ‘weak’, with **A₂l-ép-* > Lith. *lepūs* ‘soft’, Gk. λαπαρός ‘slack’, with doubtful shift from ‘air’ to ‘flimsy, insubstantial’ to ‘cloud’.

The earliest and still most popular approach ties *alpa-* to Gk. ἀλφός ‘white leprosy’, Lat. *albus* ‘white’. Puhvel’s objection (P 38) that a development from ‘white’ to ‘cloud’ would be not only unique, but out of keeping with “the dominant Hitt. association of clouds with rain and water” is well taken, but the equation is phonetically impeccable, and the word could well have lost all connotation of ‘whiteness’ in Hittite, ‘white’ being expressed by other terms (see 15.64). On balance IE **A₂el-bho-* remains most likely.

kammara-, see 1.74.

1.74 — MIST (FOG, HAZE) — The likely basis of *kammara-* ‘fog; haze, smoke; cloud; swarm of bees’ is IE **kem-* ‘cover’ (T 472–73), seen e.g. in ON *hamr*, OE *-hama* ‘covering, skin’, perhaps from the appearance of fog or mist covering the ground; cf. Skt. *dhvānati* ‘cover’, *dhvānta-* ‘darkness’, Av. *dvānman* ‘cloud, mist’. A. Heubeck (*Hermes* 91 [1963]: 490–93, seconded by Puhvel, P s.v.) deftly tied in the name of the Κιμμέριοι, ἤέρι καὶ νεφέλη κεκαλυμμένοι (*Odyssey* 11.15), originally a descriptive adjective like that of the sun-darkened Αἰθίοπες.

1.75 — RAIN — Of the many attempts to explain H. *heu-* (gen. *he[y]law-*) surveyed by Tischler (T 238–40, to which add now E. Neu, *BHD ... Kerns* 203–12), the only one that works is the idea (rejected early by H. Zimmern [*Stand und Aufgaben* 441]) linking it with Gk. ὑέτός (vb. ὕει), Toch. *swase*, *swese* (vb. AB *su-*), OPruss. *suge*, Alb. *shi* ‘rain’. Thus the reconstruction includes *s*-mobile and laryngeals, with a basic form **(s)E₂ew-H-*, *sE₂-uH-* (detailed analysis in Puhvel, *Bi. Or.* 37 [1980]: 203–4). Further extension **sE₂uH-g-* in Lat. *sūgere*, OE *sūcan*, OIr. *súgim* ‘suck’ and **sE₂uH-k-* in ON *súga*, OE, OS, OHG *sūgan* ‘suck’, Lat. *sūcus* ‘juice, sap’ (NE *swig* < **sE₂wH-ék-*?) may point to some such further nuance as ‘flowing’, ‘nourishment’, or the like.

Also of PIE age is *warsa-* ‘rainfall, precipitation’, matching Skt. *varṣām* ‘rain’ and Gk. ἔρση ‘dew’ (pl. ‘rain-drops’) < **wers-*, with zero-grade in OIr. *frass*, Skt. *vr̥ṣti-*.

1.77 — ICE — Hittite *eka-* ‘ice, frost; cold’ reflects IE **yeg-* ‘ice’, seen also in OIr. *aig*, ON *jaki*, *jøkull*, etc. (P 258, *IEW* 503), thus giving more solid support to an original IE primary ice-term than arose from Buck’s survey.

Derivatives are *ekuna-*, adj. 'cold' (15.86), *ekunima-* 'coldness', like Gk. κρύος 'icy cold' : κρύσταλλος or MCorn. *yeyn* 'cold', and perhaps *ikniyant-* 'lame' (4.94).

1.81 — FIRE — The inclusion of H. *pahhur* (gen. *pahhuenas*) and Luw. **pahur* (N. Oettinger, *MSS* 34 [1976]:102-3) in the group of Gk. πύρ, etc. permits the IE word to be reconstructed confidently as an *-r/-n* heteroclite with a voiceless *a*-coloring laryngeal (Benveniste, *Origines* 169; Pedersen, *Hitt.* 187-88; Puhvel, *Evidence* 89 = *AI* 135), thus **peA₁-ur-*, **peA₁-un-*. No trace of the other IE fire-word, **egni-*, **ogni-*, appears in Hittite.

1.82 — FLAME — Two different approaches have been taken to the explanation of *happin(a)-* 'open flame'. On one hand, V. V. Ivanov (*Etimologija* 1977: 145) adduced ON *ofn* 'hearth', OE *ofen*, Gk. ἰπνός (Myc. *i-po-no*) 'oven', etc., thus following B. Čop (*Indogermanica minora* I: 34-35), who compared ὀπτός 'roasted'. More promising is the direction taken by R. Gusmani (*Incontri linguistici* 4 [1978]: 242-43) and A. J. Van Windekens (*BHD ... Kerns* 330-31), connecting Gk. ἄπτω 'kindle, ignite; attach' < **A₁ebh-*, the Gk. word being conflated with an originally separate verb (perhaps **ἄπτω*) 'attach', cf. Engl. 'set fire to'.

1.83 — SMOKE — *tuhhui-*, *tuhhuwai-* 'smoke' is cognate with Gk. θύος 'burned incense' > 'sacrifice', θύω 'offer (burnt) sacrifice', τύφω 'smoke, smoulder', thus **dhuA₁-*, **dheu-A₁-*; cf. θῦμός 'spirit', Lat. *fūmus* 'smoke', etc. (W. Petersen, *AO* 9 [1937]: 210-11; *IEW* 261).

A further derivative is *tuhhuessar* 'incense'; despite *EHS* 104, the latter probably does not belong with *tuhs-* 'cut off', and there is no need to posit ad hoc a homonym *tuhs-* 'sich kultisch reinigen' in order to read *tuhhuissar tuh(uh)sa* as a figura etymologica (ibid.): it

simply means 'cuts the incense', with *tuhs-* 'cut' (9.22; H. G. Güterbock, *RHA* 22 [1964]: 106-7). More likely verbal connection is with *tuhh(ai)-* 'gasp, wheeze, cough', etc.; cf. Gk. *καπνός* vs. Goth. *af-hwapjan* 'choke', likewise NE *smoke* vs. Lith. *smáuhti* 'choke'.

For the alternative term *kammara-* see 1.74.

1.84 — ASHES — No Hittite word has surfaced, but E. P. Hamp (*Evidence* 126-27) connected Alb. *hī* 'ashes' with H. *ā-*, *ay-* 'be warm' (15.85). Skt. *āsa-* 'ashes' was compared with H. *as(s)-* 'remain' by Oettinger (*Stamm* 187), but Puhvel (P 189) is skeptical.

1.85 — BURN — Intransitive 'burn' in Hitt. is *war-*, with the transitive sense being expressed by the causative *warnu-*, like Goth. *brinnan* : *brannjan*. Probably not related, as has long been assumed, to Gk. *θερμός* < **g^wher-mo-* (e.g. *DSS* 1077), as it violates normal phonetic development of initial **g^wh-*, seen rather in *kuenzi* 'he kills' = Skt. *hānti* (cf. Puhvel, *AI* 262, 265). More likely is Götze – Pedersen's connection (*MS* 74) with OCS *varŭ* 'heat', Lith. *virti* 'cook' (5.21).

Hittite *pahhuriya-* (*HDW* 58) is denominative from *pahhur*, thus 'burn like fire'.

With Gk. *αἶθω*, Skt. *idh-* 'kindle', Lat. *aestus* 'heat', etc. (*DSS* 75) cf. Hitt. *ay-* 'be hot' (15.85).

1.86 — LIGHT (VB.), KINDLE — *lukki-* (and late H. *lukk-* [*CHD* 3.76]) is one of the many reflexes of IE **lew-* (1.61), paralleled in this meaning by Fr. *allumer*.

MANKIND: SEX, AGE, FAMILY RELATIONSHIP

Perhaps the most striking feature of Anatolian kinship and family terminology is its maternal and matriarchal bias, in contrast to the strongly patriarchal structure so well known among other Indo-European speakers. Besides the historical record of Herodotus (*History* 1.173), who remarked on the unique matriliney of the Lycians, considerable linguistic evidence demonstrates the Hittites' general adoption of native Anatolian custom at the expense of inherited Indo-European tradition. Noteworthy are the replacement of IE terms for 'father', 'mother', 'brother', 'sister', etc. by indigenous ones, the designation of 'family' by *hassatar* (2.82) < *has* 'give birth' rather than a reflex of **genE-* 'beget' (Gk. γένος, etc.), the maternally-based terms *anninniyami-* 'mother's brother's (child)' for 'cousin' (2.55), *annaneka-* 'co-uterine sister' (2.45), *andaiyant-* 'entering one' for 'son-in-law' (2.63), and so on; see Laroche, *BSL* 53 (1958): 186–93.

2.1 – MAN¹ (HOM⁰) – The very difficult Hitt. *antu(wa)hha-/antuhsa-* presents multiple barriers, both morphological and phonological, to a definitive etymology, as neither the original declension nor stem-formation is certain. An origin in Hattic *antūh* 'human' has seemed likely to Laroche (*JCS* 1 [1947]: 194–95) and others, with the prefixed version *d-andu-ki* perhaps yielding Hitt. *danduki-* 'mortal'.

Other possibilities involve IE elements, e.g. Oettinger's (*Stamm.* 373) **en-dhweA₁-o-*, with root **dhew-A₁-* as in H. *tuhhui-*, Lat. *fūmus* 'smoke' (1.83) and formation like Gk. ἔν-θῦμος 'spirited'. The often repeated (from Kretschmer, *Glotta* 9 [1918]: 232) connection with Gk. ἄνθρωπος, because it must take into account Myc. *a-to-ro-qo*, compels a reconstruction along the lines of **A₂nr-ōkw-(o)s*, which has the virtue of tying in Hes. δρώψ · ἄνθρωπος but leaves seemingly insurmountable phonetic problems. Further tries and refs. P 79-83, T 36-37.

antuhsatar, *antuhsannant-* 'mankind; population' are straightforward abstract derivatives.

Lyd. *antola*, *anlola* may mean 'funeral stele', if from H. **antuwhahala-* (Gusmani, *Lyd. Wb.* 59; *Neue epichorische Schriftzeugnisse aus Sardis* [Cambridge, Mass., 1975], p. 5, comparing Gk. ἀνδριᾶς 'statue').

For H. *danduki-* 'mortal' (adj. and noun), see above. ^{LÚ}*mayant-* 'grown man', part. of *mai-*, *miya-* 'grow' (12.53).

2.21 — MAN² (VIR) — Hittite uses *pesna-* 'penis' (4.492) in synecdoche to mean both 'man' and adj. 'male' (2.23), somewhat as OE *wæp(en)-man*, *wæpned-man* (with 'penis' < 'weapon'). A closer parallel may be Lat. *mās* 'male', if cognate with *membrum (virile)* < **mēmsro-* (P s.v., comparing Skt. *māmsá-* 'flesh'; cf. *DSS* 85). The abstract deriv. *pesnatar* (^{LÚ}*-natar*) 'manhood, virility, potency' was further reconcretized to mean 'male genitalia' and 'semen', as *SAL-natar* became 'vagina' beside 'womanhood'.

Hier. and Luw. *ziti-* (common in personal names, e.g. *Armaziti-*), etym. ?

On the group including Gk. ἀνήρ, etc. see *in(n)arawant-* 'strong', 4.81.

2.22 — WOMAN — Sumerography conceals the Hitt. word, but dat. SAL-*ni*, gen. SAL-*nas*, etc. and the abstract SAL-*natar* ‘womanhood’ combine with Luw. *unatti-/wana(tti)-* ‘woman’ to suggest a reflex of the near-ubiquitous IE **g^wen-eA* (RV *jáni-*, OIr. *ben*, Arm. *kin*, zero-grade Skt. *gnā*, Gk. *γυνή*, etc.). Nom. SAL-*za* points specifically to **g^wen-s* or perhaps **kuenan-s* < **g^wen-on-s*, -*n*- suffixed as in Gmc. (Goth. *qino*, OE *cwene*) (F. Starke, KZ 94 [1980]: 74-86).

Lyc. *lada* ‘woman, wife’, cf. perhaps Gk. *Λητώ*, Dor. *Λᾱτώ*.

2.23 — MALE — *pesna-* ‘man’, adj. ‘male’, *pisnatar* ‘manhood’, all from *pesna-* ‘penis’, 4.492; cf 2.21.

2.26 — GIRL — ^{SAL}*haz(i)kara(i)-* ‘maiden’ or ‘girl’ in temple-service, exclusively in plural. Tischler (T 234) and Puhvel (P s.v.) concur in suspecting indigenous Anatolian origin, as well as in doubting Kronasser’s analysis (EHS 186) as **hazzk-tara-* ‘musical-instrument player’.

suppis(s)ara- ‘maiden, virgin’ is formed from *suppi-* ‘pure’ + the fem. suffix -*sra-* (EHS 187) seen as well in *alhuesra-/alhuitra-*, a temple-priestess (P 33-34).

Ideogram ^{SAL}KI.SIKIL ‘girl’.

2.27 — CHILD — H. *hammasa-* ‘small child’ goes with Luw. *hamsa-*, Hier. *hamasa-* ‘grandchild’, likely the original meaning: cf. 2.48.

2.28 — INFANT — *hassant-* ‘baby, small child’, part. of *has-* ‘give birth’ (4.72), thus ‘one just born’, like NHG *kind* < **genE-to-*. Also DUMU.NITA.GAB ‘boy nursing’ and DUMU.SAL.GAB ‘girl nursing’ (E. A. Hahn, *Studies ... G. S. Lane* 163).

2.31 — HUSBAND — Hittite uses LÚ (*pesna-*) ‘man’, or Akk. LÚMUTU.

2.32 — WIFE — DAM (Akk. *aššassu*).

2.33 — MARRY — ‘To take a wife’ appears as *-za ... DAM-anni da-*, lit. ‘take (so-and-so) to oneself in wifehood’ (cf. OIr. *do-beir mnaí*, Lat. *uxōrem dūcere*), and *-za ... LÚMUTI iya-* ‘make (so-and-so) one’s husband’ serves as the distaff equivalent.

hamenk- ‘bind’ (9.16) also comes to mean ‘marry’, like NE “get hitched”; cf. *ishanittarātar* ‘marriage alliance’ (2.81) < *ishai-* ‘bind’.

2.34 — MARRIAGE — The state of marriage (but not the wedding ceremony) is denoted by DAM-*atar* ‘wifehood’ (like Avest. *nāiriθwana-*) or ^{SALÉ}GE₄.A-*atar* ‘bride-hood, engagement’.

2.35 — FATHER — PIE **pHtēr-* does not survive in the Anatolian languages, all of which show replacements of the common *Lallwort*-type. Thus H. *atta-* ‘father’, *attalla-* ‘fatherly, paternal’ (cf. Goth. *atta*, Russ. *otec*); Luw. *tāti(ya)-*, Hier. *tati(a)-*, Lyd. *taada-*, Lyc. *tedi*, adj. *tedesi*, Hier. *tatali-* (W. *tad*, Rum. *tată*); Pal. *papa* (P 224-26).

2.36 — MOTHER — Like **pHtēr-*, IE **mātēr* has been supplanted in Anatolian, by *anna-*, *anni-* (Luw. *anni[ya]-*, Hier. *SAL-natin*, Pal. *anna-*, Lyd. *ēna*, etc., Lyc. *ēni*). Parallels include Lat. *anna* ‘foster mother’, Hes. ἀννίς, Arm. *han*, OHG *ana* ‘grandmother’, Lith. *anýta* ‘mother-in-law’, etc. (P 55-57).

Lyc. *χñna* ‘mother’ corresponds to H. *hanna-* ‘grandmother’ (Puhvel, *Evidence* 84 = AI 130).

2.37 — PARENTS — Siding with those languages which express ‘parents’ through combinations of the terms for ‘father’ and ‘mother’, Hittite uses asyndetic *atta- anna-* or *anna- atta-* (cf. French *père et mère*; also H. *huhha- hanna-* ‘grandparents’), Pal. *anna- pāpa-*. The original compound *atta anna*, *anna atta*, paralleling Skt. *pitārāmātārā(u)*, *mātārāpitārāu* (classical *mātāpitarau*) and elliptical *matara(u)*, *pitara(u)* (cf. Sp. *padres*, Goth. *fadrein*), appears in the expression (*attas annas siwatt-* ‘day of death’, lit. ‘(fathers’ and) mothers’ day’; see AI 205-9).

2.41 — SON — The Hitt. word is consistently hidden beneath sumerographic DUMU.(NITA). H. C. Melchert (*IF* 85 [1980]: 90-95) equated the sporadic DUMU-*la-* with *ayawala-* in KUB XIV 3 I 11-12 ^{LÚ}TARTENU-*ma UL ANA LUGAL ayawalas* ‘is not the crown prince the *a.* of the king?’, but etymology supports the reading ‘agent, deputy’, etc. (< Luw. *aya-* ‘make’), favored from Sommer (*AU* 41-54) to Kronasser (*EHS* 174) and Puhvel (P 13).

Luw. DUMU-*ni-* and DUMU-*annassi-* suggest a form in *-anni-*, again with no clues to the root.

Lyc. *tideimi* ‘son’ < Luw. **titaimi-* ‘suckled, sucking’ (*VLFH* 211), cf. H. *titan-* ‘tit’; semantics as in Lat. *filius*, Latv. *dēls*.

2.42 — DAUGHTER — Normally DUMU.SAL, the inherited IE term survives in the Luwoid ^{SAL}*duttar(ri)yati-* and variants (cf. F. Starke, *KZ* 94 [1960]: 77). Anatolian **du(g)atra-* yielded Luw. **dwatra-* (cf. Hier. ^{WOMAN}*tú-wa-tara* [J. D. Hawkins, *KZ* 92 (1978): 112-16]) > Lyc. B **tbatra* > Lyc. *kbatra* (A. Heubeck, *Die Sprache* 8 [1962]: 86; Laroche, *BSL* 62 [1967]: 47-48).

2.43 — CHILD — DUMU.

2.44 — BROTHER — Luw. *nani(ya)-* (also personal name ¹*Nani-*) and Lyc. *nēni-* indicate a Hitt. reading **nana-* for ŠEŠ, with support from attested ŠEŠ-*ni*. Further corroboration probably resides in H. *annin(n)iyami-* ‘cousin’, i.e. ‘mother’s brother’s son’ (2.55). Here again the PIE term has been supplanted.

2.45 — SISTER — Hittite has *neka-* as well as NIN, both on its own and in personal names such as *Hasusarniga-* ‘Queen’s Sister’. Neumann (*Antiquitates Indogermanicae* 280-82) plausibly derived *neka-* from *nana-* ‘brother’ (cf. Sp. *hermana* and Gk. ἀδελφή) via the appurtenance suffix *-(i)ga-* (EHS 170-71), thus **(na)niga-* paralleling the separate WAnat. development seen in Luw. *nanasri(ya)-*, Hier. *nanaśri-*, Lyc. *neri* (< **[ne]nehri-*) ‘sister’ (O. Carruba, *Parola del Passato* 24 [1969]: 269-72).

The Hitt. compound *annaneka-* is ‘mother-sister(s)’, i.e. ‘sisters with the same mother’ (Goetze, AO 17.1 [1949]: 288-90; P 58-59).

2.46 — GRANDFATHER — In contrast to much of Anatolian kinship terminology, H. *huhha-* (Luw. *huha-*, Lyc. *χυγα*) may be of PIE origin (**A₁[e]uA₁o-*), matching Lat. *avus*, Arm. *hav*, and cognate with Goth. *awō* ‘grandmother’ and OIr. *áue* ‘grandson’ (**awi-yo-*; cf. NHG *enkel*, *ähnlein* : *ahn*). References at T 261.

The competing Hitt. term *dān atta-* ‘second father’ is a very archaic designation with close ties to such ancestor-terminology as Gk. τρίπαππος, τριτοπάτωρ, Lat. *tritavus*, etc.; full discussion in AI 391-92.

A third mode of reference ‘father’s father’ appears in akkadographic *ABI.ABI*.

huhha- hanna- means ‘grandparents’, as *atta- anna-* ‘father (and) mother’ is also ‘parents’.

2.47 — GRANDMOTHER — H. *hanna-* (AMA.AMA), Lyc. *χῆνα*, recalls Hes. ἀννίς, OHG *ana*, Arm. *han* ‘grandmother’, Lat. *anna* ‘foster mother’. A common IE **A₁en-* can be reconstructed (refs. T 145-46) without prejudicing an ultimate origin in “Kindersprache” (EHS 118; T 145).

2.48 — GRANDSON — Considerable confusion exists, both in modern scholarship and in Hittite usage, among terms for ‘grandson, grandchild’ and those for the more general notion ‘descendant, offspring’, as transfer from one meaning to the other is easily possible (e.g. Gk. ἑγγονος ‘descendant’ > ‘grandson’; cf. H. *hammasa-* ‘small child’ vs. Luw. *hamsa-* ‘grandchild’, and the similar instability of IE **nep(ō)t-* ‘grandson, nephew, offspring’ [DSS 111-12]). Closest to the specific end of the scale is DUMU.DUMU(-MEŠ) ‘son’s son; children’s children’, etc. (similarly DUMU.DUMU.DUMU ‘great-grandson’), with the opposite extreme represented by Hitt. neut. *hardu-* (Luw. *harduwatt[i]-*, Hier. *hartu-*), tentatively interpreted as ‘Urenkel’ (T 189) but meaning basically ‘descendant(s), offspring’ (see 2.57).

The formulaic expression *hassa hanzassa*, formerly explained as a petrified dual-dvandva and translated ‘Enkel und Urenkel’ (cf. T 195), was convincingly reinterpreted by Melchert (*RHA* 31 [1973]: 57-70) as an asyndetic directional (dative) meaning ‘to the first (and) second generation’ (such a phrase could easily then come to mean ‘children and grandchildren’). The first element is clearly deverbative from *has-* ‘beget, give birth’ (4.72), while the second remains etymologically troublesome. T. Milewski’s analysis (*L’indo-hittite et l’indoeuropéen* [Krakow, 1936], p. 32, n. 3) *hanza* ‘before’ + *hassa-* ‘generation’ is formulaically attractive but chronologically perverse: one would expect *appan* here, as in Lyc. *epñ-neni* ‘younger brother’ (TL 8.2-3); Melchert’s comparison (op. cit. 64-65) with Lat. *prōgnātus*, Gk. ἑγγονος is not entirely satisfactory,

as he himself noted (ibid., n. 5-6).¹ Laroche's alternative explanation (BSL 53 [1957-58]: 188-89) equates *hanzassa-* with Luw. *hamsa-*, Hier. *hamasa-* 'grandson', H. *hammasa-* 'small child' (plus difficult suffix *-[s]sa-*), thus *hassa hanza-ssa* would show the opposite semantic development 'children (and) grandchildren' > 'generation (and) next generation'. In either case the etymology of Hitt. *hammasa-* poses its own problems; Oettinger's attempt (Eide 24) < *A(o)mso- (ON *áss*, *æsir*) may be right.

2.53 — NEPHEW — Lyc. *tuhes* 'sister's son'.

2.55 — COUSIN — H. *annin(n)iyami-* is attested; if from Luwoid **anni-nani(ya)-* (P 71-72), the meaning is originally 'mother's brother's (offspring)', but it has been generalized at least as far as 'father's sister's son' (KUB XXI 1 III 34-36, quoted ibid.).

2.56 — ANCESTORS — The Hittites apparently shared the Indo-European concept of departed ancestors as the 'fathers' or 'mothers and fathers' ([gen. pl.] *karuuiiyas addas* 'ancient fathers'; cf. RV *pitáras*) who have gone ahead to the next world (H. *wellu-*, Gk. Ἠλύσιον πεδίον, etc.; cf. AI 210-15); the old elliptical dual expression survives in *annas siwaz* 'day of death', lit. '(fathers' and) mothers' day' (AI 205-9).

Hier. *huhati-* 'ancestor', with adj. *huhatali-*, H. *huhhatalla-*, lit. 'grandfatherly', fr. *huhha-* (2.46).

1. A Hitt. model **hanz-huhha-* 'great-grandfather' is needed to fill the analogical slot of Lat. *pro-avus*; one wonders whether it might lurk in Luw. *hamsukkalla-*, Hier. GRANDCHILD-*masukula-* '(great-) grandchild', from something like **hanz-huhh-talla-* (cf. OIr. *áue* vs. Lat. *avus*, NHG *enkel*, *ähnlein* vs. OHG *ano*, with 'grandson' derived diminutively from 'grandfather').

2.57 — DESCENDANTS — H. *hardu-* ‘offspring, descendant’, pl. *harduwa-*, with Hier. *hartu-* and Luw. *harduwatt(i)-*, is accompanied by the phrase *harduwa harduwati* ‘in regelmäßig aufeinanderfolgender Nachkommenschaft’ (T 189). R. Normier’s comparison (IF 85 [1980]: 58) with Arm. *ordi* ‘child, offspring’ may be apposite, fr. PIE **A₁rdh-*. The suggestion of O. N. Trubačev (*Voprosy jazykoznanija* 2 [1957]: 88, championed by V. V. Ivanov, *Etimologija* 1979: 135-36), connecting OCS *rodŭ* ‘kin, family, birth’, is also tempting, but requires separating *rodŭ* and *roditi* ‘give birth’ from IE **werdh-*, **wredh-* ‘grow’, Skt. *várdhati*, Gk. ὀρθός (Lac. βορθαγορίσκος), etc. (IEW 1167). Van Windekens (*BHD ... Kerns* 332) adduces Hes. ἄρτυς · σύνταξις, Arm. *ard* ‘structure, construction’ and other forms, envisioning a basic sense ‘line (of descent)’.

Luw. *warwalali-* ‘offspring’, *warwalanant-* ‘descendant’ (NUMUM-*ant-*) are read thus by Laroche (DLL 108), vs. *warwatn(ant)-* in N. van Brock, *RHA* 20 (1962): 105. A plausible link with Slavic **vŭrŭ* ‘line’ was put forward by V. N. Toporov, *Strukturno-tipologičeskie issledovanija v oblasti grammatiki slavjanskix jazykov* (Moscow, 1973), p. 122-23.

2.63 — SON-IN-LAW — *andaiyant-*, probably from *anda* ‘in’ + part. of *i-* ‘go’, is literally ‘he who has gone in’, and reflects areal son-in-law tradition seen also in Akk. *errēbu* ‘he who enters’ and Turk. *iç-güvey* ‘inside son-in-law’ (P 78-79).

^{LÚ}*kusa-* may in some occurrences mean ‘son-in-law’ or the like, but this reading should not be substituted (pace Starke, *Funktionen* 144) for the acc. sg. of *kussan-* ‘payment’ in the *Code* (11.77/78). J. J. S. Weitenberg’s comparison (IF 80 [1975]: 66-70) with Gk. κύσθος ‘weibliche Scham’ fails on phonetic grounds: the latter plainly belongs with Lat. *cunnus* < **kut-no-* (4.47). It might be preferable to derive (^{LÚ})*kusa-* from IE **ĝews-* ‘choose’ (with either full or reduced

vocalism; cf. Goth. *kiusan* vs. Lat. *gus-tus*), with the meanings ‘chooser’ or ‘chosen one’ justifiable for either bride (Weitenberg’s ^[SAL]*kusa-*) or the “entering” (*andaiyant-*, cf. above) groom (cf. ON *kvenn-kostr* ‘good match [in marriage]’). H. *kusata-* ‘brideprice’ may belong here, as a derivative of ^{SAL}*kusa-* (cf. Weitenberg, loc. cit.), or with *kussan-* (discussion T 673-74).

2.65 — BROTHER-IN-LAW — ^{LÚ}*kaena-* (Lyd. *kāna-*), usually taken as some undetermined (or nonspecific term for) ‘in-law’ (T 459-60), belongs here according to P 79. F. Mezger’s link with demonstrative *ka-/ki-* (KZ 75 [1957]: 76) is thinkable in view of the many similarly pronominal derivatives from **s(e)we-*, **swo-* meaning the same thing in other languages (e.g. Lith. *sváinis* ‘sister’s husband’, pl. Gk. ἀέλιοι, ON *svilar* ‘husbands of sisters’; OCS *svatŭ* ‘relative’, Russ. *svojak* ‘wife’s sister’s husband’, etc. (DSS 126).

2.71 — STEPFATHER — Luw. *tātawanni-*, formed from *tāti(ya)-* with the suffix *-wanni-* (EHS 183), in the manner of Lat. *patrāster*, etc. This and Luw. *annawanni-*, H. *annawanna-* ‘stepmother’ suggest a likely though unattested H. **attawanna-*.

2.72 — STEPMOTHER — H. *annawanna-*, Luw. *annawanni-* < ‘mother’ + *-wanna/i-*, as in ‘stepfather’ above (P 65, T 28-29).

2.75 — ORPHAN — *kurimma-* was identified by Kronasser (EHS 180; supported in T 646-47) as a Luwoid participial formation (suffix *-[a]imma-*) on the stem *kuer-/kur-* ‘cut off’ (9.22). Semantically parallel to NHG *waise* < **weydh-* ‘divide, split’ (cf. IE **widh-ew-ā* ‘widow’), and like Gk. ὀρφανός, Lat. *orbus*; OCS *sirŭ*, etc.

The exact meaning of *wannummiya-* is hard to pin down; noting that it occurs with both DUMU and SAL, Laroche (RHA 9 [1949]: 14-15) suggested a combination of ‘orphaned’ and

‘childless’, comparing Gk. ὀρφανός and Lat. *orbus*. E. A. Hahn (*Studies ... G. S. Lane* 160-62) added the sense ‘widowed’ as well, accepting Güterbock’s translation ‘bereaved’ (*JAOS* 78 [1958]: 240 and n. 19). The basic sense ‘alone, deserted, abandoned’, etc. invites comparison with Lat. *vāstus* ‘desolate’, OHG *wuosti* ‘wasteland’, OIr. *fás* ‘empty’, cognate with H. *wastai-* ‘sin, failure’, etc. (16.75), an equation semantically supportable (cf. Gk. χήρα ‘widow’, χώρος ‘[empty] land’) but phonetically difficult (< **wās-n-ummi-*?).

2.76 — WIDOW — ^{SAL}*udati-* was interpreted ‘veuve’ by Laroche (*RA* 43 [1949]: 70), who connected it plausibly (*ibid.* n. 2) with IE **widhewā* by reading initial *ú-* as /wi-/ and the fem. suffix *-(i)t(i)-* as a Hitt. counterpart of IE **-wā*, thus **widha-ti-*. This interpretation and etymology were wholeheartedly endorsed by Hahn (*op. cit.* 154-70).

2.81 — RELATIVES — *ishanittarātar* ‘(marriage) alliance, kinship’ and *ishanattalla-* ‘kinsman by marriage’ are most probably from a caustive **ishanai-*, **ishaniya-* (P 395-96, T 381-82) to *ishai-* ‘bind’ (9.16), semantically like Skt. *bāndhu-* ‘relative’, Gk. πενθερός ‘father-in-law’, Czech *příbuzní* ‘relative’. A former reading ‘blood relative’ relied on an unlikely derivation from *eshar* ‘blood’.

^{LÚ}*kaena-* ‘(brother-?)in-law’, 2.65.

2.82 — FAMILY — *hassatar*, see 19.23.

ANIMALS

3.11 — ANIMAL — Although the meaning is evidently ‘living creature(s)’, like Gk. ζῷον, Nlr. *beath(aidhe)ach*, OCS *životŭ*, Lith. *gývulis*, etc., the formation and ultimate source of H. *huitar* are somewhat unclear. A Luw. counterpart *huitumar* is plainly derived from the Luw. verb *huit-* ‘live’, but the corresponding Hitt. verbal slot is filled by *huis-*, which is not the immediate source of *huitar* (or the further denominative *huitnant-*). Rather than an improbable Luw. loanword in Hittite, the explanation may lie in a Panat. verb **huit-*, yielding separate abstract derivatives in Hitt. and Luw., and reflecting a separate root, or at least stem-formation, from that of H. *huis-*. For fuller discussion cf. T 264-68, 269-71; possible root-connections are via *huit-* and *huis-* ‘live’: see 4.74.

3.12 — MALE — In most cases the sumerogram refers automatically to the male of animal species, unless additionally marked ‘female’ (SAL[.AL.LAL]) or a distinct female form (see 3.13). The terms used to refer to human beings (2.23) could probably also be applied to animals for particular emphasis, especially NITÁ as the masculine counterpart to SAL(.AL.LAL).

3.13 — FEMALE — Female animals are in part designated by distinct sumerograms, e.g. ^{UDU}U₁₀ ‘ewe’ vs. ^{UDU}ŠIR ‘ram’, ^{GUD}ÁB ‘cow’ vs. ^{GUD}.MAH ‘bull’, ÛZ ‘nanny goat’ vs. MÁŠ ‘he-goat’,

EMÈ ‘jenny’ vs. ANŠU ‘ass’. In other cases the qualifier SAL(.AL.LAL) ‘female’ could be affixed (cf. *EHG*l. 18-19 and n. 2).

3.14 — CASTRATE — *kars-* ‘cut (off)’ (9.22) is used in this self-explanatory sense, like the cognate Dan. *skære* (*DSS* 142) and Gk. ἐκτέμνω, Fr. *couper*, Swed. *snöpa*, NE *cut*, NHG *verschneiden*, Czech *vyřezati* (*DSS* 141-42).

3.15 — LIVESTOCK — *huitar* ‘animals’ (see 3.11) was given as the Hitt. reading for MAŠ.ANŠU (Akk. *būlu*) by Friedrich (*HWb.* 285; *ZA* N.F. 5 [1929]: 41), with semantics paralleled by e.g. Rum. *vite*, Lith. *gyvuliai*, plurals meaning ‘live-stock, domestic animals’, and Dan. *kreaturer*, Engl. dial. *critters*. Derivation and context point more in the direction of a less specific ‘animal life, fauna’; cf. *gilmrās huwitar* ‘beasts of the field’, *huwitar hūman* ‘all game’ (*AI* 220).

H. *sup(pa)l(a)-* ‘cattle’, with “singulative”-suffixed *suppalant-* (*EHS* 261; Laroche, *OLZ* 51 [1956]: 422) ‘head of cattle’, appeared to Kronasser (*EHS* 324) to be an *-l*-stem, probably of foreign origin.

Gk. πρόβατα, lit. ‘forth-going ones’, has a parallel in Hitt. ^{UDU}*iyant-* ‘sheep’, see 3.25.

3.16 — PASTURE, GRAZE — *wesiya-* ‘put to pasture’ (itv. *weseski-*) is denominative from *wesi-* ‘pasture’ (3.17), like Sp. *pastar*, OFr. *pasturer*; OE *læswian* < *læs*. E. Benveniste (*HIE* 97-101) presented a strong case for the reconstruction of an original IE verb **wes-* with this meaning, comparing H. *wesi-*, Avest. *vāstra-* ‘pasture, pasturage’ and H. ^{LU}*westara-*, Av. *vāstar-* ‘herdsman, protector’; see 3.18.

Hier. *lapana/i-* is denominative, from a noun matching Luw. *lapana-* ‘(summer) pasture’, 3.17.

3.17 — PASTURE (SB.) — *wesi-* is from PIE **wes-* ‘pasture, protect flocks’, cognate with Avest. *vāstra-*, adj. *vāstrya-* (with numerous further derivs.; see *HIE* 98), Skt. *svāsara-* < **su-vasar-* (Renou, *Études védiques et pāninéennes* 10 [1962]: 75), perhaps Toch. A **wāsri* ‘grassland’ (Van Windekens, *Le tokharien* 565). See further 3.18.

H. *wellu-* ‘meadow’, besides Puhvel’s derivation fr. **wel-su-* (1.23), has also been reconstructed **wes-lu-* by Čop (*Ling.* 6 [1964]: 44, 51), but the existence of *wesi-* plus the unsupported *l-*suffix (cf. *EHS* 252-3) make this etymology doubtful.

Luw. *lapana-* ‘summer pasture’, with derivatives *lapanali-*, *lapanallahit*, *lapanuwani-*, adj. *lapanassi-*, Hier. vb. *lapanali-*, is obscure (*CHD* 3.40-41).

3.18 — HERDSMAN — ^{LÚ}*westara-* matches Avest. *vāstar-* both formally and semantically, from PIE **wes-tr-*. As pointed out by Benveniste (*HIE* 97-101), the Hittite and Avestan terms *wes(iya)-* and *vāstrya-*, etc. have to do with ‘protecting; ruling’ as well as simply ‘pasturing’, allowing the reconstruction of an original sense of **wes-tr-* as ‘shepherd, pastor, protector of the flocks’, with very early transfer to the relationship between men and the gods. Details of possible ultimate connections of this root **wes-* with its many IE homophones (*IEW* 1170-73) remain to be worked out.

^{LÚ}*lapanalli-* is from Luw. *lapana-* ‘(summer) pasture’, with deverbative parallels e.g. Lat. *pāstor*, Lith. *ganytojas*, OCS *pastyri*, *pastuchŭ* (*DSS* 149-50).

3.19 — STABLE, STALL — Like other ancient IE speakers, the Hittites had no native word for the technologically advanced notion of a separate, enclosed building for the housing of livestock. They may have adapted an old word meaning ‘standing-place’, ‘pen’, or ‘hut’ (cf. H. *hali-* ‘pen, corral’; *asau[w]ar* ‘fold’), as happened in the other dialects, or may simply have adopted the

indigenous terminology that appears ideographically as É GUD ‘Rinderstall’ or É ^{LÚ}IŠ ‘Haus des Wagenlenkers’ (HWb. 270).

According to E. Neu (*Interpretation* 162), Ékizzumi- refers to ‘Stallung’ in KUB XXXV 148 III 40 GUD-us Éki-iz-zu-mi-ya dakkudaku-wair ‘sie trieben die Rinder zum k.’ (T 598), but no etymology is apparent.

3.20 — CATTLE — The survival of PIE *g^wōu- into Anatolian is indicated by Hier. ^{cow}wawa- (HWb. Erg. 2: 47; Laroche, BSL 62 [1967]: 59), Lyc. wawā (Laroche, loc. cit. 59-61), and H. nom. sg. GUD-us, acc. GUD-un (HWb. 275; cf. N. Oettinger, MSS 34 [1976]: 101-2).

3.21 — BULL — GUD.MAH (nom. sg. GUD.MAH-as).

3.22 — OX — Regularly GUD. The unclear bovine designation ^{GUD}hursalami- might belong here, if related to hursakniya-, the latter referring to some kind of roasting, drying up, or destroying by fire (T 308), thus ‘cauterizing’?; cf. Lat. ūrere, OE (ā)fyrian ‘castrate’, lit. ‘burn (off)’.

3.23 — COW — GUD.ÁB.

3.24 — CALF — (GUD.)AMAR.

3.25 — SHEEP — Luw. hawi-, Hier. ha-wa/i-i-ša, Lyc. χawā, and H. *hawi- (UDU-is) reflect the initial laryngeal phoneme in PIE *A^w₁owi-, attested only indirectly or lost without trace in Gk. οἶς, Lat. ovis, OIr. ói, OHG ouwi, Lith. avis, OCS ovica, Skt. avi-, etc., and seen as well in Arm. hovi-w (T 230).

(UDU)iyant- is originally the participle of i- ‘go’, and the notion of ‘walking wealth’ is comparable with Gk. πρόβατα and ON

ganganda fé (Pedersen, *Hitt.* 148) as well as Oscan *éitiuvam* ‘pecuniam’ < **ey-tu-* (P 348 with refs.).

3.26 — RAM — UDU.NITÁ-*an*, acc. sg., also UDU.ŠIR (ŠIR ‘testicle’).

3.27 — WETHER — Possibly UDU.ŠE ‘fatted sheep’, cf. Ved. *pétva-* ‘wether’ < *pī-* ‘grow fat’.

3.28 — EWE — ^{UDU}U₁₀.

3.29 — LAMB — (^{UDU})ÁŠ.SAL.GAR. Tischler (*HDW* 47) tentatively assigns *lazzandati-*, on the basis of *Kbo* XXIV 26 III 3-4 [...] *hāwēs lazzandatin hasta* [... *laz*]zandatis ^D*Aindupinzu hasta* ‘“Sheep” begot *l*; *l*. begot *A*.’, but *CHD* (3.50) infers no more definite meaning than ‘an animate being’.

3.31 — SWINE — ŠAH(-*as*), Akk. *šahū*. Neu (*Interpretation* 60, n. 6) suggested H. *huntari-*, which Tischler (T 288) connected with *huntariya-* ‘fart’ (4.64) and *huntarnu-* ‘grunt’; cf. NE slang *oinker*.

3.32 — BOAR — Possibly ŠAH IZ.ZI ‘wild hog’, lit. ‘forest swine’, like MW *baed coed* (*HWb.* 293).

3.33 — BARROW — ŠAH ŠE, lit. ‘fat hog’, plausibly refers to the castrated variety; although lacking the Skt. support enjoyed by its ovine counterpart UDU ŠE (3.27), the greater growth of the neutered animal is alluded to negatively in SCr. *nerast* ‘boar’, and perhaps positively in Lat. *maialis* ‘barrow’ (*DSS* 162, 163).

3.34 — SOW — ŠAH SAL.AL.LAL.

3.35 — PIG(LET) — ŠAH.TUR.

3.36–3.38 — GOAT — MAŠ ‘goat’, MAŠ.GAL ‘he-goat’, ÛZ (Akk. *enzu*) ‘nanny-goat’, MAŠ.TUR ‘kid’ (Akk. *puḫādu*).

3.41 — HORSE — While Hitt. texts universally employ the sumerogram ANŠU.KUR.RA, lit. ‘mountain ass’ (cf. 3.46), evidence for an Anatolian reflex of PIE **ekwo-* comes from Hieroglyphic Luwian (Karatepe) *ašuwā-* (Phoen. *ss*). A further survival may appear in the first element of H. ^{LU}*assussanni-* ‘horse-trainer’, if from Mitannian **ašva-* or the like; see for discussion P 222–23, T 91. For discussion of the original source of IE **ekwo-* see A. Goetze, *JCS* 16 (1962): 34–35.

3.42 — STALLION — ANŠU.KUR.RA.NITÁ, lit. ‘male horse’, ANŠU.KUR.RA.MAH(-as) ‘stud horse, stallion’. To the etymological kin of Lith. *ežžilas*, Latv. *ērzēlis* have been added H. *ark-* ‘mount, copulate’ (4.67) and pl. *arkiyēs* ‘testicles’ (4.49).

3.44 — MARE — ANŠU.KUR.RA.SAL(.AL.LAL).

3.45 — FOAL — Besides ANŠU.KUR.RA.TUR, H. *kūrka-* may mean ‘foal’, comparable to NPers. *kurra* ‘foal’, Gk. *κύρνος* ‘illegitimate son’; perhaps borrowed in Arm. *k’urak* ‘foal’ (B. Forssman, *KZ* 94 [1980]: 70–74; T 651).

3.46 — ASS (DONKEY) — Hittite uses the same basic ideogram, ANŠU, for *Equus asinus* as it does for the donkey’s later-imported congener *E. caballus* (ANŠU.KUR.RA). As Buck notes (*DSS* 172), the Sumerian word is generally reckoned to be ultimately related to Lat. *asinus* and its many European equivalents, as well as to Gk. *ὄνος*. Male and female of the species are predictably expressed by

ANŠU.NITÁ and ANŠU.SAL(.AL.LAL) respectively, with the alternative EMÈ also for the latter ('jenny').

3.47 — MULE — ANŠU.GÌR.NUN.NA.

3.51-3.55 — CHICKEN — While a very large number of different bird-names have been collected (cf. 3.64), not one can yet be reliably identified with the domestic hen. Even Sommer and Ehelolf's tentative location here of MUŠEN.GAL 'large bird' (*Pāpanikri* 64), though paralleled by Gk. ὄρνις 'hen' and NE *fowl*, is challenged by B. Landsberger (apud Friedrich, *HWb.* 287), who reads rather 'goose'.

3.56 — GOOSE — Although 'goose' may be MUŠEN.GAL as mentioned above (3.51), essentially it suffers from the same indeterminacy as most other Hitt. bird-names.

3.57 — DUCK — Like most other birds, which of the many attested Anatolian names referred to the *Anatidae* is undetermined. *CHD* (3.6-7), however, confidently and no doubt rightly interprets H. *lah(h)anzan(na)-* as some kind of duck. It further specifically identifies MUŠEN HURRI 'sheldrake' as *Tadorna tadorna* (following Landsberger, *WO* 3.3 [1966]: 262-66).

3.61-3.612 — DOG — UR.ZÍR 'dog', UR.ZÍR SAL.AL.LAL 'bitch', UR.TUR 'puppy'.

3.63 — MOUSE — A. Götze (*ZA* N.F. 6 [1930]: 65-70) collated the personal name ¹*Mashuiluwa-* and its allograph ¹PIŠ.TUR-*wa-* to recover H. or Luw. *mashuil-* 'mouse'. Connection with PIE **mūs-* is unlikely; Hattic or Hurrian origin seems more probable.

3.64 — BIRD — The occurrence of pl. *suwais* once for MUŠEN-*es* reveals a Hitt. cognate (/swai-/ < *s-A₂woi-) of Indo-Iranian *vi-, Arm. *haw-* (< *A₂wi-), Lat. *avis* (< *A₂ew-is), etc. (cf. J. Schindler, *Die Sprache* 15 [1969]: 144-67, also tying in Gk. ὄρν, Lat. *ovum*, etc. 'egg' as *ō-Hwy-óm).

wattai- may be 'bird' in general (HWb. 249) or some specific kind (Otten - von Soden, *Vokabular* 40, n. 2); cf. the name ¹*Watti-hahla-* 'Yellow-bird' (Tischler, *Serta Indogermanica* 452).

A fairly large number of specific bird-names are attested (cf. the list at EHGl. 22-23), especially in ornithomantic contexts; a few can be identified more or less exactly. Besides *lahhanza-* 'duck' (3.57), attempts have been made, for example, on *alila-*, *aliliya-* (: Lat. *olor*, OIr. *elae* 'swan' [P 34-35]), *aramni-* (: Gk. μέρμνος 'falcon, hawk' [P 127-28]), *arda-* 'heron' (P 175-76), *hapupu-* 'owl' (T 167), *hara(n)-* 'eagle' (: Gk. ὄρνις? [T 170-71]), *kakkapa-* 'partridge'? (T 461), and *kallikalli-* 'falcon' (T 466). The name of *pattarpalhi-* recalls the North American "Broad-winged hawk," *Buteo platypterus p.*

3.65 — FISH — KU₆-*u-* (Akk. *nūnu*) may correspond to (possibly incomplete) *parhu[-* (EHS 252); a derivation from *parh-* 'hurry, leap about; hunt' would make sense in terms of the darting movements of fish-schools.

3.66 — FISHERMAN — LÜŠU.PIŠ.

3.71 — WOLF — In addition to UR.BAR.RA (Akk. *barbaru*), there is *ulip(pa)na-*, a possible cognate of Lat. *vulpes*, Gk. ἄλώπηξ, Lith. *lāpė*, Bret. *louarn* 'fox' (perhaps also OIr. *Olc*, Primitive Ir. *Ulcagnus*; cf. IEW 1178; Tomás Ó Cathasaigh, *The Heroic Biography of Cormac mac Airt* [Dublin, 1977], p. 33-34), RV *lopāśá-* 'jackal', all

of which could be tabuistically deformed distant relatives of IE **w_llk^w_o-* / **luk^w_o-*.

ON *vargr*, Sw. *varg* have an important cognate in H. *hurkel* 'crime', 21.41.

3.72 — LION — *walwalla-* is inferred from the collocation of LÚ.MEŠ₂*walwalla-* and LÚ.MEŠ₂UR.MAH 'lion-men'. It may be from the same ultimate source as Gk. λέ(φ)ων, thus **(wa)-lwa-lla-*; Puhvel (P s.v.) also suggests verbal origin in PIE **wel-w-* 'steal', comparing semantically ON *vargr* 'wolf' < 'robber' (< 'strangler').

A different type of lion, perhaps 'winged lion' or 'sphinx', is denoted by *awiti-*. G. Neumann's analysis (KZ 77 [1961]: 76-77) as **owi-edi-* 'sheep-eater' has to be rejected because the Anatolian reflex of IE **owi-* (i.e. **Aw₁ówi-*) is Luw. *hawī-* (3.25). Better is the comparison (P 246, with refs.) with Lat. *invīsus*, Hom. ἀἰδηλος 'fierce, hateful', lit. 'un-faceable, terrible', from **_h-wid-*.

3.73 — BEAR — H. *hartagga-* (/hartka/) shows that the PIE reconstruction is **A₁rtkō-*, seen also in Gk. ἄρκτος, Lat. *ursus*, OIr. *art*, W. *arth*, Skt. *ṛkṣa-*, and Av. *arəša-*. A further connection with Skt. *rákṣas-*, Av. *rašah-* 'destruction' < **A₁retk̑-* (P s.v.) also makes good sense, as the author's personal experience can confirm.

3.77 — ELEPHANT — H. (or Luw.) *lahpa-* 'ivory' (KAxUD AMSI, lit. 'elephant's tooth') is reminiscent of Gk. ἐλέφας, and may be likewise of Egyptian origin (DSS 189); cf. Laroche, *RPh.* 39 (1965): 56-59.

3.79 — HUNT — **hurna-* (iter. *hūwarniskizzi*, inf. *hurnuwanzi*) was compared by Čop (*Slav. Rev.* 7 [1954]: 232) with Latv. *vērt* 'run', OCS *variti* 'precede'. A base-meaning 'go quickly; flee' plus causative yields the sense 'make run away, hunt' in **hurna-*, Lith.

varỹti, SCr. *juritī*, with parallels in H. *pittenu-* (below) and many other IE hunting-words (DSS 190-91); Gk. αὐρι-ταχέως, Aesch. αὐρι-βά-τᾱς ‘swift-striding’ supports a reconstruction **A₁w(e)r-*.

pittenu- (Luw. *pittanu-*) has the same meaning, being causative to *pittai-* ‘run, flee’ (10.41).

siyattaliya- is denominative from *siyattal-* ‘spear; arrow’ or the like, derived from *sai-*, *siya-* ‘shoot; press; seal’ (like RV *sāyaka-* ‘missile’) < PIE **seE₁-* ‘throw’ (cf. 9.432).

‘Hunter’ is often LÚ UR.ZÍR-*a-* ‘dog-man’, fittingly for the practice of running down game reflected in *hurna-* and *pittenu-*, and recalling Gk. κυνηγέτης ‘hunter’, lit. ‘dog-driver’ (cf. KUB XXXIII 121 II 11-12 [“Kessi-Saga”] ¹Kessis-za ^{GIS}ŠUKUR *sarā dās* UR.TUR^{HIA} EGIR-*an-seit halzais n-as* INA ^{HURSAG}Nattara *hurnuwanzi pait* ‘Kessi picked up his spear, called the dogs after him, and went to Mt. Nattara to hunt’). An alternative hunting technique appears in H. *appaliyalla-* ‘trapper’, derived via *appalai-* ‘(en)trap’ < *appala-* ‘trap, snare’ < *ep(p)-*, *ap(p)-* ‘seize’ (11.14); cf. P 95-96.

3.81 — INSECT — Hittite entomological nomenclature presents a picture similar to that of its ornithological terminology, but on a smaller scale. Although a general term for ‘insect’ is unknown, a few varieties can be identified with varying certainty (e.g. *lalakuesa-* ‘ant’ [CHD 3.27], *mutgalla-* ‘caterpillar’ [N. van Brock, RHA 20 (1962): 101], *gagastiya-* ‘grasshopper’? [T 462], *masa-* ‘locust’), still others remain obscure (see e.g. HDW 124 and speculations on several further forms in *Alimenta* 86-93).

3.82 — BEE — NIM.LÀL (Akk. *nubtu*); LÚ NIM.LÀL ‘beekeeper’.

3.84 — WORM — Tischler offers *wagai-* 'Mehlwurm' (HDW 124); if this meaning is correct (EHS 207 "unbekannter Bedeutung"), derivation from *wak-* 'bite' (4.58) is conceivable.

3.85 — SNAKE — The name of *illuyanka-* or *elliyanku-*, the serpent or dragon slain by the storm-god in Hattic mythology, is probably of indigenous origin (P 359). Attempts by Sayce (JRAS 1922: 185) and Kretschmer (KZ 55 [1928]: 80) to find an IE etymology involving Gk. ὄφις, Lat. *anguis*, Skt. *āhi-*, etc. are rejected by Tischler (T 355), although unresolved problems of phonetic detail in the latter forms still leave the question open. Sum. MUŠ.

PARTS OF THE BODY; BODILY FUNCTIONS AND CONDITIONS

4.11 — BODY — Hitt. *tuekka-* ‘body; self, person’ is most often connected (since W. Petersen, *Lg.* 9 [1933]: 18) with Skt. *tvác-* ‘skin, hide’, IE **twek-os*, with semantic development as in Skt. *śārīra-* ‘body’ : *śārman-* ‘cover(ing)’, OPruss. *kērmens* ‘body’ : RV *cārman* ‘skin’, OHG *līchamo* ‘body’ : OE *hama* ‘covering’. Specialization in another direction is seen in the Gk. *σάκος* ‘shield’, originally referring either to its material (ox-hide) or function (covering, protection).

E. Risch’s alternative comparison of *tuekka-* with Gk. *σάρξ* ‘flesh’ (*Die Sprache* 7 [1961]: 93-98), though semantically tenable, is phonetically difficult, and is doubted by Gusmani (*Lessico* 50, n. 42).

4.12 — SKIN; HIDE — The Hitt. word ^(KUŠ)*kursa-* ‘skin, hide; (esp.) fleece’ seems at first sight derived from *kurs-* ‘cut off’, like Gk. *δέγμα* : *δέγω* ‘cut’, OIr. *seche* : Lat. *secāre*, etc. (thus Sturtevant, *Comp. Gr.*¹ 119, *Comp. Gr.*² 56), but lack of derivational parallels casts doubt on this simple explanation (*EHS* 189, T 655). Some scholars (e.g. Pisani, *Paideia* 8 [1953]: 308), on similar semantic grounds, have compared Skt. *cārman* ‘hide’, Lat. *corium* ‘leather’, etc., positing IE root-connection in **(s)ker-* ‘cut’, but these forms probably belong with H. *kariya-* ‘hide, cover up’ from a homophonous root (see 12.26).

Another approach to *kursa-* sensibly considers it a Cappadocian loanword, akin to Akk. *gusānu(m)* ‘leather bag’ and Gk. βύρσα ‘hide; leather’, whence MLat. *bursa*, MHG *burse*, NHG *Börse*, *Bursch*, Fr. *bourse* ‘purse’ (EHS 139; Gusmani, *Lessico* 32; T 655-56 with refs.).

Skt. *tvac-*, Gk. σάκος match H. *tuekka-* ‘body’, 4.11.

4.13 — FLESH — The ideogram UZU (Akk. *šīru*) is universal. ^{UZU}*suppa-* means specifically ‘ritually pure’ flesh, from *suppi-* ‘pure’ (15.87). There is also *uzi-* ‘Fleisch, Eingeweide’, of Hurrian origin (HDW 98).

4.14 — HAIR — *ishiyani-* ‘body hair’ is from *ishiya-* ‘bind’ (see 9.16); a parallel to this strange shift is the cognate Lat. *saeta* ‘coarse hair, bristle’ (Oettinger, *MSS* 35 [1976]: 101); cf. P 400, 402.

The usual word for ‘hair’, *tetana-*, is obscure.

4.142 — BEARD — *zama(n)kur-* ‘beard’, *samangurwant-* ‘bearded’ apparently belongs with Skt. *śmāśru-* (Laroche, *RHA* 11 [1950]: 40-41), entailing Arm. *maṭwruk* ‘beard’ as well as OIr. *smech*, Lith. *smākras* ‘chin’, from IE **smek̑-*, **smok̑(-ru)-*.

4.15 — BLOOD — *eshar-* or *ishar-* has long been recognized as the Hittite cognate of Gk. ἔαρ, Skt. *ásrg-*, etc. (DSS 206), IE **ésH₁-*/**ésH₂-*. It is particularly well endowed with derivatives, e.g. *eshanant-*; adjs. *eshassi-*, *eshanuwant-* (Luw. *ashanuwant-*), *eshaniya-*, *ēsharūil*; verbs **eshaneski-*, *eshariya-*, *esharnu-* (Luw. *asharnu-*), *esharnumai-*; *eshar iya-* ‘shed blood’ (P 305-13).

The term denotes ‘dark (i.e. venous) blood’ (BAD.GE₆, Akk. *adammu*; Gk. αἷμα κελαινόν), as opposed to ‘bright (arterial) blood’ (BAD.UD, Akk. *sarku*), represented by H. *mani-*, of

unknown affinity (Knobloch [*Kratylos* 4 (1959): 38] derived it from IE **mā-ni-* 'damp, moist' [IEW 699], as in Lat. *mānāre* 'flow, trickle').

4.16 — BONE — One of the key discoveries for initial PIE (voiceless) *o*-coloring phoneme **A^w₁-* (besides Luw. *hawī-* 'sheep', 3.25) is H. *hastai-* (Luw. *hassa-*), cognate with Gk. ὀστέον, Lat. *os*, Skt. *ásthi-*, etc. (first in Benveniste, *BSL* 33 [1932]: 139), IE **A^w₁ést-* (*ō*)*i-*. The initial laryngeal has further fueled speculation on the possible relationship of Lat. *costa* 'rib', OCS *kostĭ* 'bone' (e.g. A. Martinet, *Phonetica* 1 [1957]: 22; E. Polomé, *Evidence* 40 and n. 176). Cf. T 202-3.

hastai- is joined by denom. *hastiyant-* 'bone' and possibly *hastali-* 'hero' (T 203-4); É *hastiyas* is the 'bone-house' in which the bones of the cremated dead are placed, after being dipped in a jar of fat and wrapped in linen, in a funeral ceremony remarkably reminiscent of the rites for Patroklos and Hektor in *Iliad* 23.224-54 and 24.782-804 (cf. Gurney, *The Hittites* 164-69).

4.162 — RIB — ^{UZU}TI is usually read *tapu(wa)s-* (with denom. *tapuwassant-*) 'Rippe, Seite' (HWb. 212, HDW 85, EHS 260, 328, 341-42, 343); the primary meaning may be 'side', given the case-form advs. *tapusa-*, *tapusza-* 'sideways; beside' (12.36).

4.17 — HORN — *karawar* is cognate with the common IE stock from **kérA₂-*, related to Gk. κέρας, Lat. *cornū*, Goth. *haur̥n*, Skt. *śṛṅga-*, Av. *srū-* 'horn'; Skt. *śíras-*, Gk. κάρον, Arm. *sar*, Lat. *cerebrum*, OHG *hirni* '(fore)head; peak', etc. The Hitt. word (and Lyc. *keruti-* 'horned animal') includes a *u*-extension (or suffix) **kérA₂w-r-* or **kérA₂-w-r-*, linking it with such originally adjectival forms as Gk. κέρα(φ)ός 'horned', Lat. *cervus*, W. *carw* 'deer', OPruss. *sirwis* 'doe', etc. (T 500-2).

(^{SI})*sawatar-*, neut. *sawitra-* and agent-noun *sawatar-* ‘horn-player’ is both the drinking horn and the musical instrument (HDW 73, HWb. 189).

4.18 — TAIL — KUN (Akk. *zibbatu*) is tentatively equated with H. (^{UZU})*sisai-* by Tischler (HDW 76) and Hoffner (EHGl. 87), the latter rejecting Friedrich’s reading ‘tooth’ (HWb. 194).

4.19 — BACK — *iskis-* ‘back’ may refer originally to the horizontal ‘ridge’ of animals, to judge from its toponomastic use in HUR.SAG *Iskisa-* ‘Mt. I.’ (Laroche, RHA 19 [1961]: 78-79; EHGl. 60, n. 116), like Lat. *dorsum*, OE *hrycg*, NHG *rücken*, Gk. *ῥῶτον*, etc.

Etymology is complicated by the indeterminacy of formation. Assuming the initial *i-* to be prothetic (cf. *ispant-* ‘night’ [14.42]), Hrozný connected *-skis-* with OIr. *sciath* ‘shoulder blade’ (SH 42, n. 1). A stronger comparison, based on an analysis *isk-is-*, ties in Gk. *ἰσχίον* ‘hips’ (F. Ribezzo, *Rivista indo-greco-italica* 4 [1920]: 130); the expression *iskisa pai-* ‘mount, copulate with’ (used of animals) apparently supports this connection by focusing specifically on the lower part of the back (P 425). Further suggested cognates are Lat. *ilium* ‘loin, flank’ (Ribezzo, loc. cit.) and Gk. *ἰξύς* ‘waist’, Skt. *sákthi-* ‘thigh’ (T 401-2).

4.20 — HEAD — The Anatolian words for ‘head’, *harsar* (with hypostatic *harsan[a]-*) and *halant-*, as well as *hupalla-* ‘skull’ (or the like), share an initial *h-* whose source is hard to determine, making etymology difficult in each case. If *h-* could be shown to come from IE **k̑-* (contrary to the normal outcome), then multiple possibilities would present themselves: *harsar* is comparable with Skt. *śíras-* (gen. *śírṣṇás*), Gk. *κεῖνίον*, and other forms from IE **kerA₂-* (T 185; add too Gusmani, *Lessico* 23); *halanta-* has been matched with OCS *glava*, Lith. *galvà* ‘head’, Arm. *xalam*, Lat. *calva* ‘skull’ < **kel-* (T 126-

27); *hupalla-* recalls Gk. κεφαλή 'head' and κύπελλον 'cup', Skt. *kapāla-* 'skull', Goth. *gibla* 'gable' (**ghebhel-*; refs. T 291). Yet all these must remain only enticing possibilities in the absence of a convincing explanation of the shift from expected Hitt. **k-* to attested *h-*. Assumption of analogical influence from *halanta-* 'head' (W. Petersen, AO 9 [1937]: 203; T 185) begs the question, by abandoning *halanta-* itself to non-IE origin in order to account for the *h-* on which the analogy is based. Further undermining an analogically shifted original **k-* are Luw. *harmahi-* 'head' (: H. *harsar*) and Lyc. *qla* 'chief, head man' (: H. *halanta-*). Finally, the expected outcome of **ker-/k̥r-* may appear intact in the second element of H. *kitkar-* 'at the head of' (T 596-97).

The prudent course is thus to seek a source in either an IE **H₁₋*, e.g. a connection (A. Juret, *Vocabulaire* 12) with Lat. *altus* (**A₁el-*), or indigenous sources (as in the case of *hupalla-*, 4.202).

It might be possible to rescue one or more of the above comparisons by a reconstruction (suggested by Puhvel, p.c.) like *(*k̥*)*H₁erA₂-s-*, with movable *k-* as in Gk. *καπρός* : Lat. *aper* 'boar' (perhaps also relevant for H. *hastai-* 'bone' vs. Lat. *costa* 'rib', OCS *kostĭ* 'bone', 4.16); thus H. *harsar* < **H₁rA₂s-ŕ*, Skt. *śīras* and Gk. *κοῤῥνίον* < **k̥H₁rA₂-*. Russ. *kozá* 'goat' (: Skt. *ajā-*?), though, may indicate rather the non-palatal velar for *k-*mobile, and the whole approach seems difficult.

4.202 — SKULL — The unlikely derivation of initial *h-* from **k-* probably rules out any connection of H. *hupalla-* 'skull' (vel sim.) with Gk. κεφαλή, Skt. *kapāla-*, etc., as discussed above. More reasonable is a tie-in with various indigenous vessel-names including *huppar*, *huppi-*, *huprushī-*, *hupurni*, *hupuwai-*, with semantics as in Lat. *testa* or NHG *kopf* 'head' < 'plate' or 'cup' (S. Alp, *Anatolia* 2 [1957]: 6-7; T 291).

The source of H. *tarna-*, Luw. *tarsama-* ‘skull’ (HDW 87) is unknown.

4.204 — FACE — *meni-* ‘face’ (IGI.HI.A-i-) is probably also the first element in *menahhanda* (IGI-*anda*) ‘opposite, against’, from dat. *mena-* + *hant-* ‘before the face’ (HWb. 141). For root-connection, Lat. *mentum* ‘chin’, W. *mant* ‘jaw, mouth’, Goth. *munþs* offer a possibility, **m̥n̥-(to-)* (cf. Lat. *ē-*, *prō-minēre* ‘stand out’); with transfer of ‘chin’ or ‘jaw’ to ‘face’ as in Latv. *vaigs*.

4.205 — FOREHEAD — H. *hant-* ‘front, forehead’ (cf. Lat. *frōns*) reflects, according to Gusmani (*Lessico* 22), an archaic PIE root-noun, from which other languages preserve petrified prepositional case-forms (Gk. ἀντί, Lat. *ante*, cf. H. *hanti-*) or suffixed nouns (OIr. *étan*, OHG *andi* ‘forehead’, Skt. *ánta-* ‘limit, end’), thus IE **A₁ent-* (cf. T 149-54).

4.206 — EYEBROW — *enera-*, *inira-* and further variants (P 271-72) are unrelated to the IE group from **bhrū-*, and probably autochthonous. Likewise for the clearly distinct *laplipa-* ‘eyelash’ (cf. EHS 119), separate also from ‘eyelid’ (KAPPI ENI) (ibid.).

4.208 — CHEEK — *parsina-* may be ‘cheek’ or ‘jaw’ (HDW 61), possibly referring to its shape, like very many IE synonyms (DSS 220-24), cf. *parsna-* ‘loin; thigh’ and *parsnai-* ‘hook downward’. Cognates are Skt. *pārṣṇi-*, Av. *pāsna-* ‘heel’, Gk. πτέρον (?), Lat. *perna* ‘calf; thigh; leg’, *pernix* ‘swift, agile’ (< ‘heel’), Goth. *faírsna* ‘heel’, IE **pers-n(e)A-* (IEW 823).

4.21 — EYE — Hittite *sakui-* (Luw. *tawi-*), with pl. *sakuwa* and by-form *sakuni-* ‘fountain’ (1.37), is connected with Gk. σοφός ‘wise’ (17.21) and σάφα ‘clear’ (17.34) via IE **dhyog^wh-* or **dhyag^wh-*

(AI 265-66, 313-21), opening a window into the distant Indo-European past when 'vision, insight, clarity' and 'wisdom' were conceptually inseparable.

4.22 — EAR — Terms for 'ear' and 'hearing' in Anatolian (H. *istaman*[a]-, *istamas*-; Luw. *tummant*-, *tummantai*-) find no cognates among the widespread descendants of either IE **ōus*- or **klew*-. Instead they show a peculiar development from IE **stemH*₁-, apparently originally denoting a more general concept of 'sense-perception' (e.g. in IGLHLA-as *istamassuwar* 'perception of the eyes' = 'eyesight'; P 460), and specialized in another direction elsewhere: beside H. *istanh*- 'taste' (15.31), there are Gk. στόμα 'mouth', στόμαχος, Avest. *staman*- 'throat, maw', W. *safrn* 'jawbone', OHG deriv. *stimma* 'voice', among others (op. cit. 460-61).

hazzizzi- means 'ear' as well as 'understanding', like its Akk. source *hasīsu* (T 233-34).

4.23 — NOSE — Only KAxKAK securely belongs here; *kapru*- may mean this (T 494) or 'throat' (EHG1. 24, EHS 252).

4.24 — MOUTH — Here Hitt. continues and further illuminates the etymon of Lat. *ōs*, Skt. *ās*-, etc. The vocalisms of Lat. *ōs* and H. *a(y)is(s)*-, obl. *iss*- can be unified through a reconstruction **A^w₁éE₁-s*-, with zero-grade suffix in Lat., Skt., and Av. *āh*-, and **A^w₁éE₁-es*- > **ōyes* > H. *āyis*, gen **A^w₁E₁es-ós* (P 17; for **E₁* > -y- cf. Puhvel, *Evidence* 91-92 [= AI 137-38], LIEV 53-61). Luw. *ās(s)a*- also belongs here; details on the entire group T 6-8.

Lat. *ōra* 'edge, coast; rope' should be separated completely from *ōs* and company and attached rather to H. *arha*- 'line' (12.84), also meaning 'edge, boundary'.

Gk. στόμα and related forms find their identity through Hitt. *istaman(a)*- ‘ear’ (4.22).

4.25 — LIP — *puri*- is etymologically obscure. The Hitt. cognate of Lat. *labrum*, *labium*, OE *lippa*, etc. may appear in *lip(p)*- ‘lick’ (4.59).

4.26 — TONGUE — *lala*- (^{UZU}EME) ‘tongue; speech’, also ‘(harmful) speech, slander, blasphemy’ (CHD 3.21-25), is undoubtedly onomatopoeic, precisely a “Lallwort”; cf. Gk. ἀλάλη(μα) ‘(idle) talk, gossip, chatter’ (EHS 121).

4.27 — TOOTH — *kaga*- apparently matches OHG *hāko*, OE *hōk* (Laroche, RHA 31 [1973]: 90-91) < **k(o)ng-n-*, to which Tischler (T 460) adds Lit. *kėngė* ‘hook’, Russ. *kógot* ‘claw’.

4.28 — Neck — *kuttar* (^{UZU}GÚ) matches Lat. *guttur* ‘throat’ < **gut-r* (T 678-80). Puhvel (P 208) interprets the phrase GÚ-*tar sarā appātarr-a* as ‘self-assurance’, lit. a hendiadys ‘neck-lift’. Cf. *kuttanalli*- ‘necklace, collar’ (6.45).

4.29 — THROAT — *hurhurta*-, *hu(wa)hhurti*- is probably non-IE, of foreign or onomatopoeic origin (T 263), and perhaps borrowed in Arm. *xaxurt* ‘throat’.

tar(a)sna- is too doubtful (‘Kehle’ HDW 86,87; otherwise EHS 182,185) for meaningful etymology.

^{UZU}*pappassala/i*- ‘esophagus’ seems to be reduplicative from *pas*- ‘swallow’ (Alp, *Körperteilnamen* 14; Van Brock, RHA 20 [1962]: 94), semantically like most of its synonyms (DSS 233-35). Further root-connection is doubtful; a link with IE **bhes*- ‘breathe, blow’ (IEW 146) is possible, given Skt. *bábhasti*, *bapsati* (: Gk. ψύχω?) ‘blow’, *bhástrā* ‘bellows, leather bag’.

4.30 — SHOULDER — *paltana-* (suffix *-na-* as in *halhalzana-* below) is from IE **p_l-t-no-*, with parallel formations in Gk. ὠμοπλάτη ‘shoulder-blade’ and OCS *plešte* (**plet-yo-*), OIr. *leithe* (**plet-yā*) ‘shoulder’. With commonplace development ‘shoulder(-blade)’ < ‘flat surface’, the root-connection involves H. *palhi-* ‘wide, broad’ < IE **pél-A₁-*, **pl-éA₁-* (12.61).

halhalzana- (Luw. *halhalzani-*), *halhanzana-*, *halhaldana-*, when stripped of the secondary reduplication (cf. *gakkartana-* below), can be compared with Avest. *arəθna-*, RV *aratnī-* ‘elbow’, IE **H₁elt-no-* (P s.v.). Cf. further H. *halhaltumar* ‘corner’ (12.76).

gakkartan(a)i-, reduplicated as in *halhalzana-*, matches ON *herðr*, OHG *harti* (P s.v.), continuing another PIE term.

A cognate of Gk. ὤμος, Lat. *umerus*, Umbr. loc. *onse*, Skt. *ámśa-*, Arm. *us*, Toch. A *es*, B *āntse*, Goth. *ams* < IE **om(e)so-* may be Hitt. *anassa-* ‘hips, buttocks’ or ‘back of shoulders, upper back’ (Puhvel, JAOS 97 [1977]: 599; AI 416; P 63).

4.31 — ARM — While a meaning ‘upper arm’ has been suggested for *uzuishunau-* (T 392-93), the etymology seems to support rather ‘sinew; bowstring’ (Skt. *snāvan-*, Gk. νεῦρον, Arm. *neard*, Lat. *nervus* ‘sinew’, OHG *snuor* ‘cord’, etc., IEW 977; cf. Laroche, OLZ 57 [1962]: 30-31; Oettinger, MSS 35 [1976]: 93-97; P 403-4). A secondary development of ‘upper arm’ from ‘sinew’ is difficult to justify, though admitted as a possibility (via ‘biceps’) by Puhvel, *Bi. Or.* 38 (1981): 351.

4.33 — HAND — The contribution of H. *kessar* to the reconstruction of PIE ‘hand’, **ghes-ṛ-* (vs. Indo-Iranian **ghes-to-* > Skt. *hāsta-*, etc.), was clear already to Sturtevant (*Lg.* 3 [1927]: 121) and is explained briefly by Buck (*DSS* 238-39); many further refs. T 558-63.

Anatolian cognates include Luw. *issari-*, adj. *issarassi-*, Lyc. *izre-* (DLL 52-53).

4.34 — FINGER — Puhvel (AI 260-61, 349-52) explained Hitt. *kalulupa-* ‘finger; toe’ as the outcome of **tkad-ul-* < **dkm̥d-ul-* ‘(little) one of a tenfold’, with Gk. δάκτυλος (< **δάτκυλος*) by metathesis from the same form; Lat. *digitulus* belongs here as well. The meaning is much like that of Goth. *figgrs*, etc. < **penk^wrós* ‘one of a pentad’ < **penk^we*.

4.35 — LEG — *egdu-*, *igdu-* reflects **ey-gh-tu-* < **ey-gh-* ‘go’, cognate with Gk. οἶχομαι ‘go away’, ἵχνος ‘foot, footstep’, Lith. *eigà* ‘a going’ (EHS 252), Toch. B *yku* ‘gone’ (P 261), etc. (T 351), from **ey-* ‘go’. Similar metonymy appears in Skt. *jáñgha-* ‘lower leg’, Av. *zanga-* ‘ankle’ < **ghengh-* ‘walk, go’.

4.36 — KNEE — *genu-* faithfully reflects the ancient IE word in its oldest reconstructible shape.

4.37 — FOOT — *pata-* is a full-fledged member of the inherited group of Gk. πούς, Skt. *pad-*, Goth. *fōtus*, Lat. *pēs*, etc., thematized like Skt. *pāda-* (Gusmani, *Lessico* 23), and joined by Luw. and Hier. *pata-*, Lyc. *pede-* (DLL 81).

4.38 — TOE — *kalulupa-* is ‘toe’ as well as ‘finger’ 4.34).

4.39 — NAIL — Like most of the practically ubiquitous reflexes of IE **(o)nogh-*, H. *sanku(wa)i-* shows unexplained phonetic variations; according to Gusmani (*Lessico* 23) the latter are “di probabile origine tabuistica”—one thinks of the rather unsettling tendency of fingernails (and hair) to continue growing after the rest of the body is dead.

4.392 — WING — *pittar* (possibly *pattar*), gen. *pittanas* or *pattanas*, is from **pétH-ṛ/petH-ṛ-s* or the like (cf. Puhvel, *Hethitisch und Indogermanisch* 212-13 = *AI* 359-60) < **pet-* ‘fly’ (10.37). Cognate with Skt. *páttram*, Gk. *πτερόν* ‘feather’, and thus with Lat. *penna*, OIr. *ette* ‘wing’, OHG *federa*, etc.; the basic comparison was made already by Hrozný (*SH* 70-71).

partawar goes with the other IE term ‘fly’, **per-* (OCS *pariti*), akin to Skt. *parṇá-*, OCS *pero* ‘feather, wing’, Lith. *spaṛnas* ‘wing’, etc. (Goetze, *Lg.* 30 [1954]: 403; Benveniste, *BSL* 51 [1955]: 36-41; *EHS* 283-84). Puhvel (P 441-47) further tentatively connects Hitt. *ispar(r)-*, *isparriya-* ‘spread, scatter, fell; fly (?)’, suggesting this as the original PIE meaning (see 9.34).

4.40 — CHEST — *taggani-*, “ohne nachweisbares Grundwort” (*EHS* 222).

4.41 — BREAST — *tita-* seems to match Ital. *tetta*, OE *titt*, NHG *zitze*, etc., and forms denominative *titiya-*, *titiski-*, Luw. *titai-* ‘breast-feed’. Possibly an *n*-stem in Anatolian, if Luw. dat. sg. *titani* belongs here (*EHS* 196).

4.44 — HEART — IE **kērd(d)-* appears in H. nom. *kir* (and suffixless loc. *kir*), as in Gk. *κῆρ* and OPruss. *seyr*; with these belong Arm. *sirt* (**kērdi-*) and Goth. *hárto*, etc. (**kērd-on-*). Zero-grade **k̑rd(i)-* underlies Hitt. gen. *kardiyas* and *kartas*, and Gk. *καρδία*, Lat. *cor*, *cordis*, OIr. *críde*, Lith. *širdis*, OCS *srŭdĭce*, etc. (*IEW* 579). Other anatolian forms are Pal. *kārti* and perhaps Lyc. B *kridesi* (A *kerθθi*) (T 556-58).

4.45 — LIVER — Although IE **yek^w-rt* does not survive in Hitt., the attested word *lesi-*, *lissi-* may have been its partner in a phrase

‘fatted liver’. The postulated development is from **loysi* or **laysi*, with cognates in Arm. *leard* ‘liver’ (< **lis-rt*, reshaped after **yek^w-rt* or *neard* ‘sinew’), Gk. *λαῖνός* ‘fatted’ (< **layes-r-īnos*), Lat. *lārdum*, *laetus* ‘fat, rich, fertile’. The meaning is paralleled in OE *lifer*, etc. (: Gk. *λίπος*, *λιπαρός* ‘fatted’) and French *foie*, Ital. *fegato* (Lat. [*iecur*] *ficātum* ‘fig-fattened liver’ (J. Schindler, *Die Sprache* 12 [1966]: 77-78; P s.v.). The same meaning appears in Pal. *bānnu-* ‘liver’ < IE **pen-nu-* ‘fattened’; cf. Lith. *penù* ‘fatten’ (Melchert, *KZ* 94 [1984]: 42-43).

The important role of hepatoscopic augury explains the meaning of adj. *lissiyala-* ‘oracular’, lit. ‘pertaining to the liver’, as well as the existence of a number of names for specific parts of the organ, mostly from Hurrian, e.g. *mazeri-*, *nipasuri-*, *sentahi-* (EHGL 55, HDW 52, 57, 74).

4.46 — BELLY; STOMACH — ^{UZU}*panduha-* ‘stomach’ resembles Lat. *pantex*, *pantices* ‘entrail(s)’, which came to mean ‘belly’ in Rum. *pîntece*, Ital. *pancia*, OFr. *panche* > NE *paunch*, Sp. *panza*. Root **pend-* ‘hang down’, with Lat. *-t-* analogical after *venter*, *uterus*, etc.? The same root may also occur in H. *pantala-* ‘moment’, 12.52.

4.47 — WOMB — For *genzu* ‘lap, womb’, also ‘love, friendship’, a derivation from IE **ĝenE-* ‘beget’ (H. Eichner, *MSS* 31 [1973]: 55) is phonetically inexplicable. The variant *gimzu* prompted Laroche’s reconstruction (*RHA* 23 [1965]: 51) from IE **gem(s)-* ‘contain, grasp’ (*IEW* 368-69), and comparison with Gk. *γέντα* ‘entrails’, though *γαστήρ* is best left as **γραστήρ* < **greHs-* ‘devour’ (Skt. *grāstar-* ‘devourer’ [*IEW* 404]). Derivatives: denom. *genzuwai-* ‘be friendly towards’, adj. *genzuwala-* ‘friendly, solicitous’.

sarhuwant- ‘womb; entrails; fetus’ (Akk. *ša libbi-ša*), from an unattested **sarh-*, may be comparable with Gk. *ὀρύα* (< **όρύα*)

'intestine' < **srA^w_I*- (cf. Schindler, *Die Sprache* 15 [1969]: 159; GEW 2.429).

A euphemistic reference to female genitalia is apparent in the story of the birth of Ullikummi, where Kumarbi becomes enamored of a huge rock and *katta-kan kuit harzi* 'what it has underneath'.

4.49 — TESTICLE — *arki-* (attested as nom. pl. *arkiyēs*, acc. *arkius*) matches Gk. ὄρχις, Arm. *orji-k'*, Alb. *herdhë*, Mlr. *uirgge* (**orgh-*, and is further cognate with Avest. *ərəzi-* 'testicle', Arm. *orj* 'male', Lith. *ežilas* 'stallion', *aržūs* 'lustful', and ON *argr* 'passive homosexual' (P 142-43). The etymon is an ancient *i*-stem from a verb **erġh-*, **orġh-*, attested in H. *ark-* 'copulate' and cognates in Gk., Slavic, and Indic (see 4.67).

4.492 — PENIS — IE **pes-*, seen in Gk. πέος, Skt. *pásas-*, Lat. *pēnis*, also yielded H. *pesna-* *'penis' (< **pes-no-*, parallel to Lat. *cunnus* < **kut-no-*; cf. Gk. κύσθος), which became synechdochically 'man, male' and gave rise in turn to *pisnatar* (LÚ-*natar*) 'manhood; male genitals, penis; sperm' (P s.v.). The meaning of the verbal root involved is suggested by H. *pes* 'rub' (Puhvel, *JAOS* 102.1 [1982]: 179; 9.31 below); cf. Ital. *fregare* (Oettinger, *Stamm* 327, n. 141).

hapusa- is from IE **A^w₁pus-*, with the denom. verb **A^w₁pus-ye-* reflected in Gk. ὀπιύω 'mount; marry'; with female subject the passive (Gortyn ὀπιυεθθαί) is used (cf. van Windekens, *Orbis* 27.2 [1978]: 318; C. Watkins, *Serta Indogermanica* 455-57).

genu- 'knee' (4.36) is also 'penis' (like Akk. *birku*). The symbolic connection of these concepts is apparently common in Indo-European, Semitic, and Finno-Ugric languages: cf. e.g. OE *cnēow*, OCS *kolěno* and Finnish *polvi*, Estonian *põlv*, all both 'knee' and 'offspring, generation', as well as OIr. *glún-daltae* 'knee-nursling'

(like Akk. *tarbit birkiya*); see the discussion and refs. by Puhvel in *Myth and Law Among the Indo-Europeans* (Berkeley and Los Angeles, 1970), p. 95, n. 40.

lālu- '(erect) penis' (HWb. 126) is most likely a lallwort, EHS 119.

4.51 — BREATHE; BREATH — *para-* 'breath; air' (HDW 60), *parai-* 'breathe; blow (up)', *paripariya-*, *paripareski-* 'blow a musical instrument' are comparable with OCS *para* 'steam, vapor', Gk. **πρήθω*, *πίμπρημι* 'blow up, inflate', as in IEW 809 (W. Petersen, AO 9 [1937]: 208).

4.53 — COUGH — *tuhh(ai)-*, iter. *tuhheski-*, with nouns *tuhhima-*, *tuhhiyatt-*, is to be connected with *tuhhui-*, *tuhhuwai-* 'smoke' (1.83). The equation of smoke with respiratory distress was a natural one in the days before the custom of its intentional inhalation: e.g. Gk. *καπνός* 'smoke' vs. Goth. *af-hwapjan* 'choke'; OE *smoca* vs. Lith. *smáuhti* 'stifle'.

4.55 — SWEAT — The verb *allaniya-*, occurring in hippological texts, probably means 'sweat', and on this basis is compared with the OIr. noun *allas* 'sweat', providing a rare Hitt.-Goidelic isogloss (**aln-*, vs. W. *chwys* < IE **sweyd-*; cf. Pedersen, *Féil-Sgribhinn Eóin Mhic Néill* [Dublin, 1940], p. 142; Benveniste, *HIE* 107; P 28-29, T 14). *zappiya-*, primarily 'drip, leak' (10.24), can also refer to perspiration (P 28-29).

enumai-, lit. 'become heated' (< **ay-* 'be hot', 15.85), also refers to horses, in which context the gloss 'sweat' (Neu, *Kratylos* 12 [1967]: 166) amounts to the same thing.

For the noun, the hapax *sishau-* may be a Hurrian loanword (EHS 251), and 'perspiration' is also a secondary meaning of

warsula- ‘moisture, wetness’ (P 28-29), a derivative of *warsa-* ‘rain’ (1.75; Laroche, *BSL* 58.1 [1963]: 59-62).

4.56 — SPIT — *allap(p)ahh-*, *alpahh-* is the Hitt. word, tentatively connected (P 31) with Gk. λάπτω, λαφύσσω, OE *lapian* ‘lap, slurp’, Arm. *lap’em*, Alb. *lap*, Lat. *lambō*, OHG *laffan* ‘lick’, from a root **lab(h)-*, **lap(h)-*, perhaps onomatopoeic in origin (cf. *EHS* 431, T 15). Details of formation unexplained.

4.58 — BITE — H. *wak-* (possibly Pal. *waq-*), iter. *wakkiski-* means ‘bite (off)’ (Friedrich, *AO* 6 [1954]: 373-76), and has been compared with Gk. ἄγνῦμι ‘break’ (**ḡag-*; Petersen, *AO* 9 [1937]: 212; A. Kammenhuber, *KZ* 77 [1961]: 47).

4.59 — LICK — *lip(p)-*, redupl. *lil(l)ipa(i)-* (*CHD* 3.71, 61), evidently belongs with Lat. *labium*, *labrum*, OE *lipa*, OHG *lefs*, etc. ‘lip’ < **lep-* (*IEW* 655). The Hitt. sense thus supports the connection of these with Lat. *lambō*, doubted by Buck (*DSS* 229).

4.61 — SLEEP — IE **sweep-/sup-* survives in H. *sup(p)-* ‘sleep; dream’, with vbl. noun *suppūwar*, and is also the basis of *suppariya-* ‘dream’ < **suppar* (see 4.62). The verbal use of this root is rare in comparison to the more common term *ses-* (Luw. *sassa[i]-*), which although violating normal IE root structure constraints (cf. *Les langues du monde* 8) is clearly ancient, matching Skt. *sas-*, Av. *hah-*.

Careful analysis of Hitt. and other reflexes of the two roots **sweep-* and **ses-*, however, can shed light on their early semantic relationship. Whereas H. *sup(p)-* and all its cognates mean basically ‘fall asleep and dream’ (cf. Ved. *svap-*), the sense of *ses-* clearly centers more around ‘lie down and rest; sleep with, lay (*seskiya-*); put to bed (*sas[sanu-]*; cf. *sast[a]-* ‘bed[ding]’); stay quiet (Luw. *sassa[i]-*; Ved. *sasvár[tā]* ‘stealthily’), with no suggestion of

‘dreaming’ (P s.v. *ses-*; Laroche, *RPh.* 23 [1949]: 39; Ivanov, *Peredneaziatskij sbornik* 311-20). Thus the distinction seems to be primarily one of “subjective” sleep and its related mental activity vs. “objective” inactivity, viewed from outside—“he is sleeping”—the former being the more ancient term (**swep-*), and the latter possibly from an interjection resembling Engl. *sh* ‘silence!’ (Mayrhofer, *IF* 70 [1965]: 249-51). A detailed discussion of IE **swep-* and its descendants is provided by J. Schindler, *Die Sprache* 12 (1966): 67-76.

4.62 — DREAM — The initial-variation in *tesha-* ~ *zashai-* strongly indicates a Hattic origin for the word, as do the theonymic alternatives *Tasha-*, *Zashapuna* (Laroche, *Recherches* 38-39). Many unsatisfactory IE etymologies have been attempted, involving e.g. Gk. δῆατο (Sturtevant, *Comp. Gr.*¹ 160), Skt. *dhī-* ‘perceive’ (Gusmani, *Lessico* 53), Lith. *dvasià* ‘ghost’ (A. Carnoy, *La Nouvelle Clío* 6 [1954]: 234), and others: cf. P s.v. *tesha-*. *tesha-* has essentially replaced the native nouns *suppūwar* and *sesuwar* (see 4.61), and the attendant periphrasis *teshit aus-* ‘see in a dream’ competes with *suppariya-*; cf. mpsv. *teshaniya-* (Û-at) ‘appear in a dream’. It also means ‘sleep’ (*teshalli-* ‘sleepy’) and ‘Beischlaf’ (*IŠTU SAL-TI teshas*).

The deriv. *suppariya-* itself is of considerable comparative interest, as its likely nominal basis **suppar* is not only cognate with Lat. *sopor* < **swép-ōr* (Sturtevant, *JAOS* 56 [1936]: 282-84), but matches Gk. ὕπαρ. Under polarizing pressure from the encroaching innovative ὄναρ, ὄνειρος ‘false dream’ > ‘dream’ in general, ὕπαρ was shifted from its original slot ‘dream’ to ‘true dream, real vision’ (cf. *Odyssey* 19.547, 565-76) and thence to ‘waking reverie’ (e.g. Frisk, *Kl. Schr.* 361-65; Mayrhofer, *Studien zur indogermanischen Grundsprache* [Vienna, 1952], p. 42-43). A

similar replacement appears in Germanic, e.g. ON *draumr* (: OHG *triogan* 'deceive') vs. *sofa* 'sleep'. P. s.v. *sup(p)*-.

4.63 — WAKE — *arriya*- 'rouse, awaken; be awake' is one of the many forms from IE **er-*, **or-* 'move, stir' (10.21), perhaps reflecting a caus. **(E₁)orH₂éye-*, like *araizzi* 'he rises'. It is echoed in Gk. (*Iliad* 10.518-19) ὤρσεν 'he roused' vs. ὕπνου ἀνοχοῦσας 'starting from sleep', and OIr. *ar-* 'be awake', *aire* 'watch', *airech*, Arm. *ar'own* 'watchful, attentive' have been compared (Szemerényi, *Studia mediterranea* P. Meriggi dicata [1979], p. 613-16). Cf. for meaning Engl. 'stir, be stirring' = 'be awake'. P 138-39.

4.64 — FART — *huntariya*-, when compared with *huntarnu*- 'grunt' and the possible *huntari*- 'swine' (T 288), seems to be based on a nominal or verbal stem **huntar-*, perhaps of imitative origin (T 289, EHS 457, Otten - von Soden, *Vokabular* 26). A link with *hūwant*- 'wind' (1.72) is also plausible; cf. NE "break wind."

4.65 — URINATE; URINE — Several etymologies have traditionally been defended for *sehur* (verb *sehuriya*-), including derivations from IE **sūr-o-* 'sour' (IEW 1039), **sē(y)-* 'sow', **sey-(k)-* 'trickle, drip', and **sew-(H)-* 'rain' (refs. in Puhvel, *Florilegium Anatolicum* 298, n. 5 = AI 366), but all present phonetic difficulties and require more or less tortured morphological and semantic explanations.

After careful dissection of the textual material, Puhvel (op. cit. 297-302 = AI 365-70) determined that the meaning of *sehur* was rather more inclusively 'body wastes, crap', with 'urine' a secondary marked sense in opposition to *sakkar* 'shit' (4.66), and considered it a verbal noun from *sah*-. Reinterpreting the latter as 'clog (with dirt), stuff up', etc. (separate from *sanh*-, *sahh*- 'seek, strive for' [9.99] and its homonym 'flush, wash down' [9.36]), he took a new approach in reconstructing it as an IE pf. **dhyóE₂-*, with

related forms having to do with 'dirt, crud, filth' and the like: **dhyeE₂-wr* > **dyehur* > H. *sehur*, Luw. *dūr* (< **deur* < **dyehur*) 'urine'; **dhoy-k-s* or **dhoyE-s* > Lat. *faex*, pl. *f(a)eces*; **dhoy-t-ē* > Lat. *foeteō* 'stink'; **dhi-mo-* > Lat. *fimur* 'dung, filth'. T. Schultheiss (KZ 77 [1961]: 222) saw a loanword in Arm. *šer* 'urine', *šr'em* 'urinate'.

4.66 — DEFECATE — *sakkar* (Luw. *sahh-* 'dirt, filth') has been compared with Gk. σκῶρ, etc. since Benveniste (*Origines* 9). Spelling variants *zakkar* and *zasgar-* indicate /(t)skar/ < **skōr*, while gen. *saknas* and derivs. *saknuwant-* 'filthy, full of shit, impure' and *saknumar* 'feces' call for a reconstruction **sókr*, obl. **sókn-* (Puhvel *Florilegium Anatolicum* 303 = AI 371).

The native Hitt. derivative verb *sakniya-* has a synonym *kam(m)ars-*, borrowed from or corresponding to Luwian *katmars-* < **ghed-mr-s* (with -s variously explained; cf. Puhvel, op. cit. 304 = AI 372 + 417, T 473-75) ~ **ghed-wr-*, cognate with Gk. χέζω, Skt. *had-*, Alb. *dhjes* 'defecate', Av. *zaḍah-* 'anus', Toch. B *kenmer* 'shit'.

salpa- '(dog) shit' (UR.ZÍR-*as salpa*) matches Arm. *alb*, and may be analyzed as **sal-* 'dirty, dirt-colored, gray' + *-bho-*, comparing OIr. *sal* 'dirt, filth', OW p. *halou* 'stercora', OHG *salo* 'dirty', Russ. *solovój* 'light bay' (Schindler, *Die Sprache* 24 [1978]: 45).

An etymology is now available for the previously unexplained Lat. *fimur* (DSS 276); see 4.65.

4.67 — COPULATE — The most common Hittite expressions for human sexual intercourse are euphemisms derived from *ses-* 'lie down' (4.61), thus 'sleep/lie with': *seski-*, *katta(n) ses-*; *sas(sa)nu-* 'make cohabit with'.

An alternative term referring more to animal coition is *ark-* 'mount, cover', the verbal root underlying *arki-* 'testicle' (4.49) and *arga-tiya-* 'come to violence' (: Skt. *rágħa-* 'rage, anger', P 147), with cognates in Gk. ὀρχέομαι 'dance (lasciviously); and Russ. *jěrzat*

'fidget' (P 142-43, 147-48; AI 290-92, 416; cf. for meaning possibly Engl. *frike* 'lusty, vigorous', *frig* 'dance, move briskly; fuck'.

Some insight into the Hitt. view of animal and possibly also human coital behavior is afforded by the expression *iskisa pai-*, lit. 'go to the back' (*iskis-* '[lower] back', 4.19); cf. Puhvel, *JAOS* 102.1 (1982): 179, AI 416, and P 425.

4.71 — BEGET — Besides DUMU(MEŠ) *iya-*, lit. 'make a child/children' (cf. NHG *kindern* or OCS *roditi* : *rodŭ* 'offspring'), Hitt. also uses *has-* 'bear' (4.72) in this sense.

4.72 — BEAR — The source of *has-* 'bear; beget' (Hier. *has[a]-*), pt. *hassant-*, iter. *haski-* has been widely debated, but no definitive explanation has yet been offered. IE origin seems likely, but the commonly supported connection with Ved. *ásu-* 'life', *ásura-* 'powerful', Av. *ahū-*, *ahura*, etc. (from Duchesne-Guillemin, *TPS* 1946: 81) is unconvincing, as is the inclusion of H. *hassu-* 'king', on semantic grounds. To derive *has-* from an unknown **hams-*, on the basis of Luw. *hamsa-* 'grandson', H. *hammasa-* 'child' (2.48), and further adduce ON *áss* < Gmc. **ansu-* (e.g. Polomé, *Lg.* 28 [1952]: 453) is overly speculative, while L. Brunner (*Die gemeinsamen Wurzeln des semitischen und indogermanischen Wortschatzes* [Bern, 1969], p. 187) exchanges semantic problems for phonetic ones in comparing instead Hebr. *'āśāh* 'beget; create', Arab. *'ašīra* 'family, tribe'. Discussion and refs. T 191-94.

4.73 — PREGNANT — The basic vocabulary includes *armai-* 'be pregnant', *armant-*, *armawant-* 'pregnant', *armahh-* 'impregnate', *-za armahh-* 'conceive, be pregnant', lit. 'make oneself pregnant'. The source is evidently *arma-* 'moon' (1.53), although the semantic details of the derivation (e.g. "make moon-bound, bring into menstrual orbit" in Puhvel, *Bi. Or.* 36 [1979]: 58 and P 157, with

refs.) are not precisely clear; none of the IE synonyms (*DSS* 283-84) has anything to do with the moon. The etymological sense of *arma-* 'feeble, weak, sick; pale' (4.84) may be involved as well, cf. ON *ekki heil* 'not well' and SCr. *trudna* 'tired out, weak' (OCS *trŭdŭ* 'toil, labor'), both also 'pregnant'.

sumrai-, iter. *sumreski-* 'be pregnant' is likely from *sū-* 'full' (13.21), via a verbal noun **sumar* (< **sū-wr-?*) 'fullness' (*Stamm* 298, n. 78). Cf. for meaning Gk. *κυέω* 'be pregnant' < **kēwA-* 'swell' (*IEW* 592), Fr. *pleine* 'full; pregnant', and (obs.) Engl. *full*.

4.732 — CONCEIVE — *-za armahh-* (4.73).

4.74 — LIVE — The Hittite verbal root is *huis-*, with derivs. *huisu-* 'live, raw', *huiswai-* 'live', part. *huiswant-* 'living, alive', *huiswatar* 'life', and *huisnu-*, *huisnuski-* 'make live, bring to life'. The simplest etymology (e.g. Benveniste, *Origines* 156, 155 n.) derives *huis-* from IE **A₁wes-* 'dwell, stay the night; be' (*IEW* 1170-71; Skt. *vāsati*, Goth *wisan*, OIr. *fo(a)id*, Arm. *goy*, Gk. *ἄεσα*, etc.).

What complicates the picture, however, is the existence of Luw. *huit-* 'live', with Luw. *huitumar* and H. *huitar*, *huitnant-* 'animal(s)'. As the Hitt. and Luw. verbs cannot be directly equated (Hitt. *-s-* = Luw. *-t-* so far only when initial and < **dy-*; e.g. *siwatt-* vs. *Tiyat-* [14.41], *sehur* vs. *dūr* [4.65]), another source must be found for the latter. The most viable suggestion along this line (Sturtevant, *Comp. Gr.*¹ 150) involves IE **A₁we-E₁-* 'breathe, blow' (*IEW* 81-84; cf. H. *huwant-* 'wind', 1.72) and comparison with Lat. *animal* < *anima* 'breath' (IE **an-* 'breathe'). Thus the Hitt. and Luw. forms with *huit-* might reflect an enlarged form like **A₁we-d-* (Gk. *ἔδανός* 'fragrant'), **A₁weE₁-d-* (OHG *wāzan* 'wehen, blasen'; Gk. *ἰαζω* 'breathe' < *αἰάδ-ω?*), **A₁we-dh-* (Hes. *ἔθμη* · *ἄτμός*), **A₁we-t-* (Hes. *ἄετμόν* · *το πνεῦμα*; *ἄτμός* 'steam, vapor'), or **A₁wE₁-t-* (*ἄρηστος* 'windy', Skt. *vāta-*, Av. *vātō* 'wind'), etc. (*IEW*

82-84). H. *huis-* could either be left separate (as did Hendriksen, *Untersuchungen* 26, 59), or better seen as a variant **A₁we(E₁)-s-* (cf. Skt. *vāsa-* ‘perfume’, Lith. *vėsti* ‘cool oneself off [by blowing]’). See T 264-68, 269-71.

4.75 — DIE — *ak(k)-* ‘die, be killed, be executed’, with part. *akkant-* ‘dead, dead person’, *akkatar-* ‘death’, is the common Hitt. word, and seems to be of IE provenance, yet numerous attempts have failed to find an acceptable etymology. The most commonly proposed etymon is Gk. *νέκῡς* ‘corpse’, Lat. *necare* ‘kill’ (e.g. Hrozný, *SH* 176), a comparison now generally rejected (P 22, T 8). Kronasser’s suggested cognate Toch. A *āk*, B *āke* ‘end’ (VLFH 222) has so far been neither refuted nor expanded upon.

Gk. *νέκῡς*, Avest. *nasu-* ‘corpse’, Lat. *nex* ‘violent death’, Skt. *naś-*, Av. *nas-* ‘perish, vanish’ find a better cognate in Hitt. *henkan-* ‘(fated) death, disease, plague’, IE **E₂enĕ-/E₂neĕ-* (P 22); see the discussion of its semantics vis-à-vis *akkatar-* in Puhvel, *Studia ... A. Pagliaro* 3.174-75 = *AI* 203-4. Further lexical kin can be OIr. *éc*, W. *angheu* ‘death’, OIr. *écen*, W. *anghen* ‘necessity’ (Puhvel, *Evidence* 88 = *AI* 134), Toch. *nāk-* ‘vanish, perish’, Gk. *ἀνάγκη* ‘necessity’, among others (*AI* 18), and possibly Gk. (Ϝ)άναξ (*AI* 6-26).

Another common Hitt. stem is *hark-*, *harkiya-* ‘perish’, iter. *harkiski-*, caus. *harkanu-*, *harkanuski-*, nouns *harga-* and *hargatar* ‘ruin, destruction’, and nasal-infix *harnink-*. The cognates include OIr. *orgaim* ‘I strike, kill’ (A. Cuny, *RHA* 2 [1934]: 205), Gaul. *orge* ‘occide’, Orgeto-rīx, and Arm. *harkanem* ‘strike, chop up’ (T 175-76), and the root is IE **A^w₁erg-* (H. *harnikzi* < **A^w₁r-n-ég-ti*, *harninkanzi* < **A^w₁r-n-g-ónti* [Benveniste, *Origines* 162]).

A form related to OIr. *marb*, Lat. *morī*, Skt. *mṛ-*, etc. survives in H. *mer-* ‘disappear, be lost’ (*HWb.* 141), which Gusmani (*Lessico* 21) considers the original meaning of IE **mer-*.

Luw. *u(wa)lant-* 'dead' was compared (via unattested **wala-*) with ON *valr*, OE *wæl* 'those slain in battle', as well as Toch. A *wäl* 'die', Lith. *velỹs* 'deceased', Hes. ἀλίβαντες · οἱ νεκροί by A. J. Van Windekens (KZ 77 [1961]: 86-88).

4.76 — KILL — H. *kuen-* matches Skt. *han-*, Av. *jan-* 'strike, kill', OIr. *gonim* 'I wound, kill', Gk. φόνος 'murder', θείνω, Lat. (of-)fendō, Arm. *ganem* 'strike' < IE **g^when-* (DSS 288, AI 265).

huek- 'slaughter (animals)' is in all likelihood from IE **H₁weyk-*, cognate with Goth. *weihan* 'fight', ON *vega* 'kill', Lat. *victima* 'sacrificial animal'. Lat. *vincō* 'gain victory' parallels the nasal-infixed H. *hunink-* 'damage, injure' (11.28). Goetze, *Lg.* 30 (1954): 403.

hulla-, (hul)huliya- 'strike (down)', see 9.21.

OIr. *orgaim*, Gaul. *orge*, *Orgeto-rīx*, Arm. *harkanem* (DSS 289) may go with H. *hark-* 'perish', 4.75.

4.77 — CORPSE — A definite word for 'corpse' is lacking, although one supposes *akkant-* 'the deceased' (4.75) was common enough. For Gk. νεκρός, νέκυς see H. *henkan-*, 4.75.

4.78 — BURY — *hariya-*, denom. from *hari(ya)-* 'valley; depression, hollow, cave' or the like (1.24, cf. EHS 492, T 172-73), cf. ON *heyga* < *haugr*, *grefta* < *grǫftr* 'grave' < *grafa* 'dig'.

4.79 — GRAVE — The name and nature of the common man's grave are not known (on social-class differences in burial practices see Gurney, *The Hittites* 166). In the fragmentary royal funeral ritual (KUB XXX 15), the directions are to place the bones of the cremated body in a É NA₄ 'stone-house' or mausoleum, within which is the É.ŠÀ 'inner (burial) chamber' (HWb. 270). Cf. also É *hastiyas* 'bone-chamber', see 4.16.

4.81 — STRONG — Adj. *in(n)arawant-*, noun *innarawatar*, with counterparts in Luwoid *annaru-*, *annari-* and Luwian *anarummi-*, *anarum(m)ahit-*, suggest H. **innaru-*, **innara(wa)-*, meaning fundamentally ‘physical or vital strength, life force, vigor’ (P 372). A very early comparison with Gk. ἀνήρ ‘man’ (Hrozný, *SH* 74) has been rehabilitated (P 372-73), the reconstruction **E₁énr*, **E₁nér* ‘vital strength’, etc. tying in such forms as Ved. *nar-*, Av. *nar-*, Alb. *njeri*, Arm. *ayr* ‘man’, Ved. *nṛtama-* ‘most forceful’, *sūnára-*, Gk. εὐήνωρ ‘rich in vital strength’, OIr. *nert* ‘strength’, Osc.-Umbr. *ner-* ‘man of rank’; cf. T 358-62. Van Windekens (*BHD ... Kerns* 343) rejects this approach, although it is not incompatible (at least phonetically) with his suggested cognate Gk. ἔναρα ‘armor of a slain enemy, booty’. A good alternative (Melchert, *Die Sprache* 29 [1983]: 17) reconstructs *innara-* < **en-A₂nr-o-* ‘having strength inside’, cf Gk. ἔνυδρος.

tarhui-, noun *tarhuilatar*, cf. perhaps the Luwian storm-god *Tarhunt-* and the Asianic Greek Ταρκονδημος. The H. verb *tarh-* ‘overcome’ points to **tér-A₁-*, with **tr-éA₁-* in Lat. *in-trāre*, Skt. *tārvaṭi* ‘conquer’ (Gusmani, *Lessico* 17, 53, 94), etc. The basic sense is ‘potency’, cf. *KUB XV 34 II 18-19 LÚ-ni LÚ-natar tarhuilatar SAL-ni SAL-natar annitalwātar* ‘to the man manliness and potency, to the woman femininity and motherhood’.

(*walli*)*walli(ya)-*, cf. 12.91, 16.79.

dassu-, *dassuwant-* ‘thick, stout, strong’, nouns *dassuwatar*, (from denom. *dassiya-*;) *dassiyatar*, *dassiyawar*, (from caus. *dasnu-*;) *dasnumar*. The basic form *dassu-* matches Gk. δασύς and Lat. *dēnsus* ‘thick, dense’ < **d̥s-u-* (Gusmani, *Lessico* 96-97 and n. 24).

hastali- ‘hero’ (UR.SAG-*li-*) is understood as a substantivized adj. **‘strong’* < *hastai-* ‘bone’ (4.16; *EHS* 212, T 203-4).

Luwoid and Luwian *muwattal(l)i-*, Hier. *muwatali-* ‘strong’ used of weapons (also PN ¹*Muwattali-*), plus Luw. abstract

muwaddalahit- 'strength', are perhaps from Luw. *muwa-* '(seminal) fluid' (HWb. 145-46). Source unknown, as is exact meaning (DLL 72).

warpalli- 'strong, powerful', perhaps in the sense of 'toughness', if related (via a **warpa-*) to Gk. ῥάμνος 'thorn-bush', ῥάβδος 'rod', Lat. *verber* 'switch', Lith. *viřbas* 'twig, switch', Russ. *véřba* 'willow-branch', IE **wer-b(h)-* (IEW 1153).

Skt. *ójas-*, Av. *aořah-*, Lat. *aug-*, Goth. *wahsjan*, etc. are reflected in H. *ukturi-* 'firm, lasting' (15.74).

4.82 — WEAK — *malisku-*, *milisku-* (caus. *maliskunu-*), possibly related to Skt. *mlāyati* 'weaken', Arm. *mełm* 'soft, limp', Gk. ἀμαλός, ἀμβλύς 'weak', Lat. *mulier* 'woman' (< **m̥l-yésī* 'the weaker one') etc. < **mel-* 'grind, wear down, soften up' (H. *malai-*, 5.56), with extended forms denoting 'weak, soft, tender': Skt. *mṛdú-*, Gk. βλαδύς, ἀμαλδόνω, Lat. *mollis*, OE *meltan*, OCS *mladŭ*, and very many others (IEW 716-19). Perhaps *malisku-* < **m̥l(E₁)-sk-*, cf. NHG *mulsch* 'soft'.

4.83 — WELL; HEALTH — **haddula-* 'healthy', *haddulatar* 'health', with corresponding Luw. *hattulahi-* and H. derivs. *haddulahh-* 'make healthy', *haddules-* 'become healthy', "ohne Etymologie" (T 229).

assuwant- (SIG₅-ant-) 'in good condition', from *assu-* 'good' (16.71).

4.84 — SICK; SICKNESS — There is a large group of words based on *arma(n)-*, *erma(n)-*, *irma(n)-* 'illness' (GIG), including *irmanant-* 'id.' and adjs. *armala-*, *irmala-*, *irmalant-*. The most plausible comparison (Carruthers, Lg. 9 [1933]: 159-60) is with Goth. *arms*, OE *earm* 'wretched', ON *armr* 'wretched' (vs. *heill* 'well'), IE **er-mo-*, **or-mo-* 'miserable, wretched'. Already Meillet (MSL 10

[1898]: 280) had adduced Arm. *ot-ormim* 'misereor', and further Hitt. cognates are *arma-* 'moon' (1.53) and *armant-* 'pregnant' (4.73). P 157-60; other views T 369-71.

Whereas *irma(n)-* refers to generalized illness, ailments or diseases of specific parts of the body are apparently denoted by *inan-* (Puhvel, *Bi. Or.* 37 [1980]: 204-5, P 366-67). Puhvel (*ibid.*) compares Ved. *énas-* 'sin, guilt', Skt. *īti-* 'plague, disease', Av. *aēnah-* 'violence, damage', *iti-* 'injury', reconstructing **A₂éy-(no-)* 'affliction', and further adducing Gk. αἰνός 'terrible', with Hes. ζῆτορός 'executioner' and Ved. *yātár-* 'avenger' < **A₂y-éA-*.

istarningai- 'ailment' < *istarni(n)k-* 'afflict' < *istark(iya)-* 'be sick, ail; afflict' may belong with Toch. A *sārk*, B *sark*, OIr. *serg*, OCS *sraga* 'illness', Lith. *siřgti* 'be ill' (LIEV 25; Ivanov, *Obščeeindoevropskaja* 65; P 477); on the variation *st-* vs. *s-* cf. *istanza(n)-* 'soul' : Lat. *sensus* (16.11) and P 471. An alternative (also reported in P 477) is Gk. στραγγάλη 'noose', Lat. *stringō* 'draw tight', OHG *strengi* 'stiff' < **stre-n-g-*, with further noninfixed **stér-g-*, **str-ég-* in OE *stearc* 'stiff', *strec* 'firm', although the semantics are less satisfactory. Further suggestions are reviewed in P 477 and T 434.

4.86 — CURE, HEAL — *haddulabh-* 'make healthy', from *haddula-*, 4.83.

saktai- 'care for, look after, cure' (HWb. 177) may be denom. from a **sag-to-* 'knowledge' < *sak-* 'know', 17.17 (cf. Kronasser, *Studies ... Whatmough* 128; right formation but doubtful root-connection [OIr. *socht* 'stupor'] in C. Watkins, *Kratylos* 19 [1974]: 69-71).

4.87 — PHYSICIAN — ^{LÚ}AZU, also 'magician'.

4.88 — MEDICINE — *wassi-* ‘medicine, salve’ (HWb. 248) possibly of a particular kind (EHS 204).

4.91 — TIRED — *tariyant-*, part. of *tariya-* < *tarra-* ‘become tired’. *tarra-* might be cognate with ON *þreyttr* ‘exhausted’ < *þreyta* < *þraut* ‘exertion’, OCS *trudŭ* ‘toil, hardship’, *truditi* ‘become tired’, Lat. *trūdere* ‘thrust, press’, all from **trewd-*, with Hitt. *tarra-*, *tariya-* (and perh. Gk. τείρω ‘rub’) < **ter-yo-*, **tor-yo-*; cf. DSS 313).

4.94 — LAME — Various approaches have been taken to explaining *ikniyant-*. A derivation from *egdu-* ‘leg’ (Oettinger, Eide 22) is superficially attractive, but presents fundamental problems both phonetically and semantically, and Benveniste’s comparison (BSL 35 [1934]: 102-3) with Gk. ὄκνος ‘shrinking, hesitation’ needs more support.

A different tack involves a connection with H. *egai-*. Carruba (in Neu, *Interpretation* 68, n. 1) interpreted the latter as ‘zer-springen’ and offered *dudduwarant-* ‘lame’ < *duwarnai-* ‘break’ as a parallel. The collocation, rejected by Tischler (T 350), is instead improved upon by Puhvel (P 354), who glosses *egai-* ‘freeze, become paralyzed’ < *eka-* ‘cold, ice’ (P 257), thus *ikniyant-* ‘lame, paralytic, crippled’.

For *dudduwarant-*, the connection with *duwarnai-* (Carruba, loc. cit.) remains plausible (cf. Goth. *halts* : Gk. κλάω ‘break’), although its further etymology is disputable.

4.95 — DEAF — Besides sumerographic LÚ GEŠTU NU.GÁL ‘man who has no ears’, Hitt. has **duddumi-* (in adv. *duddumili-*), *duddumiyant-* and further verbal derivs. *duddumes-*, *duddumiyahh-*. **duddumi-* has been connected with the interj. (orig. adv.?) *duddu-* ‘halt! be still!’ (HWb. 230), perhaps as an adjectivized participle (EHS 219). More cogently, Petersen (AO 9 [1937]: 211-12)

reconstructed **dum(m)-* < IE **dhu(m)-bh-* or **dhu-m-*, comparing Goth. *dumbs* 'dumb', OHG *tumb* 'deaf, stupid', Gk. τυφλός 'blind', OIr. *dub* 'black', ON *doufr*, OHG *toup* 'deaf'. See also H. Ehelolf, *KlF.* 1 (1927): 399-400.

4.96 — DUMB — *karussiyant-*, from *karussiya-* 'be silent', has been analyzed (Čop variously, e.g. *Indogermanica minora* 50) as IE **g^wor-us-yo-*, from pf. part. of a root **g^wer-* seen in Arm. *korusanem* 'spoil', Lith. *gūrti* 'cease, abate' (of the wind), Toch. A *kur-* 'grow weary, get old' (T 529). Further related forms include adv. *karussiyantili-* 'silently; secretly', vbl. noun *karussiyatvar*, caus. *karussiyanu-*.

4.97 — BLIND — *dasuwant-* (with *dasuwahh-* 'to blind') is etymologically obscure; textual discussion by Ehelolf, *KlF.* 1 (1927): 393-98.

Also LÚ IGI.NU.GÁL 'man with no eyes'.

4.98 — DRUNK — *nink-* 'get drunk' (caus. *ninganu-*) (*HWb.* 151) means basically 'drink one's fill' (5.13). An infixed deriv. *nini(n)k-* means 'to levy troops'.

wiyantai- 'get someone drunk' < *wiyana-* 'wine' (5.92); the adj. might have been participial **wiyanant-* 'drunken'.

Lat. *ēbrius* can be explained as a cognate of H. *eku-*, *aku-* 'drink', abstracted from a neg. **sē-eg^whri-o-* 'without drink', a variant of which also produced *sōbrius*; similarly Gk. νήφω 'be sober' < **ne-eg^wh-* (P 267-68 and refs.).

4.99 — NAKED — The *e*-grade corresponding to IE **nog^w-* (Lat. *nūdus*, OIr. *nocht*, Goth. *naqaps*, Lith. *nuogas*, OCS *nagŭ*, Skt. *nagná-*, Av. *maγna-*, Gk. γυμνός) is seen in H. *nekumant-* (variant *nekmunt-*), dissimilated from **neg^w-no-nt-* (F. O. Lindeman, *RHA* 23

[1965]: 32; W. Cowgill, in *Evidence* 156; *AI* 264). H. *nekuz* 'evening', *nekuzi* 'evening falls' belong not here (as in *DSS* 325) but with IE **nok^{ws}* 'night' (14.42).

FOOD AND DRINK; COOKING AND UTENSILS

5.11 — EAT — IE **ed-* lives on in H. *ed-*, *ad-*, Luw. and Pal. *ad-*, Hier. *ad-*, *ar-*, with iter. *azziki-* (P 315-20, T 91-92, 117-18).

karap-, *karip-* ‘devour, fressen’ is best read /grab-/ and linked with Hes. βράπτειν · ἐσθίειν, Lith. *gróbas* ‘gut’ < IE **g^{wr}-ébh-*, and further cognates OIr. *brágae* ‘neck’, NE *craw* (**g^{wr}-ógh-*), Gk. -βόρος ‘devouring’, Skt. *giráti* ‘devour’, Lith. *gérti* ‘drink’ (W. Belardi, *Ricerche Linguistiche* 1 [1950]: 122-23, 144; Čop, *Ling.* 5 [1964]: 42; Puhvel, *AI* 263). Semantically less satisfactory is a connection with Skt. *grabh-*, NE *grab*, OCS *grabiti* ‘rob’ (Sturtevant, *Lg.* 8 [1932]: 130; E. Risch, *Flexion und Wortbildung* 253; T 496-98).

ispai-, *ispiya-* ‘eat one’s fill’ reflects **spoE₁-y-(e-)* from IE **speE₁-(y-)* ‘be full, be fat, prosper’, e.g. Skt. *sphāyate* ‘grows fat’, OE *spōwan* ‘thrive’, *spēd* ‘prosperity, success’, OCS *spěti* ‘be successful’, Lat. *spēs* ‘hope’, *pro-sperus* ‘favorable’ (*IEW* 983, P 431, T 408-9).

Pal. *mūsi* is glossed ‘he eats his fill’ by Puhvel (*AI* 147), but no etymology is given.

5.12 — FOOD — *etri-* is ‘food’ and ‘meal’, both for man and animals, and is formed with the suffix *-ri-* (*EHS* 225) to *ed-* ‘eat’ (5.11). Denom. *edriya-*, iter. *edriski-* serves for ‘feed’ (T 119, P 319).

5.13 — DRINK — The common verb *eku-/aku-* is often connected with Lat. *aqua*, OHG *aha* ‘water’, or with Toch. AB *yok-* ‘drink’ (cf. T 103-4). Phonetically preferable is the comparison

(Juret, *RHA* 2 [1934]: 251-52) with Lat. *ēbrius* 'having had enough to drink, drunk'; see 4.98.

nink- 'drink one's fill' can be compared with Skt. *násati*, Lat. *nanciscor* 'attain', Lith. *nešù*, Gk. aor. ἤνεγκον 'carried', Goth. *ganah* 'it is enough'; cf. *LIEV* 25.

sarāp-, *sarēp-* seems to match Gk. ῥοφέω, Lat. *sorbeō* 'drink, sip', **srbh-éye-* (cf. Oettinger, *Stammb.* 426; M. Poetto, *JIES* 2 [1974]: 435-37).

5.14 — HUNGER — *kast-* 'hunger', *kisduwant-* 'hungry', *kistant-* 'famine' are generally thought related to Toch. A *kast*, B *kest* 'hunger', although further connections and precise reconstruction are debated. The likely inclusion of H. *kist-* 'be extinguished' leads to comparison with Skt. *jásate* 'be exhausted', Toch. *käs-* 'quench, be quenched', Lith. *gèsti*, OCS *u-gasiti* 'be extinguished', Gk. σβέννυμι 'quench', Goth. *qistjan* 'ruin', and reconstruction **g^wes-* 'starve' or 'die out', like NHG *sterben* vs. NE *starve* (cf. Sturtevant, *Comp. Gr.*¹ 118, *Comp. Gr.*² 58; T 536-38). A. R. Bomhard (*RHA* 31 [1973]: 76) separated the Gk. (and presumably Germanic) forms and posited IE **ges-* for the rest (rejecting **g^w-*, as also Gusmani, *Lessico* 59).

5.15 — THIRST — *kanint-* (*kaninant-* 'thirsty') is analyzed as an *-nt-* suffixed Luwoid *kani-* in T 481, with the supposed verbal root **kan-* unattested and obscure (*EHS* 302-3, n. 2). More detailed examination (P s.v.) yields rather a stem **kanen-* (< **kneE₁-n-*) + suffix *-t-* (*EHS* 254-55), leading to comparison with Hom. πολυκαγκής δίψα ' parching thirst' and Photios κέγκει · πεινᾶ, Goth. *hūhrus* 'hunger', Lith. *keñkras* 'emaciated' < **kṛk-(r-)*, the original meaning being 'hunger and thirst'; cf. H. *tangarant-* and Arm. *sin* 'empty, not having eaten or drunk'.

5.16 — SUCK — ‘Suckle’ is *tittiya-*, transparently denominative from *tita-* ‘breast’ (4.41), with Luw. part. *titaimmi-* ‘suckled’.

5.17 — MIX — *immiya-* appears frequently in the phrases *anda immiya-*, *menahhanda immiya-*, paralleling Gk. ἐμμίγνυμι and Lat. *immisceō*. The root is probably IE **mey-* (Skt. *máyate* ‘exchange’, extended in μείγνυμι, *misceō*, OHG *miskan*, OCS *měšiti*, Lith. *miěšti* ‘mix’; IEW 714-15), and the prefix *im-* a survival of IE **en-*, vs. regular Hitt. *anda* (Sturtevant, *Comp. Gr.*¹ 133, 224; *Comp. Gr.*² 117; T 356-57; P 361-65); cf. also *innara-* (4.81) and *istarna-* ‘between; within’ (< **ens-ter* : Lat. *inter*?; P 478-83).

hurtalliya- < *hurtalli-* ‘mixture’ has been compared (by Neumann, *Kratylos* 8 [1963]: 41) with Skt. *varṭ-*, Lat. *vertere* ‘turn’ < IE **wer-t-* (thus **H₁w[e]r-t-*; cf. IEW 1156-58); cf. also Gk. ῥατάνη ‘stirring spoon’, Hes. βρατάναν · τορύνην?

5.21 — COOK — ‘To cook’ a meal could be expressed by *zanu-*, a caus. transitive to (intrans.) *zeyā-*. The meaning may be properly ‘prepare’, if related to nasal pres. *zinna-* ‘finish’ < **si-ne-E₁-* (: Lat. *sinere* ‘leave off’ < ‘let alone’ [14.28]), root **seyE₁-* (Oettinger, *Stamm.* 151-52); there are semantic parallels in Sp. *guisar* ‘prepare (food), cook’, Rum. *gati* ‘prepare; cook’ (< *gata* ‘ready’ < Slav. [SCr.] *gotovŭ*), OIr. *air-fogni* ‘prepares (food)’, Nir. *fuinim* ‘I cook’ < **fo-* + *gníu* ‘I make’ (DSS 337).

marra(i)-, *marriya-* ‘melt, dissolve; cook until tender’ (CHD 3.180-81) reflects an IE **merH₂-*, **mrH₂-óye-*, and has been compared with Skt. *mṛṇāti* ‘crush, pound’, Gk. μαράινω ‘quench’, psv. ‘die, waste away, wither’, and ON *merja* ‘crush, bruise’ (IEW 736; cf. W. Petersen, AO 9 [1937]: 207; Oettinger, *Stamm.* 281).

5.22 — BOIL — *zanu-* (5.21) could have referred particularly to ‘boiling’; cf. *Kbo* VI 34 II 22 *n-at wetenit imiyanzi n-at zanuanzi* ‘they mix it with water and boil it’.

5.23 — Roast, Fry — *enu-*, *inu-* is causative from *ā-*, *ay-*, *e-* ‘be hot’ (15.85), P 11.

Either here or under ‘bake’ (5.24) belongs *sanhuwai-*, although H. Eichner’s comparison (apud Oettinger, *Stamm* 367) with Gk. ἀνύω would call for a meaning ‘cook, prepare’, like *zeya-*, *zanu-* (5.21).

5.25 — OVEN — No Hitt. reading is known for IM.ŠU.(NÍG.)NIGÍN.NA (Akk. *tinnūru*). For UDUN (Akk. *utūnu*) Hoffner (*Alimenta* 138) tentatively suggests *isliman-*.

The group of Gk. ἰπνός, Goth. *auhns*, OE *ofen*, Skt. *ukhā-*, Lat. *aulla* probably also includes H. *happina-* ‘flame’ (1.82), although details are uncertain.

5.26–5.37 — Words for specific ‘vessels’ (usually with DUG determinative) are quite numerous (see e.g. *EHGL* 93–95), appearing plentifully in the detailed instructions of ritual texts. As the exact shape and nature of the implement denoted by a given term is most often impossible to determine, its inclusion under one category or another is to a large extent arbitrary. A small selection of the more reliably identified ones is given here, excluding those expressed solely by sumero- or akkadograms.

5.26 — POT — *hupuwai-* is of Hurrian origin, possibly from *hupuwa-* (T 299). The initial syllable *hup-* is common in vessel-names, e.g. *huppar-* ‘bowl’ (cf. Gk. κύπελλον ‘goblet’, Pisani, *Paideia* 19 [1964]: 282), *huprush-* ‘censer’ (cf. Gk. ὀβυζα, Lat. *obrussa* ‘assay’, *HIE* 126–31), and of unknown meaning *huppi-*,

huphuphi-, *hupurni-*, *hupulli-*, and has likely sources in both Hurrian and Sumerian (T 292).

5.27 — KETTLE — *palhi-* is a nominalized adj., *palhi-* ‘wide’ (12.61) (HWb. 156).

5.31 — DISH — ^{GI}*pattar* is ‘dish, tray, basket, hamper’, and even ‘ice-bucket’, and seems once to mean ‘colander’ or the like. It was made of reeds and was used to hold bread. The word is cognate with Lycian Gk. *πατάρα* and apparently Lat. *patera* ‘saucer’, and Gk. *πατάνη* ‘flat dish’ (Lat. *patina*); Puhvel, AI 353; *Hethitisch und Indogermanisch* 210 = AI 357.

5.32 — PLATE — The term *piran pedunas* (with variants) was interpreted (by Puhvel, *Serta Indogermanica* 317-18) as ‘proffering platter’, from the gen. of a vbl. noun from *peda-* ‘bring, carry’.

5.33 — BOWL — *huppar-* is one of the many areal culture-terms with *hup-*, cf. 5.26 and T 291-93.

kappi- (^{DUG}PUR.SÍ.TUM) is probably from Akk. *kappu* ‘bowl, basin’ (Berman, *Stem Formation* 16).

aganni- ‘bowl’ or ‘cup’ is from Hurr. *aganni-*, and has cognates in Akk. *agan(n)u*, Ugar. *agn*, Hebr. *aggān*, Egypt. *ʿikn* (P 24).

5.34 — PITCHER, JUG — *akutalla-* (also *akugalla-*) is probably from *aku-* ‘drink’ (5.13) + **-dhlom* (cf. Lat. *pōculum* ‘drinking-cup’); cf. Puhvel, JAOS 97 (1977): 598; P 25.

lahanni- ‘bottle’ or ‘pitcher’ matches Akk. *lahannu* and Sum. ^{DUG}LA.HA.AN, a culture-word found in Hurrian ritual contexts (CHD 3.6).

lelhündai- and *lelhundalli-* are literally ‘pourers’, formed reduplicatively from *lahhuwai-*, *lāh-* ‘pour’ (9.35); CHD 3.60.

ispanduw-, *ispanduzzi-*, *ispanduzziyar-* are 'libation-vessels', from *sipant-*, *ispant-* 'libate, pour' (9.35).

5.35 — CUP — *assuzeri-* may be *assu-* 'good' + *zeri-* 'cup' (P 223-24); the second element compared unconvincingly with Lith. *tveriu* 'hold, enclose', Gk. *σορός* 'urn' by V. Georgiev, *KZ* 92 (1978): 95.

aganni- 'cup' or 'bowl', 5.33.

5.37 — SPOON — *hanessa-*, secondarily formed from *hanessar*, is deverbative from *han(iya)-* 'draw water', thus meaning 'ladle' or the like. The etymology connects Gk. *ἄντλον* 'bilgewater', *ἄντλέω* 'bail' (cf. for meaning Lat. *sentīna* 'bilge' vs. Lith. *sėmti* 'draw water') and probably also Arm. *hanem* 'draw out, remove'; cf. Benveniste, *BSL* 50 (1954): 39; G. Kapancjan, *Chetto-Armeniaca* 96: T 144-45; P. s.v.

5.41 — MEAL — Besides *etri-* (5.12) from *ed-* 'eat', Hitt. also uses *adatar* '(an) eating', the vbl. noun from the same root (P 317-18); cf. NHG *Essen*.

5.51 — BREAD — Words referring to 'bread' form the largest category of Hittite vocabulary. The basic NINDA occurs both on its own and as a determinative prefixed to dozens of specific terms for individual kinds of bread varying in size, shape, composition, color, and function, and expressed in hittitographic as well as ideographic forms. Lists of these (to be used with caution) can be found in *EHGl.* 25-29 and *HDW* 128-29, with discussions in the dictionaries and especially Hoffner, *Alimenta* 129-220.

A suggested Luwian and (Luwoid) Hitt. reading for NINDA is *zūwa-* 'bread; meal' (Otten, *Kumarbi* 111; *HWb.* 263; *DLL* 116), while Pal. may be *wulasina-*, from Hattic *wulasne-* (Laroche, *RHA* 13 [1955]: 74-78).

5.52 — CAKE — Many of the Hitt. NINDA-terms are apposite here, to the extent that ‘cake’ is understood as a specialized kind of bread. Examples might be NINDA SIG ‘thin, flat bread’, NINDA KU₇ ‘sweet bread’ (*mitgaimmi-*), NINDA.(KUR₄.RA) LABKU ‘moist loaf’, NINDA.KUR₄.RA TUR ‘little loaf’, *am(m)iyantessar* ‘miniature bread’ (P 47), *kaggari-* ‘round bread’ (T 462), etc.

5.53 — DOUGH — *is(sa)na-*, *ēssana-* is from IE **yes-* ‘ferment’ (IEW 506), reflecting **yes-(o)no-* and cognate with OHG *jesan* ‘ferment’ (P 381-85).

The name of ‘yeast, ferment(ation)’, so vitally important in the making of bread, cheese, and wine from the earliest times, is *harnammar*. This verbal noun and the Luw. (orig. part.) *harnant-* ‘id.’ point to a verb *harna-*, of unknown affinity (T 178]. Connection with IE **er-*, **or-* ‘rise’ (Knobloch, *Kratylos* 4 [1959]: 35) is impossible: the latter is H. *ar-* (10.21, 10.22, 10.55).

5.54 — KNEAD — *immiya-* ‘mix’ is generally used, 5.17.

For an alternative term *salk-* ‘knead’, a connection with IE **selǵ-* ‘let loose, gush out’ (IEW 900-1) is doubtful (*Stamm* 216).

harnamniya- is denom. from *harnammar* ‘yeast, ferment’ (5.53).

5.55 — MEAL, FLOUR — ZÍD.DA (Akk. *qēmu*).

5.56 — GRIND — The two main terms for grinding appear in the frequent phrase *harra- malla-* ‘pound (and) grind’. *malla-* is the inherited IE **mel-* (Goth. *malan*, Lat. *molere*, OIr. *melim*, OCS *mlěti*, Lith. *málti*), while *harra-* may be a Near Eastern culture-word referring to crushing or pounding, with a likely source in Akk. *harāru* ‘grind’ (Puhvel, *Bi. Or.* 36 [1979]: 57). Alternatively, nuances of ‘ruin, spoil, destroy’ support a comparison with OCS *oriti*

‘destroy’, Skt. *nír-ṛti-* ‘dissolution’, *árma-* ‘ruins’ < IE **E₂er(-E₁)-*, **E₂orE₁-* (V. Machek, AO 17.2 [1949]: 132-33; P s.v.).

Another expression of the crushing technique appears in KUB XXII 70 Rs. 55-56 *namma-at* ^{NA₄}*kunkunuzzit* GUL-*anzi* ‘and they pound it with a *k*-stone’, where GUL = *walh-* ‘pound’ (9.21; cf. EHGl. 47, n. 74).

Luw. *pasihaiyi-*, H. *pasihai-* ‘crush’, HWb. 164-65.

5.57 — MILL — The ‘millstone’ or ‘grindstone’ is ^{NA₄}ARÀ, or Hitt. ^{NA₄}*hararazi-*, from the same Akk. source as H. *harra-* ‘crush, pound’ (5.56). The ‘millhouse’ is simply É ^{NA₄}ARÀ. On the use of ^{NA₄}*kunkunuzzi-* as a grinding-stone see EHGl. 47, n. 74.

5.61 — MEAT — ^{UZU}UTÚL ‘food’, with ‘flesh’ determinative.

5.612 — BUTCHER — Apparently the cook, ^{LÚ}MUHALDIM, also handled this duty.

5.62 — BEEF — *suppa* ... ŠA GUD.MAH.

5.64 — SOUP, BROTH — The normal ideographic expression is TU₇ (Akk. *ummaru*). A Hitt. reading *parsur* (F. Sommer, HAB 173, n. 2; HWb. 164, 300) is rejected by Hoffner (*Alimenta* 102-3).

5.65 — VEGETABLES — (UTÚL) SAR ‘(edible) greens’.

Gk. *λάχανα* might be comparable with Hitt. *lakkarwa(n)-*, an unknown kind of plant (CHD 3.19); cf. NGk. *λάχανο* ‘cabbage’. *gangati*-(^{SAR}), see 8.53.

5.66 — BEAN — GÚ.GAL ‘bean’, GÚ.GAL.GAL ‘large bean’. A tentative Hitt. reading **sumessar* is deduced from the gen. *sumesnas*

(EHGl. 21, HDW 78). Although morphological details are uncertain (cf. EHS 284), the probable connection is with *sū-* 'full', *suwa-* 'swell' (13.21); cf. *sumrai-* 'be pregnant', and for meaning Gk. κύαμος 'bean' : κύέω 'be pregnant' < **kēwA-* 'swell', ON *baun*, OE *bēan* < **bhew-* 'swell up', and Lith. *pupà* 'bean' < **pew-*.

5.67 — PEA — GÚ.TUR (Akk. *kakku* or *pulīlu*), EHGl. 93.

'Chickpeas' (not strictly speaking a pea) are referred to as GÚ.GAL (5.66).

5.68 — ONION — *suppiwasha-* is apparently a loan-translation of the Sum. SUM.SIKIL^{SAR} 'pure-leek' (HWb. 199), referring to onion or garlic. GA.RAŠ^{SAR} may mean some kind of onion or leekish plant (EHGl. 92); cf. *Alimenta* 107-9.

5.69 — CABBAGE — While no term for this common vegetable has been definitely identified, it is tempting to compare *kalwis(si)na*-(^{SAR}) with Lat. *caulis*, Gk. καυλός, ON *kál*, NE *kale*, etc.

5.70 — POTATO — As the potato was introduced to Europeans only around the sixteenth century AD (*NED* s.v.), it was of course unknown to the Hittites.

5.71 — FRUIT — *sesa(na)-* means 'fruit' (*CHD* 3.17), etym. unknown. Ideographic alternatives are ^{GIŠ}GURUN, *INBU*.

5.72 — APPLE — ^{GIŠ}HAŠHUR (Akk. *hashūru*). The Hitt. reading may be *sam(a)luwa(nt)-* (cf. Hatt. *ša-a-wa^a-at?*); discussion in Laroche, *OLZ* 66 (1971): 149; Hoffner, *Alimenta* 113-15 with refs.

5.73 — PEAR — ^{GIŠ}*karpina-*, tentatively glossed 'Birnbäum' by Hrozný (*Code Hittite provenant de l'Asie Mineure* I [Paris, 1922],

§ 101), has been compared with Russ. *grabína* ‘hornbeam’ (G. Neumann, KZ 77 [1961]: 78, n. 4; V. V. Ševoroškin, *Etimologija* 1964: 157).

5.75 — FIG — ^{GIŠ}PÈŠ. Something related to Gk. σῦκον may appear in the second element of H. ^{GIŠ}has(s)ik-, *marsiqqā*-, and *sigga-sigga*-, these three possibly referring to varieties of figs (*EHGl.* 43 and n. 58; T 200-1). In particular, *marsiqqā*- can be compared to Lat. *mariscus* ‘large fig’ (Neumann, KZ 84 [1970]: 141).

5.76 — GRAPE — ^{GIŠ}GEŠTIN is the normal term for ‘vine’ and ‘grape’, with ^{GIŠ}GEŠTIN HÁD.DU.A ‘dried grape’ = ‘raisin’. Hittite terms specifically denoting ‘grapevine’ are ^{GIŠ/Ú}ippi(y)a- (autochthonous, cf. Gk. ἄμπελος) and ^{GIŠ}mahla- (P 378-79; Pedersen, *Hitt.* 187), while the fruit itself is expressed by *muri*- ‘(bunch of) grape(s)’ (*EHS* 197, 204).

5.77 — NUT — A generic term is unknown. ^{GIŠ}LAM.GAL is ‘pistachio’ (*HWb.* 282), Akk. *buṭuttu*.

5.78 — OLIVE — Always ^{GIŠ}SERDU (*ZERTUM*).

5.79 — OIL — Ì, Ì.GIŠ, with Ì ^{GIŠ}ZERTUM ‘olive oil’.

5.81 — SALT — MUN, Akk. *ṭābtu*.

A word for ‘sodium carbonate’, *nitri*-, is an areal culture-word matching e.g. Gk. νίτρον (Puhvel, *AJPh.* 104 [1983]: 217).

5.83 — VINEGAR — GEŠTIN EMŠA ‘sour wine’.

5.84 — HONEY — Hittite *milit* joins Goth. *miliþ*, OIr. *mil*, Alb. *mjal*, etc. in reflecting faithfully IE **mélit(om)*- (*IEW* 723-24).

5.85 — SUGAR — Probably unknown to second-millennium Anatolia.

5.86 — MILK (sb.) — The general designation GA occurs with terms for several kinds of milk, including GA.KU₇ ‘sweet milk’, GA *EMŠÚ* ‘sour milk’, and GA *DANNU* ‘thick milk’. In one passage *pankur*, normally ‘family group, tribe, kin’ or the like, appears to have the meaning ‘milk’. A connection via the notion ‘milk-brothers’ (Güterbock, *RHA* 22 [1964]: 102-3) lies on the edge of probability.

Gk. γάλας, γαλα(κτ-), Lat. *lac(t)-* may well be related to H. *gala(n)k-* ‘soothe; satiate’, *galaktar* ‘nutriment’; further connections with Skt. *jālāṣa-* ‘soothing’ and ON *klǫkk*, Lith. *glėžnas* ‘soft, tender’, Bulg. *glezil* ‘coddle’ are also possible (cf. T 463; *Stamm* 149; P s.v.).

5.88 — CHEESE — GA.KIN.AG (*Alimenta* 121-22).

5.89 — BUTTER — Ĭ.NUN.

5.91 — MEAD — This drink was apparently not used in Anatolia, where wine was preferentially made from grapes. Occasionally ‘honeyed wine’, like the Gk. μελιθεῖα οἶνον, was consumed, to judge from the expression GEŠTIN.LÀL (*EHG*l. 21-22, n. 7).

5.92 — WINE — The Hitt. reading of GEŠTIN is *wiyana-* (Hier. *wayana-*), expectably representing the Mediterranean areal term seen in both IE (Gk. οἶνος, Lat. *vinum*, Arm. *gini*, Alb. *venë*) and Semitic (Arab. *wain*, Hebr. *yayin*) (Gusmani, *Lessico* 32 and n. 48).

5.93 — BEER — *sessar* (KAŠ), related to Gk. ζῦθος (> Lat. *zythum*)?? On Hittite beer-production see A. Goetze, *Kleinasien* 119, n. 1-2.

CLOTHING; PERSONAL ADORNMENT AND CARE

6.11 — CLOTHE, DRESS — Inherited IE **wes-* appears as Hitt. *wes(s)-*, Luw. *was-* ‘dress, wear, be clothed’, with middle inflection, while *was(s)(iya)-* (< **wos-*), usually active, may express the transitive sense ‘clothe’. Conjugational details of these verbs are treated in depth in Oettinger, *Stamm.* 299-306.

sai- is ‘put on’ (particularly headwear), from the sense of ‘press (on)’ (9.342), and the same meaning is expressed literally in *anda zikki-*, from the iterative *zikki-* to *dai-*, *tiya-* ‘place’; cf. NHG *anziehen*.

ishuzziya- ‘gird’ (P 401) is denominative from *ishuz(z)i-* ‘belt, girdle’ (6.57) < *ishai-* ‘bind’ (9.16). *sarkuwai-* means ‘to put on shoes’, and must be related to *sarku-* ‘high’ (12.31); cf. Ehelolf in Sommer, *HAB* 86, and G. Neumann (*sarku-* ‘hoher Schuh’) apud Oettinger, *Stamm.* 335, n. 159).

6.12 — CLOTHING — Besides the ideogram TÚG, general terms are derived from *wes(s)-*, *was(s)-* (6.11), namely the concretized neuter abstract *wassuwar* and animate *was(sa)pa-* (Goetze, *Corolla Linguistica* 50-51; *EHS* 184), with *sarriwaspa-* possibly a calque on Hurr. *sarri-* ‘king’ (*EHS* 125).

aniyatta, a neut. pl. ‘(ceremonial) habit, vestments’, is a vbl. noun from *an(n)iya-* ‘work’ (P 69-70).

6.13 — TAILOR — LÚ TÚG ‘cloth-man’ may be ‘tailor’ or ‘fuller’.

6.21 — CLOTH — Curiously, no general term for ‘cloth’ or ‘fabric’ is known, but its presence is signalled by TÚG. ‘A cloth’ in the sense ‘towel’ is marked with GAD, with a few varieties such as ^{GAD}*mutalliyassa*[, ^{GAD}*sawalga*-, ^{GAD}*kazzarnul*-.

6.22 — WOOL — *hulana*- (SÍG), Luw. *i*-stem SÍG-*lani*-, reflects the **H₁wlH₂-no-(A₂-)* seen in practically every branch of Indo-European (DSS 400, IEW 1139, T 278-79), and is also a likely source for Akk. *hullānu* ‘(woollen or linen) blanket’ (EHG. 39-40, n. 53). A synonym *hulīya*-, *hulaya*- is from an alternatively suffixed **H₁wlH₂-y*- (P s.v.).

The river-name ^{īD}*Hulana*- (^{īD}SÍG-*na*-), together with ^{GIŠ}*hulali*- ‘distaff’ and the verb *hulaliya*- ‘wind around’, points to a verbal root **hul(a)*- < IE **H₁wel(-H₂)*- ‘wind, twist’ (IEW 1139-45), underlying the IE words for ‘wool’ (twisted, spun [material]) as well as those for ‘turn, wrap, roll’, etc. (10.12-10.15, DSS 665). Cf. Laroche, AO 17.2 (1949): 13, n. 18; Friedrich, KZ 77 (1961): 257.

^{SÍG}*es(sa)ri*- ‘fleece’ is understandable as ‘wool-shape, wool-skin’, derived from *es*- ‘be’, with semantics as in *tuekka*- ‘body’ vs. Skt. *tvac*- ‘skin’, OPruss. *kērmens* vs. Skt. *cārman*-, with the same respective meanings, or Gk. *χρῶς* with both (P 313-15).

^{KUŠ}*kursa*- ‘fleece; skin, hide’, 4.12.

^{SÍG}*huttuli*-, a ‘tuft’ or ‘flock’ of wool, appears derived from *huit(tiya)*- ‘pull, draw’ (9.33; Čop, *Ling.* 8 [1968]: 55).

Particular kinds of wool or woollen objects may be denoted by *ali*- (Hurrian; cf. Gk. *ἀλινδέω*?, P 34), *kunzi*- (T 637-38), *marihsi*-, *zum(m)inali*-.

6.23 — LINEN; FLAX — ‘Leintuch’ has been guessed as the meaning of *kattanipu*- (T 544), perhaps on the basis of a suggested connection (V. Pisani, *Paideia* 8 [1953]: 308) with late Babyl. *kitinnū*,

Phoen. *ktn* 'linens', Gk. χιτών, Myc. *ki-to-*. Besides the unclear formation (H. *-pu-* < ?), the reading may be wrong as well: ^{GAD}*tanipu-* is also possible (T 544).

6.29 — LEATHER — KUŠ.

6.31 — SPIN — The Hitt. expression is probably (*appa parza*) *malkiya-* (CHD 3.131-32), but the etymology is unclear. A comparison with Skt. *mārṣti* 'wipes', Lat. *mulgere* 'milk' (*Stamm* 346) is semantically improbable.

An alternative phrase is *hulanan kapinan iya-* 'make wool into thread'.

The previously unexplained Gk. κλώθω may be compared with H. *kaluti-* 'line', see 12.84.

6.32 — SPINDLE — The origin of ^{GIŠ}*huesa-* remains a subject of debate, the most likely derivation so far being that (by Kronasser, in *Studi ... V. Pisani* 2, p. 611) from IE **H₁wes-* 'turn, wind' (IEW 1173 [7. *ues-*]), comparing Skt. *vedā-* 'bunch of Kusa-grass' (< **vedā-* < **H₁wos-do-*), *uṣṇīṣa-* 'turban', ON *vasask* 'be wrapped, mixed up in', NHG dial. *wasen*, ME *wase* 'faggot' (the Engl. form also meant 'pad on the head for carrying burdens'). Other suggestions T 268-69.

The spindle is partnered with ^{GIŠ}*hulali-* 'distaff', a further deriv. from *hul-* 'twist'.

6.33 — WEAVE — Hoffner's idea (EHG 98, not mentioned in CHD) that *malkiya-* serves for 'weave' as well as 'spin' is supported by Lith. *pinti* 'plait' : Goth. *spinnan*.

IE **(H)webh-* might survive in H. ^{GAD}*hupra-* (Luw. *huppara/i-*), the name of some woven material or article of clothing (T 293 and

refs.), as well as *hupiki-* ‘veil’ (T 295) and others, cf. Kronasser, *Beiträge ... Pokorný* 46-47.

A Hittite counterpart of Lat. *texō* may be found in *takk(e)s-* ‘join together; agree to (a treaty); undertake (a conspiracy), weave (a plot)’, from IE **teḱ-s-* ‘build, put together; weave’ (> Lith. *tašyti*, OCS *tesati* ‘hew’), with the same stem seen in Gik. τέχνη ‘art, skill, craft’, etc. < **teḱs-nā*. A reduplicated stem **te-tḱ-* yields verbs for ‘cut, hew, fashion’ and related nouns; e.g. Skt. *takṣ-*, Av. *taš-*; Gk. τέκτων, Skt. *tákṣan* ‘carpenter’, Av. *tašan-* ‘creator’. Further Hitt. derivs. are *taksul* ‘agreement, treaty, peace’ (< ‘joining’; cf. Lat. *pax* < *pangō*), *taksatar* ‘flat surface, plain’ (< ‘piece of [woven] fabric?’), and *taksan-* ‘middle, halfway point’ < ‘joint, seam’, *taksan sarra-* ‘split in half’ and UD-az *taksan tiyazi* ‘it is midday’, lit. the day approaches (its) midpoint’. Cf. Sturtevant, *Comp. Gr.*¹ 81; EHS 397-98; Oettinger, *Stamm.* 217-19, and for a dissenting argument (connecting with *tākk-* ‘resemble’ [12.92]) Laroche, *BSL* 58 (1963): 65-71.

6.35 — SEW — Although a verbal reflex of IE **sū-* (**syū-*, **sīw-*) is missing, the root probably appears in H. *suwēl-* ‘thread’ (6.38).

6.36 — NEEDLE — Possibly *KIRISSU* (HWb. Erg. 1: 31; Goetze, *JCS* 10 [1956]: 37 and n. 62).

6.38 — THREAD — *suwēl-* can be analyzed as the suffix *-ēl* on a root **sū-* seen also in Skt. *sūtra-* and ON *saumr*, possibly also Lat. *suō* ‘sew’. The Hitt. form does not help to clarify the relationship between this IE **sū-* and **syū-*, **sīw-* (Goth. *siujan*, Lith. *siúti*, OCS *siti*, Skt. *syū-*, *sīw-* ‘sew’; IEW 915-16). Cf. Carruthers, *Lg.* 6 (1930): 161-62; Sturtevant, *Comp. Gr.*¹ 111; Čop, *Die Sprache* 6 (1960): 6; P s.v.

gapina- 'thread, yarn' is without certain cognates; tentative comparisons have been suggested with *kappani-* 'cumin', a Semitic loanword (Akk. *kammūnu*, *kammanu*, Hebr. *kammōn*, etc.; E. Masson, *Recherches sur les plus anciens emprunts sémitiques en grec* [Paris, 1967], p. 51-52), and with Arm. *kap* 'thread' (Jahukyan, *Hayerenā* 154). A **gapinanza-* may appear, misspelled, in *gapanza*, cf. Puhvel, *Bi. Or.* 38 (1981): 353.

hanzana- is read as a quasi-synonym 'strand, thread, yarn', also 'web' in the phrase *auwawas hanzanas* (Akk. *qū ettuti*) 'spider's web', by Puhvel, *BHD ... Kerns* 237-40.

6.41 — CLOAK — Possibilities are ^{TÚG}*adupli-*, some kind of ceremonial cloak or other garment (= ^{TÚG}*NÍG.LÁM?*), perhaps of common origin with Akk. ^{TÚG}*uduplu* (Goetze, *Corolla Linguistica* 51-52; P 229, T 94-95), and *sek(u)nu-*, source unknown.

6.412 — OVERCOAT — ^{TÚG}*kariulli-*, perhaps a sort of (hooded) coat, fr. *kariya-* 'cover, protect' (12.26): cf. for meaning Lat. *toga* : *tegō*, or Sp. *abrigo*. Cf. Goetze, op. cit. 61.

6.42 — WOMAN'S DRESS — ^{TÚG}*NÍG SAL.* Goetze (ibid.) assigned here ^{TÚG}*kariulli-* and ^{TÚG}*kaluppa-*.

6.43 — COAT — ^{TÚG}*gapari-* (= ^{TÚG}*E.ÍB?*) may denote a tunic or short coat (T 490). *EHS* 225 connects it with **gap(i)-* in *gapina-* 'thread'. ^{TÚG}*sarriwaspa-* 'Ober-kleid'? 'Jacke'? (*HDW* 71) contains *waspa-* < *wes-* 'be clothed', see 6.11.

6.44 — SHIRT — Perhaps ^{TÚG}*GÚ.È.A* (Akk. *nahlaptu*); cf. Goetze, op. cit. 52-54, *HWb.* 296. ^{TÚG}*sasta-*, if from *sas-* 'sleep' (4.61), could mean 'night-shirt' or 'bedclothes' (*HDW* 73).

6.45 — COLLAR — *kuttanalli-* is from *kuttar* ‘neck’ (4.28; T 678), and means ‘neck-band’ or the like; cf. Lat. *collāre* : *collum*.

6.46 — SKIRT — Although a short kilt seems to have been the normal dress of the Hittite common man, its name is as yet undetermined, unless perhaps *ishuzzi-* ‘band, belt, girdle’ < *ishiya-* ‘bind’ (9.16).

The existence of some sort of skirt may be implied in ^{TÚG}*iskallessar*, derived from *iskalla(i)-* ‘slit, tear’, if it means ‘slit dress’ (T 398, P 414) and not ‘torn garment’.

6.49 — STOCKING — *patalla-* ‘sock’? (EHGl. 31) is very uncertain, although this and *patalha-* appear to be formed from *pata-* ‘foot’ (HWb. 166). Cf. also ^{TÚG}KAPALLŪ ‘stockings’, ^{TÚG}GAD.DAM ‘leggings’ (Goetze, op. cit. 60, 62).

6.51 — SHOE — The regular form is ^{KUŠ}E.SIR.

Gk. *πέδιλον* might be connected with H. *patalla-* or *patalha-* (6.49; HWb. 166).

6.52 — BOOT — ^{KUŠ}E.SIR *istappanta* ‘boots’ (Akk. *šahupatum*), lit. ‘covered footwear’, fr. *istap(p)-* ‘shut, enclose’ (12.25; P 473).

6.54 — SHOEMAKER, COBBLER — ^{LÚ}ĒPIŠ ^{KUŠ}E.SIR.

6.55 — HAT, CAP — ^{TÚG/GAD}*lupanni-* is some sort of round, flat ‘cap’, and is also used of part of a dagger (‘pommel?’); cf. Goetze, *Corolla Linguistica* 62; CHD 3.85-86. The source is unknown (EHS 222), although the variation seen in *luwanni-* suggests local origin (cf. *kupahi-*, Hurr. *ku-(ú-)wa_a-hi*, next).

Another type of men’s headgear is called *kupahi-* (^{TÚG}SAG.DUL; areal culture-word, cf. Hurr. *ku-(ú-)wa_a-hi*, Hebr.

koba ‘helmet’; Goetze, op. cit. 59; T 640-41), while that of women is denoted by ^{TÚG}*kuressar*, evidently a vbl. noun from *kuer-/kur-* ‘cut’ (9.22; e.g. Sturtevant, *Comp. Gr.*¹ 152; *EHS* 67), with a possible semantic analogy in ^{TÚG}*iskalessar* < *iskalla(i)-* ‘slit’ (T 646).

6.57 — BELT, GIRDLE — *ishuzzi-* ‘band, belt, girdle’ (P 410; see also Puhvel, *Bi. Or.* 38 [1981]: 350), is from *ishai-*, *ishiya-* ‘bind’ (9.16). There is also ^{TÚG}*massiya-* (^{TÚG}SA[G].GA.AN.DÙ) ‘waistband’ (Goetze, op. cit. 54.55).

6.58 — GLOVE — ^{SÍG}*kisri-* may belong here, from *kessar* ‘hand’, cf. Gk. χεῖρις < **ghes-rí-*, but the meaning may be rather ‘skein of carded wool’, fr. *kis(ai)-* ‘comb, card’ (*AI* 337).

6.59 — VEIL — GÁD IGI.HI.A must have this meaning (IGI.HI.A ‘eyes’); a suggested Hitt. reading is ^{TÚG}*hūbiki*, possibly from IE *(H)*webh-* ‘weave’ (T 295), with foreign *-k(k)i-* suffix (*EHS* 211).

6.63 — PIN — *sepikkusta-* (^{URUDU}ZI.KIN.BAR), worn in women’s hair, may denote the safety-pin or clasp type (*HWb.* 301). Etymology is obscure (*EHS* 191, 197).

6.71 — ADORNMENT — *unuwasha-* has been analyzed (Oettinger, *Stammh.* 472) as deverb. *unu(w)-a-sha-*, from a *-nu-* suffixed verb *u-* ‘adorn’, cognate with Lat. *ind-uō* ‘put on’ (op. cit. 322), *induviae* ‘clothing’, *ex-uō* ‘doff’, Avest. *aoθra-* ‘footwear’, etc., IE **eu-* (*IEW* 346).

A **hura-* ‘ornament’ may well be the second element of *istamahura-* ‘earring’ (Hoffner, *RHA* 21 [1963]: 38). With the denom. *hurai-* ‘to ornament, decorate’ (Laroche, *RHA* 15 [1957]: 14), it is reconstructed (by Van Windekens, *BHD ... Kerns* 338-39) **A₁(e)ur-*,

and compared with *A₁*wer-* in Gk. ἀείρω ‘lift, suspend’, Alb. *vjer* ‘hang up, hook’, Lith *virvė* ‘cord’, with semantics as in NHG (*ohr*)*gehänge*, Fr. *pendant*.

For discussion of Gk. κόσμος and Lat. *mundus*, see 1.1 and AI 331-44.

6.72 — JEWEL — NA₄*ku(wa)nnan-* (NA₄NUNUZ) most likely stands for ‘lapis lazuli, lazurite’, the blue-green mineral used for gemstones and pigment, referred to also by the related Gk. κύαρος. Further areally related possibilities in T 688-92.

NA₄.ZA.GÌN ‘blue stone’ may be lazurite, sapphire, or the like, while NA₄.GUG ‘red stone’ could be carnelian, porphyry, or ruby; the Hittite word *kirinni-* is perhaps from Hurrian (Laroche, *RHA* 24 [1966]: 176-77).

6.73 — RING — HAR (Akk. *šemīru*); HWb. 276.

6.74 — BRACELET — HAR ŠU ‘hand ring’.

6.75 — NECKLACE — *huwahuwartalla-* is a nominalized *-alla-* adj. from *hu(wa)hhurti-* ‘throat’ (4.29, T 263). Similarly, *kuttanalli-* is related to *kuttar-* ‘neck’, 4.28.

6.82 — TOWEL — GAD.

6.83 — NAPKIN — There is a *genuwas* GAD ‘knee-cloth’.

6.91 — COMB — GÌS.GA.ZUM conceals the noun, but the verb *kis(ai)-* is cognate with OCS *česati* and nominal derivs. *česlŭ*, OIr. *cír* (**kēs-rā*) ‘comb’, ON *haddr* ‘long hair’ (< **hazdaz* < IE **kos-tos*), Lith. *kasà* ‘braid, tress’ (DSS 449, AI 336-37), from IE **kes-* ‘comb, card’;

clean up; adorn', etc. (cf. Puhvel, *AI* 331-38, 417; *Bi. Or.* 38 [1981]: 353-54).

6.94 — OINTMENT — *wassi-*, 4.88.

6.95 — SOAP — Ancient Anatolian practice apparently made use of alkaline plant materials for cleansing, to judge from ^{GIŠ}*karsani-* 'soap-weed' (cf. Ertem, *Flora* 131-32), perhaps an areal culture-word akin to Gk. κάροδαμον 'nasturtium' (Furnée, *Erscheinungen* 64, n. 269; T 521).

hasuwai^{SAR}, included as 'soapweed' in *EHGL*. 82, is glossed 'wild rue' (*Peganum harmala*) in T 211, with reference to the use of its resin as a red coloring agent; cf. Pliny (*HN* 28.191) *prodest et sapo; Gallorum hoc inventum rutilandis capillis...*. Berman (*Stem Formation* 59) connects it with *has(sa)-* 'chip' or 'flake' (of soapwort): cf. *KBo* IV 2 I 39-41 *nu hassan* ^{GIŠ}*karassaniyas dāi n-an-kan pūwati n-an-kan istalgaizzi n-an purpuran* 1-EN DÙ-*anzi* '(s)he takes flakes of soapwort, pounds them, flattens them, and they make them into a lump' (P 451; cf. T 211, *EHS* 526).

The ideogram is ŠE+NÁG (Akk. *uhūlu*; *HWb.* 294).

DWELLING, HOUSE, FURNITURE

7.11 — DWELL — Hitt. uses *es-*, *as-* (Hier. *as-*) ‘sit’ < IE **ē*s- (12.13) to mean also ‘remain’ and ‘dwell’, just as Rum. *șede*, Fr. *résider* from IE **sed-* (P 291-300).

7.12 — HOUSE — *pir*, *parn-* (É) is probably an indigenous word, and occurs in most Anatolian dialects: Luw., Hier. *parn(a)-*, Lyc. *prñnawa-*, Lyd. *bira-* (Laroche, *RHA* 23 [1965]: 52-54; *EHS* 161; Puhvel, *AIED* 240 = *AI* 144).

purut-, *purutessar-* ‘clay, plaster, mortar’ or the like (9.73) also means by extension ‘house’ (*HWb.* 174).

7.13 — HUT — ^{GIŠ}ZA.LAM.GAR ‘hut’ or ‘tent’ (Akk. *kultaru* ‘tent’), with ^{GIŠ}ZA.LAM.GAR ŠA GI ‘reed hut’; see *EHGl.* 50, n. 81.

7.14 — TENT — ^{GIŠ}ZA.LAM.GAR (7.13), ^ÉZARATU.

7.15 — YARD, COURT — *hila-* (TÙR) is ‘(court)yard’, also ‘halo’ (around moon or sun), and possesses several derivatives, e.g. *hilanni-* and *hilamnant-* ‘courtyard’, *hilammi-* and *hilammatta-* ‘courtier’, *hilammar* ‘gatehouse’ (7.22), as well as numerous divine, personal, and place-names: ^DHilassi-, ^DHilanzipa-; ^HHiliyas; ^{URU}Hilammā, ^{URU}Hilammatiya-, ^{URU}Harsanhila-, ^{URU}Istuhila-, etc. (cf. e.g. Laroche, *Recherches* 69; *Noms* 67, 284; *RHA* 19 [1961]: 81-82).

Other Anat. relatives are Hier. GATE-(*la*)*na*- = *hilana*- and Lyc. *qla* ‘enclosure, τέμενος’ (Laroche, *BSL* 55.1 [1960]: 183; 62.1 [1967]: 55).

All attempts at IE etymology (recorded T 242-43) have failed; an indigenous Anatolian term is indicated.

7.21 — ROOM — *antaka*- or *antaki*- is apparently derived from *anda*- ‘within’, with a suffix of either foreign (*EHS* 210-11) or IE origin (*-*gh*-; P 77). Lyc. *ñtata* ‘chamber’ < *ñte* ‘in(side)’ may be parallel (Laroche, *Fouilles de Xanthos* 5 [1974]: 136).

Some sort of ‘anteroom’ or ‘vestibule’ seems to be intended by *arku*- (P 148), possibly from Hurrian (*EHS* 225), cf. Hurroid Akk. *arkabinnu* ‘a kind of door’ (I. Singer, *ZA* 65 [1975]: 86).

An ‘inner chamber’ of the house is denoted by É.ŠÀ, H. *tunnakkessar* (*HWb.* 228).

7.22 — DOOR, GATE — The Hitt. reading for ^{GI}ŠIG ‘door’ is *arasa*-, whose variant reading *asari*- points to a likely source in Hurr. *ašar* ‘gate, door’ (Puhvel, P 128-29; *JAOS* 102.1 [1982]: 178).

While the ‘gate’ proper is ^{GI}ŠKÁ (Akk. *bābu*), H. *aska*- refers to the ‘gateway’ which surrounds it (cf. KÁ.GAL-*as āski* and *āsga* ANA KÁ [P 213, 214]), and is another Anat. areal term, like *hila*- ‘courtyard’ (7.15) and *pir*, *parn*- ‘house’ (7.12; P 215)—PIE **dhwer*- does not survive in Anatolian.

The gateway structure of *aska*- plus ^{GI}ŠKÁ lies within the *hila*mmar ‘gatehouse’ or ‘portal’, denom. from *hila*- ‘courtyard’, with a semantic development exactly the opposite of that seen in Lat. *forīs* : *forum* or Russ. *dver’* : *dvor* (P s.v.). Also used to denote this structure is KI.LAM, otherwise ‘market’, cf. Akk. *bāb mahīrim* ‘market gate’ (Singer, *ZA* 65 [1975]: 91-95).

‘Side door’ or ‘postern’ might be the meaning of ^(É)l^(É)ustani- (*CHD* 3.88); a detailed discussion of the term is in Laroche, *RHA* 10 (1949): 25-26.

7.23 — LOCK — The origin of ^{GIŠ}*hattalu-* ‘bolt’, with animate *hattalwant-* and denom. *hatalwai-* ‘to bolt, lock’, is unknown (T 219). *zakki-*, possibly ‘bar’ (EHS 204), is likewise obscure.

7.25 — WINDOW — The Hittite ‘window’, *lutta(i)-*, *luttant-* (^{GIŠ}AB) was a sophisticated enough affair to be opened (*has-*) and closed (*istap-*), probably by means of shutters (CHD 3.88-89). The likely derivation is **luk-t-* < IE **lewk-* ‘light’ (H. *lukzi* ‘becomes light, dawns’; AI 221), like Avest. *raočana-* ‘window’ and ON *ljóre* ‘roof-hole’ < *ljós*, also ON *gluggr* ‘window’ : *glóa* ‘glow’.

7.26 — WALL — *kutt-* (Akk. *šahādu*), vbl. noun *kuttessar* ‘walling, walls’ (Hier. ^{CHISEL}*kutasara/i-*), reflects **ḡhu-t-* from IE **ḡhew-* ‘pour’ (IEW 447-48), with the requisite semantics illustrated by Gk. *χέω* ‘pour; pile up’, *χυτή γαῖα* ‘earth-heap’, *χωμα* ‘mound’ (Laroche, *Syria* 31 [1954]: 106; EHS 255; T 676-78; P s.v.). This accords with both the occasional NA₄ determinative and the archeological evidence.

7.28 — ROOF — The source of *suhha-* is unknown, though it is difficult to separate from *suhha-* ‘throw, scatter’ (9.34); cf. perhaps *suhha warhui* ‘strohgedecktes Dach’? (HWb. 196).

7.31 — FIREPLACE — *hassa-* matches Osc. *āsā-*, Lat. *āra* ‘altar’, ON *arinn* ‘hearth’, IE **ās-* (**A₁eH₂-s-*) ‘burn’ (IEW 68); cf. Pal. *hā-* ‘be warm’ (Melchert, KZ 94 [1984]: 41-42). Something like NHG ‘Herdstelle’ or NE ‘hearth’ may have been referred to by *hassanzipa-*, where *-zipa-/sepa-* evokes the intrinsic numinous power of the object; cf. *Āska-sepa-* (*aska-* ‘gate’, 7.22), *Hilanzipa-* (7.15), *daganzipa-* (1.212).

7.32 — STOVE — The term for ‘brazier’, forerunner of the more modern ‘stove’ (DSS 476), is *pahhunalli-* (GUNNI), transparently from *pahhur* ‘fire’ (1.81), with adj. suffix *-alli-*, EHS 212.

7.41 — FURNITURE — A piece of ‘furniture’ may be ^{GIŠ}*harduppi-*, likely a foreign word (EHS 224, T 189), compared with Gk. κάρδοπος ‘kneading-trough’ by Furnée, *Erscheinungen* 257.

7.42 — BED — *sast(a)-* is from *sas-* ‘lie down, sleep’ (4.61), with *-t-* suffix perhaps equivalent to that of *kutt-* ‘wall’ (P s.v.) and *lutta(i)-* ‘window’; cf. e.g. Lat. *lectus* < **leg-* or Gk. κοίτη < **key-*.

Further terms are of foreign origin, and refer to various types of couch: ^{GIŠ}*haputi-* (EHS 237, T 168), *namulli-* (EHS 213), *nathi-* (< Sum. *nàd?*, EHS 244).

7.43 — CHAIR — ^{GIŠ}*kishi(ta)-*, *keshi-*, also *hishi-* (^{GIŠ}ŠÚ.A-*hi-*) is a loanword from Hurr. *kis-hi-*, in turn from Akk. *kuššu*, Sum. *gu.za* (cf. ^{GIŠ}GU.ZA ‘throne’) (T 590-91).

Obscure and probably also not native Hitt. are *hapsalli-*, *hassalli-* ‘stool’ (EHS 214, T 167; improbably connected with OPruss. *abse*, Russ. *osina*, OHG *aspa*, ON *ǫsp* ‘aspen’ by Van Windekens, BHD ... Kerns 331-32) and *tapri-* ‘chair’ (EHS 225).

The ‘throne’ as an item of furniture is ^{GIŠ}GU.ZA (prob. *kishi-* or *hishi-*), but as the symbolic representation of royalty and its power, it is denoted by a separate term *halmasuitt-* (^{GIŠ}DAG; often deified ^{DINGIR}DAG). The source of the latter is Hattic ^D*Hanwas(u)wit-* (and variants), analyzed as *ha-* (locative) + *n(i)was(u)-* ‘sit’ + *-it* (fem. suffix) by Laroche (RA 41 [1947]: 89), further refs. T 134.

7.44 — TABLE — The usual term is ^{GIŠ}BANŠUR; several others are uncertain and unanalyzable: *hariuzzi-* (T 173), *lahhura-* = ^{GIŠ}GAN.KAL (CHD 3.15), *papu-* (EHS 251), *puriya-* (EHS 169-70).

7.45 — LAMP — An alternative to ^{DUG}IZI.GAR (Akk. *nūru*) is *sasanna-* (HWb. 188), perhaps *sas-s(a)na-* (EHS 183), though a connection with *sas-* ‘sleep, lie down’ has not been demonstrated.

^(GIŠ)*zuppari-*, *zupparu-* ‘torch’ was linked with Skt. *kṣūbhyati* ‘shake, tremble’ by W. Petersen (*Mélanges H. Pedersen* 473, comparing for meaning Lat. *tremula flamma*, *tremulum lumen*, etc.), with improbable *-pp-* < **-bh-*.

AGRICULTURE, VEGETATION

8.11 — FARMER — ^{LÚ}ENGAR.

8.12 — FIELD — ^{A.ŠÀ}*terippi-* is from *teripp-* ‘plow’ (8.21); cf. late Church Slavic *ralija* (Pol. *rola*) from OCS *orati* ‘plow’, or Avest. *karšū-* (Skt. *karṣu-* ‘furrow’) from *karš-* (Skt. *kṛṣ-*) ‘plow’.

An ‘irrigated field’ may be what is meant by ^{A.ŠÀ}*sissuras-* (HWb. 194, HDW 76; cf. Laroche, *Ugaritica* 5 [1969]: 778); denom. *sissuriya-* ‘irrigate’. It is a likely technical loanword, as are the terms for irrigation ditches or channels, *amiyara-* (P 48) and *alalima-* (P 28).

The most probable connection of *arziya-* ‘cultivated land’ is with *arsi-* ‘cultivation, planting’ (> *arsai-*, *arsiya-* ‘cultivate’, 8.15); P 187.

8.13 — GARDEN — ^{GİS}SAR (Akk. *kirū*).

8.14 — BARN — One of various kinds of outbuildings (all represented ideographically) is ^ÉIN.NU.DA (IN.NU.DA ‘straw’), read Hitt. *taiszi-* (*Alimenta* 34). Another is ^É*garupahi-*, perhaps ‘granary’, borrowed from Hurr. *karubi* (Laroche, *RA* 54 [1960]: 198-200).

8.15 — CULTIVATE — *arsai-*, *arsiya-* is denom. from *arsi-* ‘planting, cultivation’, probably an areal technical term seen also in Hes. ἄρσέα · λειμῶνες. Further identity with *ar(a)s-*, *arsiya-* ‘flow’ (10.32) is plausible in view of the importance of Middle Eastern

and Asian irrigational technology in Anatolian agriculture (P 173-74; cf. 8.12).

Like verbs for 'work' (9.31) in many other languages, Hitt. *an(n)iya-* can have this meaning (P 66, 68); cf. Fr. *labourer*, Nlr. *oibrighim*, ON *yrkja*, *vinna*, OCS *dělati*, SCr. *obraditi*, Avest. *aiwi-vərəz-*, etc. (DSS 493-94).

8.21 — PLOW — The noun for 'plough' is always concealed by sumerographic ^{GIŠ}APIN (Akk. *epinnu*). The verb 'to plow', on the other hand, is well attested by two different terms, often occurring together in the asyndetic phrase **harszi terpzi*. This expression reflects a situation similar to that denoted by *harra- malla-* 'pound (and) grind' (5.56), where the inherited word for an activity traditionally known to the early IE speakers is joined by a borrowed term for a more recently adopted Mesopotamian-based technique. Thus *teripp-* 'plow' matches Lat. *trepō* and Gk. *τρῆπω* 'turn', with the same sense as in Lat. *terram vertere* 'turn the sod' and a possible meaning-parallel in Skt. *karṣ-*, Av. *karš-* 'plough' < **k^wel-s-* (**k^wel-* 'turn'), whereas *har(a)s-* can be a technical loanword, from Akk. *harāšu* 'plant', *harāṣu* 'dig a furrow', or WSem. *ḥaraš-* 'plow'. See Puhvel, *AI* 1-3, 110-24; *Bi. Or.* 36 (1979): 57.

Less likely competing explanations involve connections of *teripp-* with IE **treb-* (Mlr. *trebad* 'plow, inhabit', W. *tref* 'homestead', Goth. *þaúrþ* 'field', Osc. *trībúm*, Lith. *trobà* 'house', etc. [*IEW* 1090]; e.g. G. Jucquois, *RHA* 22 [1964]: 91-92), **drep-* (Gk. *δρεπω* 'pluck', *δρεπάνη* 'sickle' [Rosenkranz, *JEOL* 19 (1965-66): 502]), or **ter(i)-*, **trī-* 'rub' (e.g. Gk. *τρῖβω* [Pisani, *Paideia* 9 (1954): 128]), but all present formal or semantic difficulties. The derivation of *har(a)s-* from IE **ar(ā)-* 'plow' (from Goetze, *Tunnawi* 70), though very common, is doubtful (cf. T 182-83).

8.212 — FURROW — *akkala-* (AB.SÍN) suggests a reconstruction from **ok-*, seen in Gk. ὄγμος 'furrow' (Benveniste, *HIE* 107-8, thus separating ὄγμος from **aĝ-* 'drive'), and possibly Lat. *occa*, Corn. *ocet*, Gk. ὄξινη, Lith. *akėčios* 'harrow' (Čop, *Ling.* 5 [1964]: 26) and Arm. *akaws* 'furrow' (Greppin, *PBH* 1972: 3 [58], p. 221-24; P 23).

The gloss 'tiefgehender Pflug' (T 9, following Oettinger, *Eide* 14, 50) is inferior and unnecessary, cf. Puhvel, *Hethitisch und Indogermanisch* 215-216, n. 36 = *AI* 362-63.

8.22 — DIG — *peda-*, written in classical Hittite *pè-da-* to avoid confusion with *peda-* 'carry off', reflects IE **bhedh-*, with cognates Lat. *fodiō* 'dig', Lith. *bedù* 'bore, dig', W. *bedd* 'grave' (Pedersen, *Hitt.* 76-77; Puhvel, *Hethitisch und Indogermanisch* 214-16 = *AI* 361-63; *IEW* 113-14).

8.23 — SPADE — ^{GIŠ}MAR URUDU or ^{URUDU}MAR.

8.24 — SHOVEL — *intaluz(z)i-*, of unknown source, has the suffix *-uzzi-* (*EHS* 241). Compared tentatively with Gk. ἐντεα 'implements' at P 374 and *AI* 250, rejected in T 362.

8.25 — HOE — The reading of ^{GIŠ}AL (Akk. *allu*) is ^{URUDU}*tekan*, kept apart from *tekan* 'earth' in *EHS* 270 and also by Laroche (*RHA* 10 [1949]: 20-21; cf. *HWb.* 220), who showed that it is from IE *(s)*teyg-* 'pointed', seen e.g. in Skt. *téjate* 'is sharp', *tigrá-* 'sharp', OPers. *tigra-* 'point' (15.78; *IEW* 1016).

8.27 — RAKE — ^{GIŠ}*hah(ha)ra-*, probably 'rake' or similar, was thought to be reduplicated from a **har-*, cf. *hars-* 'till' (8.21) by Rosenkranz (*JEOL* 19 [1967]: 505; also Gusmani, *Lessico* 67; T 122). Rejecting this approach, Puhvel (*AI* 250-51) compares instead Lat.

ārea ‘threshing-floor’ < *A₁eA₁riyeA₂ (8.35), via the Hitt. verb *hahriya-* ‘rake’.

8.31 — SOW; SEED — *sai-*, *siya-* has both meanings of IE **sē-*, ‘sow’ (Goth. *saian*; Lat. *sēmen*, OIr. *síl*, OE *sæd*, etc. ‘seed’) and ‘throw’ (Skt. *sāyaka-* ‘missile’), as well as ‘press, put on (headwear)’, with ‘sow’ especially in the phrase *para siya-*. See Laroche, *BSL* 58 (1963): 73-76.

Also meaning ‘sow’ is *suniya-*, from a primary meaning ‘scatter’ or ‘pour’ (9.35).

an(n)iya- ‘work’ (9.31) is also used in this sense (P 66, 67, 68).

‘Seed’ is NUMUM, Akk. *zēru*, Luw. reading *warwalanant-* or *warwatn(ant)-*, 2.57.

8.32 — MOW — *war(a)s-*, *warsiya-*, basically ‘sweep clean’ (9.37), is also used occasionally with reference to fields, and thus may have ‘mow’ as a corollary meaning (along with ‘thresh’ [8.34] and ‘reap, harvest’ [8.41]), e.g. *n-asta apūn* A.ŠÀ-LAM *arha war[asdu* ‘let him harvest that field’ and A.ŠÀ *warrasuwas* ‘harvestable field’ (AI 198).

8.33 — SICKLE — *kullupi-*, probably an areal culture-word (cf. Akk. *kalappu*, Hebr. *kēlappot*, Aram. *kulbā* ‘hoe, pick’), is usually glossed ‘sickle’ (e.g. *HWb*. Erg. 3: 10; Laroche, *RHA* 15 [1957]: 9-11), though the possibility of its being made of wood (e.g. Berman, *Stem Formation* 17) may be cause for doubt (T 630). In any case the ideograms ^{URUDU}KIN and ^{URUDU}KIN.GAL stand for this implement (*Alimenta* 28-29).

8.34 — THRESH — A verb **huek-* (inf. *huganna*, vbl. noun *huigatar*) is postulated for this activity in *Alimenta* 31-32, uncon-

nected with homophones meaning 'slaughter' (4.76) and 'utter an incantation' (18.21).

We have also KISLAH-*an wars(iya)-* 'sweep the threshing-field', with *wars(iya)-* matching e.g. OCS *vrěšti* 'thresh' and Lat. *verrō* 'sweep' (9.37). This descriptive designation of the early technique is echoed in Latin, e.g. Horace (*Carmina* 1.1.10) *quidquid de Libycis verritur areis* 'whatever is swept up from Libyan threshing-floors' (*AI* 247).

8.35 — THRESHING-FLOOR — Sumerographic KISLAH (dat.-loc. sg. KISLAH-*ni*) is the only attested representation of the Hittite concept.

It is possible to compare Lat. *ārea* with H. *hahriya-* 'to rake' (**A₁eA₁riyeA₂*), ^{GIŠ}*hah(ha)r(a)-* 'rake', and to construe H. *hahrannas* as gen. sg. of a **hahratar* '(place) of raking, threshing-place', thus affording some insight into early IE threshing and harvesting technique; see *AI* 246-51. Such a reconstruction suggests a possible refinement of the meaning of ^{GIŠ}*hah(ha)r(a)-* from 'rake' to something more like 'ripple', and the further deduction that the sense 'open space' in Lat. *ārea* developed from 'threshing-field', and not the reverse (cf. *DSS* 510).

8.41 — CROP, HARVEST — The regular term is sumerographic BURU_x-*a(nza)-* (Akk. *ebūru*); *Alimenta* 24-28. The usual derivation of *halkuessar* from *halki-* 'grain' (8.42) (e.g. Laroche, *RHA* 11 [1950]: 39-40; T 134) fails to explain either the origin of the -*u-* (*EHS* 290; Rosenkranz, *JEOL* 19 [1965-66]: 503) or the occasional meaning 'first fruits (for sacrifice)'. The key to a better approach lies in the allograph MELKITU 'income, revenue' (Friedrich, *AfO* 14 [1944]: 349) from *leqū* 'take, receive'. The meaning of *halkuessar* is thus (substantive) 'yield, produce', and the etymon IE **A₁elg^{wh}-* (cf. Čop, *Indogermanica minora* 31-32; P s.v.). Cognates include Skt. *ārhati*,

Av. *arəṣaiti* 'be worth', Gk. ἀλφή 'gain', Lith. *algà* 'wages', etc. (IEW 32-33).

'To harvest, reap' can be expressed by *wars(iya)-*, properly 'sweep' (9.37); cf. also 8.34 'thresh'.

8.42 — GRAIN — *halki-* (ŠE; also deified ^D*Halki-*; cf. Lat. *Ceres*) is in all probability a Middle Eastern and Mediterranean culture-word (EHS 211). Possible attestations are widespread, e.g. Anatolian (Tyana) Gk. ἄλιξ, Lat. (*h*)*alica* 'spelt' (Neumann in T 133), and perhaps Etr. *halχ(za)*, if 'beer' (V. Georgiev, *Linguistique balkanique* 5.1 [1962]: 41).

Čop (*Hethitica* 4 [1981]: 31-32) unnecessarily connected *halki-* with IE **(A₁)elg^{wh}* as in his etymology of *halkuessar* 'produce, harvest', still influenced by the traditional connection of the two (8.41).

8.43 — WHEAT — Several individual varieties are referred to in the texts. Wheat in general, and possibly specifically 'bread wheat', *Triticum vulgare*, are denoted by ZÍZ(-tar). *kant-*, plausibly 'einkorn' (*Alimenta* 69-73), may have related forms in a Lyc. *χada-* 'grain' (cf. *χθθase* 'Futtermittel' [?]), Lycian place-names Κάδρεμα (called σίτου φουγγμός by Stephanus of Byzantium) and *Kadyanda* < *χadawāti* 'grain-rich', as if Hitt. **kant-want-* (like **Wiyanawanda* > Pisidian Οινόανδα; G. Neumann, *Die Sprache* 8 [1962]: 208; cf. T 486). The idea of an Iranian loan source for H. *kant-* (from J. Potratz, *Pferd* 184-85; cf. T 486; comparing Avest. *gantumō* 'wheat') is to be doubted, nor is a connection with Gk. χόνδρος 'groats' (: Ugar. *ḥundrt?*) convincing (Juret, *Vocabulaire* 6; cf. *Alimenta* 60-70).

The etymology of *karas-*, possibly 'club wheat' or 'emmer' (*Alimenta* 73-77), is unknown (see T 498), as is that of *seppit-* (cf. Laroche, *RHA* 11 [1951]: 68).

8.44 — BARLEY — In addition to generic 'grain' (8.42), *halki*- also means specifically 'barley'. A particular kind is apparently meant by *e(u)wa(n)-*, an inherited IE word < **yewo*- 'grain', seen e.g. in Ved. *yáva*- 'grain, barley', Av. *yava*- 'grain', Pers. *jav* 'barley', Lith. *javaĩ* 'grain', Gk. ζειαί 'spelt', etc. (ibid. and P 321). See *Alimenta* 77-82.

8.51 — GRASS — Several words for (types of?) grass are known. For *welku(want)-*, some connection with the root **wel*- seen also in *wellu*- 'meadow' (1.23) is conceivable; cf. W. *gwellt* 'grass', ON *vøllr* 'meadow', etc. No etymologies have been found for *kariyant*- or the related *karitasha*- (T 507, 510; cf. *kariya*- 'cover' [12.26]?) or for *uzuhri*- (or *ūzuhri*-; EHS 225).

8.52 — HAY — The expression 'dried grass' is used; *welku hadan* or *uzuhri-/ūzuhri-hadan*.

8.53 — PLANT — *gangati*^(SAR) apparently refers to herbs, particularly those with magical or healing powers (Laroche, *RHA* 111 [1950]: 38-39), etym. obscure (EHS 238).

8.54 — ROOT — *surki*- (also *surka*-, *HWb.* 200) reminded Neumann (KZ 77 [1961]: 78-79) of IE **swer*-/*sur*- 'pole, post', Skt. *sváru*-, OE *swer*-, etc. 'post', Lat. *surus* 'twig, sprout', with -*k*-suffix as in ON *svíri*, OE *swira* 'neck' < **swer*-*xyōn* (cf. EHS 211; Eichner, *MSS* 31 [1973]: 74). Root-connection of Gk. (Ϝ)ρίζα, Lat. (*w*)*rādex*, via **wr*-*d*- vs. *(*s*)*wr*-*k*-, is suggested by Puhvel (cf. Hitt. *sankuwai*- : Lat. *unguis* 'nail').

8.55 — BRANCH — The word is *alkista(n)-* (Akk. *ARTU*), serving for 'branches' of vines, etc. and 'boughs' of trees. A division into *alk*- + *-ista(n)-* is secured by the further botanical

terms *hurpasta(n)-*, *hurpusta-* ‘leaf’ (8.56), *hatt-alk-esna-* ‘thorn-bush’, and *tap-alk-ustana-*, name of a plant. Disengaged from the various affixes, the root *alk-* (IE **A₂él-g̑-*) can be linked (cf. Čop, *Indogermanica minora* 30-31), with OCS *loza* ‘vine, tendril, shoot’ and Hes. ὀλόγινον · ὀζῶδες and κατάλογον · τὴν μύρτον (**A₂l-oḡ-*; cf. P 36, T 17-18).

8.56 — LEAF — *hurpasta(n)-*, *hurpusta-* refers to a ‘leaf’ of trees and other plants, as well as the skin of an onion. Setting aside the suffix *-asta(n)-*, *-ista(n)-*, *-usta(n)-* (cf. 8.55), the word can be reconstructed **H₁wrb-* and compared with e.g. Lit. *virbas* ‘twig, sprig’, etc.; Gk. ῥάβδος ‘twig, rod’ (*IEW* 1153); and possibly Lat. *verbēna* (< **werbes-nā*), sacred leaves and branches of various plants (cf. Neumann, *KZ* 77 [1961]: 79; *EHS* 43; refs. and further details T 307, P s.v.).

The collective ‘foliage’ is expressed by ^{Giš}*lah(h)u(wa)rnuz(z)i-* (*CHD* 3.15-17; Laroche, *Ugaritica* 5 [1968]: 774-75, 778-79); etym. ?

8.57 — FLOWER — *alil-*, *alel-* belongs to a widespread group of culture-words, including such far-flung members as Gk. λείριον, Lat. *lilium*, Coptic *hrēri*, *hlēli* ‘lily’, Alb. *lule*, Cushitic *ilili*, Basque *lili*, and Estonian *lill* ‘flower’; cf. Benveniste, *BSL* 50.1 (1954): 43; T 16-17; P 32-33.

8.60 — TREE — *taru-* ‘tree, wood’, 1.42.

8.61 — OAK — *allantaru-* is composed of Semitic *allan* ‘oak’ (Akk. *allānu*) + Hitt. *taru-* < IE **doru-* ‘tree’, 1.42; Hoffner, *Orientalia* N.S. 35 (1966): 390-91; T 14; P 29.

8.65 — FIR — Although *e(y)a(n)-* has been assigned here in the past (e.g. Güterbock, *RHA* 22 [1964]: 100; *EHG*l. 41; *CHD* 3.78, 956),

it is better interpreted as 'yew' and compared with ON *ýr*, NE *yew*, OIr. *éo*, OPruss. *iuwis*, etc. (cf. Ivanov, *Etimologija* 1971: 298-302; Friedrich, *Proto-Indo-European Trees* [Chicago, 1970], p. 136-37, and see Puhvel, *Kratylos* 25 [1980]: 136-37; P 253-57). The name of the 'fir' is more likely *tanau-*, probably cognate with OHG *tanna*, Du. *den* 'fir' (: Skt. *dhanvan-* 'bow?'), IE **dhonu-*, **dhon-wo-* (Neumann, *KZ* 77 [1961]: 77-78). The flat needles of *Abies* hint at ultimate connection with IE **dhen-* 'flat surface, palm' (Gk. *θέναν*, etc., *IEW* 249).

8.67 — VINE — ^{GIŠ}GEŠTIN, 5.76.

MISCELLANEOUS PHYSICAL ACTS; OTHER
MISCELLANEOUS NOTIONS

9.11 — DO, MAKE — *iya-* is the basic verb meaning ‘make’ and ‘do’. Besides the common iter. *essa-* (P 300-5, T 111-12), related forms include Luw. *a(y)a-*, Hier. *a(i)a-*, Lyc. *a-*, and Lyd. *i-*. The most plausible etymology connects *iya-* with Toch. *yām-* ‘make’ (H. Holma, *Journal de la Société finno-ougrienne* 33.1 [1916]: 23-24). Beyond this widely accepted collocation, many other attempts have been made which are semantically doubtful, mostly involving IE **yē-* ‘throw’ (IEW 502). Further linking of Skt. *yam-* ‘hold’ (e.g. Watkins, *Idg. Gr.* III/1: 71) is also questionable, and identification with H. *iya-* ‘go’ (10.47; e.g. Hrozný, *SH* 153) is generally rejected (cf. T 338-43, P 335-47). Abandoning this approach altogether, V. Machek (*Die Sprache* 4 [1958]: 79; approved of in P 346) saw *iya-* as a verbalization of the pronominal stem *a-* ‘it’ (< **e/o-*), thus ‘(do) it’, by the same process as in *anniya-* ‘work’.

an(n)iya- ‘work, do, produce’, etc. (Luw. *an[n]i[ya]-*, Pal. *ani[ya]-*) has been interpreted as denominatively based on an IE word for ‘weight, burden’, as in Lat. *onus* ‘load’, Gk. *ἀνία* ‘distress’ (e.g. J. Duchesne-Guillemin, *TPS* 1946: 74). Formal and semantic difficulties with this derivation prompted V. Machek (op. cit. 76-79) to imagine instead a development from pronominal *anna-*, *anni-* ‘that’, as in Lith. *anúoti* : *anàs*, Czech *onačiti* : OCS *onŭ* (T 30, P 66-71).

9.12 — WORK (sb.) — *aniyatt-* ‘work; task’, is from *an(n)iya-* ‘make, do’, etc. (9.11), with abstract suffix *-t-*; see EHS 254, P 69-70.

9.13 — WORK (vb.) — The sense is most nearly rendered by *an(n)iya-*, 9.11.

9.14 — BEND — Closest to the transitive sense is *laknu-* ‘knock over; fell (tree or wrestling opponent); train (vine); persuade’, lit. ‘cause to lean’ < *lakk-* ‘fall down or out, incline’ (CHD 3.17-18, 19-20), cf. OE *hlinian*, *hlēnan*, Gk. κλίνω, Lat. *dē-clīnāre*, etc. < IE **kley-*. The root-connection is probably with IE **leǵh-*, **loǵh-* ‘lie’, OCS *po-ložiti* ‘lay’, etc. (Eichner, MSS 31 [1973]: 99, n. 83), cf. DSS 834.

Words meaning ‘bend oneself, bow’ and the like are numerous. *kaniniya-* ‘crouch’ may be fr. IE **kney-n-*, corresponding to **kney-g^wh-* in OE *hnīgan* ‘bow, bend’, Lat. *cō-nīvēō* ‘blink’, etc. (Puhvel, *Bi. Or.* 38 [1981]: 352). *hink-* ‘bow, show reverence’ can match Skt. *añc-* ‘bend, hook’ (IE **A₁enk-*, **A₁onk-*), with Gk. ἄγκων ‘elbow’, Lat. *uncus*, OE *angel* ‘hook’, etc. (Hendriksen, *Untersuchungen* 28, T 250-51). *ar(u)wai-* ‘prostrate oneself’ is connected with Lat. *ruō* ‘fall down, collapse’ (Laroche, *RPh.* 42 [1968]: 243-44), Gk. ὀρούω ‘rush forth’ < *(*E₁*)*r-éw-* ‘stir, rush’ (P 184-85).

9.16 — BIND — *ishai-*, *ishiya-* (Luw. *hishiya-*) is from IE **sE₂-óy-* (with prothetic *i-*), the root **seE₂-(y-)* ‘bind’ and its variants being seen in numerous cognates including Skt. *sātum*, *syāti* ‘bind’, *sētu-* ‘bond’, Av. *hāy-*, Lith. *siėti* ‘bind’, ON *seiðr* ‘rope, line’, *sími* ‘string’ (cf. Lat. *saeta* ‘bristle’), Gk. ἵμας ‘strap’, etc. Cf. DSS 546, IEW 891-92, T 384-88, P 398-403.

hamenk- was compared with Gk. ἄγκω, Lat. *angō* ‘lace up’, OCS *vezati* ‘bind’, etc. (IEW 42) by Pedersen (*Hitt.* 197), though his connection via a **hwenk-* with Skt. *vāñcati* ‘stagger’ was misguided.

More plausibly Van Brock–MacGregor (*RHA* 20 [1962]: 32) reconstructed a nasal-infix *ham-en-k-* (**H₁[a]m-en-ġh-*), endorsed by Oettinger, *Stammb.* 148 and n. 32 (doubted in T 142 and *EHS* 433); similarly V. Georgiev, *Linguistique balkanique* 25.4 (1982): 15. Van Windekens (*Festschrift for O. Szemerényi* 913–14) tentatively opts for a Semitic source (**hṇk-*), while deriving Gk. ἀνάγκη ‘constraint’ directly from Hitt. *hamank-*. Puhvel (p.c.), reading /hmenk-/, suggests a comparison with Lat. *mancus* ‘crippled’, IE **H₁menk-*.

kaleliya- ‘bind, fetter’ appears denom. from an unknown **kalel-* or **kaleli-* (*EHS* 497; Oettinger, *Stammb.* 354), perhaps *-ēl* (cf. *suwēl-* ‘thread’, 6.38) added to a root **kel-*, but no root-formation is apparent.

9.17 — BOND — *ishiul-* ‘binding’, also ‘obligation, treaty’, a neut. abstract from *ishiya-* ‘bind’ (9.16), gave rise further to factitive *ishiulahh-* ‘enjoin, instruct’ (P 401). Related words with equivalent meaning include Lith. *saĩtas*, OE *sĩma*, Avest. *hinu-*, Skt. *sētu-*.

9.18 — CHAIN — URUDU *SĪR.SĪR* (?; *EHGL.* 30).

9.19 — ROPE, CORD — *ishima(n[a]-*, *ishamin(a)-* is from *ishiya-*, *ishai-* < **sE₂-(y-)* (9.16), thus analogous to Gk. ἵμας ‘strap’, Skt. *sĩmán-* ‘hair-parting’, ON *sĩmi*, OE *sĩma* ‘string, band’, and cognate also with ON *seiðr* ‘line’, *seil* ‘cord’, Lith. *saĩtas* ‘band, string’, etc. (P 399–400, 402).

sum(m)anza(n)- < **sũ-* ‘sew’ + *-mṇ-(s)-* (cf. *suwēl-* ‘thread’, 6.38), can be compared with Gk. ὕμνος (cf. for meaning H. *ishamai-*, Skt. *sāman-*, Gk. ὄμη ‘song’ < **seE₂-m-*, **sE₂-om-y-*; P 395), ON *saumr* ‘seam’, Skt. *syũman-* ‘bond’ (P s.v.; *EHS* 178, 199).

suwēl-, *gapina-*, *hanzana-*, see 6.38.

9.192 — KNOT — DUR (?; *EHGl.* 53 and n. 93).

9.21 — STRIKE — Besides *kuen-* < IE **g^when-* (*DSS* 552; see 4.76), a variety of other Hitt. words express similar notions:

wal(a)h- (*GUL-ah-*) may belong with Lat. *vulnus*, Hom. οὐλή 'wound', etc. (*IEW* 1144-45; Benveniste, *BSL* 33 [1932]: 137), the root being **welH₁-*. Cf. also Arm. *batxem* 'knock' (T. Schultheiss, *KZ* 77 [1961]: 221).

Identity of *hulla-*, *hulliia-* 'strike down' with *wal(a)h-* (assumed by e.g. Petersen, *JAOS* 59 [1939]: 176; T 274-76) is formally improbable, and comparison with Gk. ὀλλῦμι 'destroy' (Couvreux, *Hett. H.* 143-44, 324; O. Szemerényi, *KZ* 73 [1956]: 73-74) is also doubtful; see 11.27. Cf. also Arm. *xolxolem* 'massacre' (Schultheiss, *op. cit.* 220).

zahh- is obscure, the source of *z-* being unknown. Reconstructing **ds-eA₁-* > **das-* as in Hom. δαῖ 'in battle' (Schindler apud Oettinger, *Stamm.* 447) is very speculative; for δαῖ cf. rather H. *lahha-*, 20.13. V. Georgiev's derivation (*KZ* 92 [1978]: 95-96) from **tw-eh-* (adducing Gk. σάω 'sift, bolt') relies on an improbable shift of **tw-* > H. *z-* (cf. also A. Carnoy, *Orbis* 1 [1952]: 426).

hazziya- 'strike, hit' and further *hazziski-*, *hazziki-* 'strike (play) a musical instrument', are derivs. of *hatta-*, whose basic sense seems to be 'chop' (9.22).

lahiyai- 'attack' (Lyc. pret. *laχadi* 'he attacked') is from *lahha-* 'military campaign; journey' (20.13; *CHD* 3.4-6, 7-9).

9.22 — CUT — IE **(s)ker-* (*IEW* 932-47) survives in Hitt., Pal., Luw. *kars-*, with *-s*-extension as in Gk. κουρά 'tonsure' < **κορσά*, Toch. A *käršt*, B *kärst* 'cut off'. A *-t*-extended form (in Skt. *kṛntāti*, Russ. Church Slavic *čřěsti* 'cut', Lith. *kiršti* 'hack', Arm. *k'ert'em* 'peel', Lat. *cortex*, etc.) yielded the rarer H. *kartai-* 'cut (cloth)'; cf. T 517-20, 523-24. The same **(s)ker-* also produced *iskar-* 'sting, prick,

stab, skewer; stick, fasten; cling to'; cf. ON *skera* 'cut, prick', OE *scear* 'plowshare', and for meaning Engl. 'stick, hew, cleave' (P 416-19).

The synonym *kuer-* is probably not related to the forms from **(s)ker-*. Explaining the initial *ku-*, which must be original, has proved difficult. The answer may lie either in Pisani's link (*Geolinguistica* 352) with IE **skew-* 'cut' (Skt. *skunāti* 'stir', IEW 954), with -r-extension as in Lith. *kiáuras* 'perforated', ON *skora* 'scrape', thus **(s)kw-er-*, or in a connection with IE **k^wer-* 'make' (IEW 641-42), with meaning influenced by *kars-* (Pedersen, *Hitt.* 128; T 607-11), but both approaches are semantically troublesome.

tuhs- 'cut off, finish' can be equated with Gk. *δέχομαι* 'be lacking', Ved. *dūśáyati* 'spoil, ruin', from IE **dew-H₁-s-* (Sturtevant, *Lg.* 18 [1942]: 23; T 215-16).

hattai- 'chop; strike' (Hier. *hat-*, Luw. *hattalla-* 'club', *hatali-* 'strike down', Lyc. *χttadi* 'smashes') resembles Arm. *hat* 'piece', *hatanel* 'cut' (Austin, *Lg.* 18 [1942]: 23; T 215-16).

happesnai- 'cut up (sacrificial animals)' may be literally 'dismember', if from *happessar* 'limb, body-part', seemingly from *happ-* 'join, attach', 12.22.

kukkurs- is reduplicative from *kuer-* (above; T 610), with -s- perhaps analogical from *kars-*.

ark- and *mark-* mean basically 'cut up' in the sense of 'divide' (and 'distribute'), see 12.232.

9.23 — KNIFE — Several types are known, all referred to by the basic sumerogram GÍR (*EHGl.* 53).

9.24 — SCISSORS — ^{URUDU}*zina* [*EHGl.* 77, 79).

9.25 — AXE, ADZE — *ates(sa)-* (*HASINNU*, *PĀŠU*) may well be cognate with OE *adesa*, Goth. *aqizi*, Gk. *ἄξις*, Lat. *ascia*, etc., and

also Akk. *hašinnu*; a likely international technical term; see P 227-28.

summittant- 'hatchet, axe' or the like may be **sm(e)y-t(o)nt-* < IE **smey-(t-)*, Gk. σμίλη 'knife', ON *smiðr*, NE *smith* (IEW 968), with epenthetic *-u-* as in *sulai-* 'lead' (9.68); cf. Knobloch, *Festschrift V. Christian* 66-67; *Kratylos* 4 (1959): 41.

9.26 — BREAK — *duwarnai-* was connected by Goetze (Lg. 30 [1954]: 403) with Skt. *dhvāraṭi* 'harm, destroy', and further explained as nasal present **dhwṛ-né-E₁-* in Oettinger, *Stamm.* Further comparison of Gk. θραύω 'break to pieces' also recommends itself, though the relation of IE **dhrew-* and **dhwer-(H-)* is problematic (IEW 274-75, 277).

Luw. *lawarr-* 'despoil, strip', also 'break (an oath)' (CHD 3.49) is equated with the root of *duwarnai-* as **dhw(e)rE₁-* in Oettinger (loc. cit.), with areal *t-/d- ~ l-* variation as in *Tabarnas/Labarnas*; EHS 61-64.

parsiya- means 'break', referring either to limbs (Oettinger, *Eide* 53, n. 5) or bread, in the latter case joined by ^{NINDA}*parsa-* (a kind of bread) and denom. *parsai-* 'crumble'. A possible root-connection is IE **bher-* 'cut, bore, shave', etc.: Gk. φάσσω 'split', OIr. *bern* 'gap, pass', *berrad* 'shave', Arm. *beran* 'mouth', Alb. *brimë* 'hole', Lat. *feriō* 'strike', ON *berja* 'bore', esp. Latv. *birzt* 'crumble' (IEW 133, EHS 503), with *-dh-* extension in Gk. πέσσω 'destroy', Skt. *bārdhaka-* 'cutter' (IEW 138). On the other hand, the *-s-* of the Hitt. form is matched better by OHG *brestan* 'burst; crack(le)', Lith. *braszkėti* 'crackle' < **bhres-* (IEW 169; cf. Knobloch, *Kratylos* 4 [1959]: 34; Tischer apud Oettinger, *Stamm.* 519, n. 15; here also OIr. *brissim* 'break?').

9.27 — SPLIT — *iskalla(i)-* 'split, slash, tear', etc. belongs with Gk. σκάλλω 'hoe', Lith. *skėlti*, Arm. *celum* 'split' (with doublet

skalim ‘splinter’ < Hitt.; cf. Schultheiss, KZ 77 [1961]: 222), ON *skilja* ‘separate’, Mlr. *scoiltid* ‘splits’ (Hrozný, SH 71) < IE **sk(e)l-H₂*- (IEW 923-27, P 413-14). Also related is H. ^{Giš}*kalmi*- ‘fire-log’ (Frisk, Kl. Schr. 57).

hatta(i)- ‘slice up, cut open’, see 9.22.

9.28 — TEAR — *iskalla(i)*- develops a meaning ‘tear’ from ‘split; slit’ (9.27), particularly with reference to garments; cf. NE *slit* as well as H. ^{TÜGiš}*iskallessar* ‘slit (or torn?) dress’ (P 414).

9.31 — RUB — The verbal root *pes-* (iter. *paski-*) is seen elsewhere in nominal derivatives for ‘penis’ (H. *pesna-*, Lat. *penis* < **pes-ni-*, Gk. πέος, πόσθη, Skt. *pásas* [4.492]), indicating that it may have served already in PIE times as a euphemism for ‘copulate’; as still in Lith. *pisti* (Oettinger, *Stammb.* 327), cf. Ital. *fregare*, etc.

wars(iya)-, 9.37.

IE **ter-* (Gk. τρέω, Lat. *terere*, *trīvī*, OCS *trěti*, Lith. *trinti*) appears perhaps, reduplicated, in H. *tattarai-* ‘scrub, scour’ (P s.v.).

9.32 — STRETCH — ‘Stretch’ is a collateral meaning of *ispar(r)-*, *isparriya-* ‘spread out’ (9.34), and ^{Giš}*ispar(r)uzzi-* ‘rafter’ is an exact semantic match for various technical senses of NE *stretcher* (P 441-47).

9.33 — DRAW, PULL — The most plausible source of *huittiya-*, also rarely *huit-*, is IE **Awedh-* ‘lead’ (OIr. *fedim*, Lith. *vedù*, OCS *vesti*, Avest. caus. *vādaya-*, etc.; IEW 1115-16), although morphological difficulties remain unaccounted for. The spelling *-tt-* is not explained by a suffix *-to-* (e.g. EHS 485, n. 2; Goetze, ANET 128), as **-dh-* + *-t-* would yield *-zz-* /*-tst-*/ (cf. Sturtevant, *Comp. Gr.*² 62). Further, **Awedh-* may appear instead in *wedai-*, *widai-* ‘bring’, cf. 10.62.

While it avoids these formal problems, Čop's connection with Skt. *vyáthate* 'totter, stagger', Goth. *wipon* 'shake' < IE **H₁wit-H-* 'shake' (*Indogermanica minora* 39-40) is semantically improbable. Cf. T 272-73.

9.34 — SPREAD OUT, STREW — Verbal forms are *ispar(r)-*, *isparriya-* (Luw. *par[r]iya-*), *isparnu-*. Of the two PIE quasi-synonyms **ster-(H-)* and **sper-(H-)*, only the latter survived in Hittite, absorbing the meanings of both, thus 'strew, spread, scatter' (Skt. *strñóti*, Gk. *στόρνῦμι*, Lat. *sternō*, Goth. *straujan*, OIr. *sernad* (< **st-*) vs. Gk. *σπείρω*, Arm. *sp'rem*, OE *sprædan*, etc.) and also 'spray' (OHG *sprīzan*) and 'stretch' (cf. *ispar[r]uzzi-* [9.32] : Lat. *sparus*, NE *spear*, *spar*). A further group of words meaning 'kick' and related notions (Ved. *sphuráti*, OE *spurnan*, Lat. *spernō*, Lith. *spirti*) is probably also involved (cf. 10.51), as is **(s)per-* 'fly' (< 'spread [wings]'); see P 441-47.

ishuwa(i)- 'scatter, throw, shed, pour' is likely related to Skt. *iṣṇāti*, *iṣṭá-* 'impel' (IE **E₁[el]y-s-A₁-*), via a noun **ishu(wa)-* (Skt. *iṣu-*, Av. *iṣu-*, Gk. *ῥίος* < **ῥιός* 'arrow'); cf. P 404-9.

suhha- is still obscure, Oettinger's attempt (*Stammmb.* 503) to derive it from *ishuwai-* being unclear.

suniya-, see 8.31 and 9.35.

9.342 — PRESS — *sai-*, *siya-* (also 'seal', cf. *siyattariya-*, denom. fr. *siyattar* 'seal') has 'press' as a common meaning beside 'throw; shoot'. For derivation (< IE **sē-*) see 8.31 and Laroche, *BSL* 58 (1963): 73-76. Pal. *si-* 'prod, urge; sting' (Melchert, *KZ* 94 [1984]: 25-27).

damas-, *dames-* 'press; oppress' has long been recognized (cf. Sturtevant, *Comp. Gr.*¹ 101, 124, 136) as a cognate of Gk. *δαμάω*, Skt. *dāmyati*, Lat. *domō*, OIr. (3 sg.) *damnaid*, Goth. *gatamanjan* < IE **demA₂-* 'tame' (IEW 199).

wesuriya- ‘oppress’ (HWb. 253-54), from an unknown **wesur-*?

9.35 — POUR — Hitt. *lahhu(wai)-* preserves the original sense ‘pour’ of IE **leA₁-w-*, **loA₁-w-*, which became ‘bathe’ in Gk. λούω (Myc. adj. *re-wo-te-re-yo* [λεφοτρειος]), Lat. *lavō*, Arm. *loganem*, and ‘basin’ in e.g. OIr. *loathar*, Gk. λοετρόν (Sturtevant, *Comp. Gr.*¹ 138; Benveniste, *HIE* 14-15). Related Hitt. forms are *lah-* and reduplicated *lilhuwai-*; CHD 3.4, 13-15, 59-60.

suniya-, secondarily ‘scatter; sow’, should be kept apart from *sunnai-* ‘fill’ (Laroche, *RHA* 31 [1973]: 91-93), but is otherwise obscure.

sip(p)and- (also spelled *ispant-*) is ‘to pour a libation’, whence also ‘sacrifice’, matching Gk. σπένδω, σπονδή, Lat. *spondeō* (Sturtevant, *Comp. Gr.*¹ 76), and seen also in the Arm. loanword *spand* ‘sacrifice’ (Schultheiss, *KZ* 77 [1961]: 225).

ishuwai- and *suhha-*, 9.34.

9.36 — WASH — The generic term *arr(a)-*, *arriya-* is cognate with Toch. A *yār-* ‘bathe’ (Couvreur, *Hett. H* 97; P 111-16).

Apart from *arr(a)-*, more specific terms abound. *war(a)p-* ‘scrub, bathe’ can be compared with OE *sweorfan* ‘scrub’, MHG *swerben*; W. *chwerfu* ‘whirl around, swirl’, etc., IE **(s)werbh-*, **(s)wr̥bh-* (Sturtevant, *Comp. Gr.*² 30, 46, 64).

tattarai- ‘scour’ may be from IE **ter-* ‘rub’, Gk. τρίβω, τρίβω; cf. 9.31.

sanh- ‘flush, wash down’ is from IE **senA₁-* or **sñA₁-*, with **sneA₁-* in Skt. *snāti*, Av. *snayeitē* ‘bathe’, Lat. *nā-* ‘swim’, OIr. *snáid* ‘swims’ (Puhvel, *Florilegium Anatolicum* 299-300 = AI 367-68).

mutai- refers to ritual flushing, often with mud or urine. This basic meaning of IE **mew-d-*, **mew-H-* (*IEW* 741-43) comes through also in OCS *myti*, Lith. *máudyti* ‘wash, bathe’, Gk. μυδάω ‘be wet’, Czech *mýdlo* ‘soap’, Skt. *mūtram*, Av. *mūθra-*, OIr. *mún* ‘urine’, *múr*,

NE *mud*; Lat. *mundus* ‘washed’; cf. AI 338-44. Cf. here also Hitt. *mūdan* ‘garbage, offal’, specified as food for pigs (Goetze, JCS 16 [1962]: 30, 33-34; Pisani, *Paideia* 22 [1967]: 404; P s.v.).

Further terms are *hurnai-* ‘spray’ < **H₁urn-yo-*, matching Gk. ῥαίνω (W. Petersen, JAOS 59 [1939]: 178-79; T 305-6), and *pappars-* ‘sprinkle’ : Toch. AB *pärs-* (Benveniste, BSL 33 [1932]: 142; Puhvel, *Florilegium Anatolicum* 299-300 = AI 367-68).

9.37 — SWEEP — *war(a)s-*, *warsiya-* is related to Lat. *verrō* ‘sweep, brush, scrape’, ORuss. *vrěšti* ‘thresh’, Toch. A *wsār* ‘grain-heap’ and other forms (IE **wers-*); cf. Benveniste, BSL 33 (1932): 137; AI 246-48.

The source of *an(a)s-*, *an(as)siya-* ‘wipe’ is unknown; P 74-76.

9.42 — ARTISAN, CRAFTSMAN — A lengthy and not altogether clear derivational trail leads from the root noun **hant-* ‘front’ (: Gk. ἄντι, Lat. *ante*, etc.; cf. e.g. Gusmani, *Lessico* 22), via adv. *handā* ‘correspondingly, accordingly’ (cf. Laroche, RHA 28 [1970]: 37), *handai-* ‘arrange, order, fit together’, part. *handant-* ‘arranged, built’, and denom. *handantiya-* ‘put together, build’ to deverb. *ha(n)dantiyalli-* ‘craftsman’.

Ideographic expressions are BĒL ^{GIŠ}TUKUL ‘tool master’, BĒL QĀTI ‘hand-master’, ^{LÚ}UMMEA.

9.422 — TOOL — ^{GIŠ}TUKUL.

9.43 — CARPENTER — ^{LÚ}NAGAR is the basic term for ‘smith, wright, serving for ‘carpenter’ when unmarked or as ^{LÚ}NAGAR IŠŠĪ ‘wood-wright’.

On Gk. τέκτων, Skt. *tākṣan*, etc. see 6.33.

9.44 — BUILD — The source of *wede-* is probably *u-/we-* ‘hither’ (cf. *HIE* 32-33) + IE **dheE₁-* ‘place’, with sense like that of Engl. ‘put together’ or Rum. *cladi* (e.g. Sturtevant, *Comp. Gr.*² 62; Oettinger, *Stammh.* 130 and n. 84-86). A competing derivation from IE **H₂wedh-* ‘fasten, bind’, Goth. *gawidan*, etc. (e.g. Pedersen, *Hitt.* 118; cf. Y. Arbeitman, *RHA* 31 [1973]: 103-4) is semantically unsatisfactory, as **(H)wedh-* means basically ‘to yoke’ and is probably ultimately identical with **(H₂)wedh-* ‘lead; marry’ (cf. the many senses of NE *wed* and *marry*); this root is seen in H. *uwate-* ‘bring’ (10.62) and *pehute-* ‘send’ (10.63). Other likely Anatolian kin of H. *wede-* are synonyms in Pal. *wete-*, Hier. *usa-*, Lyd. *vi-* (cf. Arbeitman, loc. cit.; Heubeck, *Lydiaka* 53).

Late Hitt. *parnawai-* is presumably borrowed from a Luw. *parnawayi-* (cf. Lyc. *prñnawa-* ‘build’, Hier. *parnawayi-* ‘serve’; Oettinger, *Stammh.* 382), denominative from *parn-* ‘house’ (7.12) in the manner of Lat. *aedi-ficare* or Gk. οἰκοδομέω.

9.48 — SAW — ^{URUDU}*ardala-* (also ^{URUDU}*kuruzzi-* < *kuer-* ‘cut’, 9.22) is the mythological ancient saw, used to cut apart heaven and earth in the myth of Ullikummi. With the help of the Hesiodic parallel (*Theogony* 180) ἄρπην καρχαρόδοντα, a cogent comparison of the verbal root *ard-* can be made with Ved. *rādati* ‘cut through, open; gnaw’, Lat. *rōdō* ‘gnaw’ and *rādō* ‘scrape, scratch’, from an IE **Hér-d-*, **Hr-éd-* (Puhvel, *P* 175; *Bi. Or.* 36 [1979]: 58).

9.49 — HAMMER — NÍG.GUL.

9.50 — NAIL — *tarma-* (Luw. *tarmi-*) is a wooden peg or plug (^{GIS}GAG), **tr-mo-* fr. **ter(-A)-* ‘go through, cross over’ (*IEW* 1074, 1075; likely the same as **ter-* ‘drill, wear out’, *IEW* 1071). Cf. Gk. τόρμος ‘socket; peg, pivot’, τείρω. The zero-grade form is seen also in OHG *drum* ‘Endstück’, and with different suffixes and

complementary meanings in OE *pyrel* 'hole' and *purh* 'through', with many other synonyms, notably Lat. *terminus*, Gk. τέγμα 'boundary' (Laroche, *RHA* 11 [1951]: 66-68). A denom. *tarmai-* means 'hammer; fasten; stop, plug up' (*HWb.* 215).

As an alternative to this etymology, Puhvel (P s.v.) adduces Skt. *dhárman-* 'support', Lat. *firmus* (IE **dher[-A₂]-* 'fasten, support' [IEW 252-55]), comparing the ritual expression *tarmai- mitai-* 'nail (and) fasten' with Lat. *castra mētāri* 'pitch camp'.

9.51 — BEAM — GIŠ.MAH.

9.53 — MASON — LÚNAGAR NA₄.

9.54 — BRICK — SIG₄ 'brick, tile' has been tentatively read as **kalpassana-*, on the basis of the possible allographic pair URUSIG₄-*nahila-* = URUKalpassanahila- (Goetze, *JCS* 18 [1964]: 92; *EHGl.* 29, n. 36; T 470); no etymology is offered.

9.55 — MORTAR — *salwina-*, of unknown origin, is guessed to be 'Mörtel aus Lehm und Häcksel' (*HWb.* 180).

9.60 — SMITH — Several sorts of ideographic designation are used: besides LÚSIMUG 'gold- and silver-smith' and LÚKÙ.DÍM 'gold-smith' (Akk. *kudimmu*), the term LÚNAGAR 'wright' is used alone and in combinations LÚNAGAR ŠA KÙ.BABBAR 'silversmith', LÚURUDU.NAGAR 'coppersmith'. *EHGl.* 82.

A possible cognate of NE *smith*, etc. is H. *summittant-* 'axe', 9.25.

9.64 — GOLD — GUŠKIN (Akk. *hurāṣu*).

9.65 — SILVER — Phonetic complements occurring with Sum. KÙ.BABBAR indicate a possible Hitt. reading *harkant-*, reflecting IE **A₁rĝ-nt-om*, originally ‘shining (metal)’, with cognates such as Avest. *ərəzatəm*, OIr. *argat*, *airget*, MW *ariant*, Lat. *argentum* ‘silver’ and Ossetic *ærzæt* ‘bronze’ (cf. *EHGL*. 80-81, n. 154; thorough discussion in J. P. Mallory – M. E. Huld, *KZ* 94 [1984]: 1-6).

9.66 — COPPER, BRONZE — The ideogram URUDU is generally read ^{URUDU}*ku(wa)nnan-* (cf. *HWb*. 300; Laroche, *RHA* 24 [1966]: 18-81), though the relationship of this term to ^{NA₄}*kuwanna(n)-* ‘jewel; lapis lazuli’ (6.72) is unclear. Perhaps *kuwanna(n)-* refers primarily to the dark blue or blue-green colors of lazurite, copper carbonate, copper oxide, etc.; cf. Gk. κύανος, κύανεος.

A separate term ZABAR denotes ‘bronze’, the Hitt. *harasu-* possibly from Akk. *hurāṣu* ‘gold’ (T 172).

9.67 — IRON — *hapalki-* (AN.BAR), an areal culture-word appearing also in Hurrian, Phoenician, and Akkadian, may also be related to Gk. χαλκός; cf. the city name ^{URU}*Hawalkina-* and Cretan καυκός (T 160-61; Laroche, *RHA* 15 [1957]: 9-11).

NA₄ KA.GI.NA ‘hematite’ may be Hitt. *lulluri-*, cf. Laroche, *RHA* 24 (1966): 177, 180, 184.

9.68 — LEAD — *sulai-*, *suliya-* (A.GAR₅) is best taken from IE **(s)lī-* ‘bluish, blue color’, seen e.g. in Lat. *līvēō* ‘be blue, shimmer’, OIr. *lí* ‘color, sheen’, OCS *slīva* ‘plum’, OE *slāh*, NE *sloe* (*IEW* 965), and applied to the metal secondarily in Hittite and Germanic (OHG *blio*, NHG *blei* ‘lead’: Lith. *blývas* ‘violet’ or *blāivas* ‘whitish’). Cf. Knobloch, *Kratylos* 4 (1959): 41; Neumann, *Festschrift J. Friedrich* 347-49. A dissenting vote is cast by Laroche (*RHA* 24 [1966]: 163, n. 8), rejecting Hitt. *suli-* < **slī-* (cf. Oettinger, *MSS* 35 [1976]: 101)

and adducing instead Gk. σόλος 'lump of iron' (adopted also by Gusmani, *Studi ... V. Pisani* 509).

9.69 — TIN — For the name of this metal (AN.NA, NAGGA, Akk. *anāku*) Hitt. used the nominalized adj. *dankui-* 'dark' (15.63); cf. Laroche, *RHA* 24 (1966): 180.

9.71 — POTTER — *huprala-* (LÚBAHÁR) is formed from the vessel-name *huppar* 'pot' (5.26) with action-noun suffix *-alla-*.

9.72 — MOLD — An unexplained verb *epar-*, posited in Neu, *Interpretation* 24, is read rather *ep-* 'smear, mold' in P 272-73, and compared with Gk. οἶφω, Skt. *yābhati*, Russ. *jebú* 'defile, pollute'.

9.73 — CLAY — Tischler (*HDW* 66) glosses *purut-*, *purutessar* as 'Lehm, Kalk, Mörtel', referring essentially to clay used as plaster or whitewash, with semantics as in NHG *Lehm*, NE *loam*, ON *leir*, Lat. *līmus* vs. NE (*bird*)*lime*, NHG (*vogel*)*leim*. Various possible cognates have been suggested. A connection with Lith. *puŗvas* was advocated by Bomhard (*RHA* 31 [1973]: 112), and Puhvel (P 273) favors Gk. φῶρω 'mix dry with wet', φῶράω 'mix dough', cf. Aeschylus γῆν φυράσειν φόνω. The *-t-* stem formation is unclear, "abweichend von den eigentlichen *t*-Bildungen" (*EHS* 256); N. Mkrtč'yan (*Acta Antiqua* 22 [1974]: 316-17) adduced Arm. *brut* 'potter', but here the possibility of a loan from Hittite cannot be ruled out.

halina- seems to echo the nasal-present stem in Hes. ἀλίνειν · ἀλείφειν and Lat. *linō* (pf. *lēvī*) 'smear', though the precise form (**A₁llino-*, *A₁lino-*) is uncertain (G. Neumann, *IF* 76 [1971]: 265; P s.v.).

H. *wilan(a)-* remains obscure, possibly of non-IE origin.

9.74 — GLASS — *zapzagai-* (also *zapzaki-*, *zapzigi-*) refers to the material 'glass' and vessels made from it. A culture-word of unknown ultimate origin, it resembles e.g. Ugar. *spsg* 'molten glass' and Hebr. **spsg* 'glaze' (HWb. 260).

Certain of the materials added to the basic sand to add color to the glass are known, e.g. URUDU 'copper' and *lulluri-* 'iron', but other names for ingredients and aspects of the glass-making process (e.g. *kirnuzi-* or *pisnuzi-*, *miyani-*, *muhlai-*, *tarzidu*; cf. HDW 120) are as yet unidentified.

9.75 — PLAIT — (*anda*) *talupp-* seems to mean 'plait' or 'wrap', etym. (and relation to *tarupp-* 'bring together', Oettinger, *Stammh.* 227-29) unclear; cf. EHS 479.

9.76 — BASKET — ^{GIŠ}*erhui-*, *irhui-* (^{GIŠ}MA.SÁ.AB) is usually viewed as a Hurrian loanword (HWb. 84). But IE origin is defended by Puhvel (*AI* 353-55, P 283-84), deriving it from IE **ǵH₁ú-* and comparing *arha-*, *irha-* 'line, boundary; row, circuit', etc., Lat. *ōra*, with a common denominator of 'edge, rim' and 'basket' in the notion of circularity, cf. Gk. *κάλαθος* 'basket' : H. *kaluti-* 'circle' (12.82).

^{GI}*pattar* and ^{GIŠ}*paddur*, although woven or plaited of reeds or wood strips, denote a shallow dish or bucket (5.31).

9.82 — SCULPTOR — ^{LÚ}NAGAR NA₄.

9.83 — STATUE — *esri-* (ALAM) is 'shape, form, likeness, image' (cf. OCS *tělo*), from IE **es-* 'be' + noun-forming *-ri-*, and appears also as ^{SI}*es(sa)ri-* '(wool)shape, fleece' (6.22); cf. P 313-15.

Luw. ALAM-*sa* = Luw. *tarusa(nt)-*, Hier. *tarusa* (Laroche, *RHA* 23 [1965]: 49); fr. *taru-* 'wood'?

sena- 'icon, puppet, model' or the like, etym. unknown.

9.85 — PAINT — *guls-* corresponds in usage to Akk. *ešēru* ‘draw’, commonly done with paint or (colored) pastes (*EHG*. 51, n. 85). The IE root is plausibly **g^wel-* ‘prick’ (Hom. βελόνη ‘point, needle’, Lith. *gėlti* ‘sting’, etc.; Carruba, *Beschwörungsritual* 34-38), with semantics as in Gk. γράφω ‘scratch’ > ‘draw, write’, γραφεύς ‘painter’, or Skt. *likh-* ‘scratch, write, draw, engrave, paint’. See further T 627-30.

9.87 — PAINTING, PICTURE — *gulzi-* is from *guls-* ‘draw’ (9.85), possibly *gul(s)-* + *-ti-* (Oettinger, *Stamm*. 203-4), sumerographically GIŠ.HUR (Akk. *uṣurtu*; *EHG*. 51, n. 85).

9.90 — THING — *uttar* (INIM) reflects **uk-t-r-* < IE **wek-t-(i)-*, cognate with OCS *vešti*, Goth. *waihts* ‘thing’, ON *vétrr* (NE *wight*), OE *wikt* ‘being’, OHG *ni-wiht* > NHG *nicht* ‘no-thing, not (at all)’; cf. Marstrander, *Caractère* 141-42; Sturtevant, *Comp. Gr.*² 71; *VLFH* 134; *AI* 221-22. It means also ‘matter for discussion, affair’, and finally ‘word’, with semantic shift exactly the reverse of *memiya(n)-* ‘word; thing’ fr. *memai-* ‘speak’ (18.21, 18.26). Cf. Pol. *rzecz* ‘thing’ : OCS *řečĭ* ‘speech’, NHG *sache* : OE *sacu* ‘lawsuit’, NE *thing* : ON *þing* ‘judicial assembly’; also Lat. *causa* vs. Ital., Sp. *cosa*, Fr. *chose*; Lat. *res*. Cf. also *kallar uttar* ‘evil spirit, demon’, 22.35.

9.91 — BE — Of the two IE roots for ‘be’, the Anatolian languages inherited only **es-*, which survives in Hitt. *es-*, Pal. *as-*, Luw. *as-*, Hier. *as-*, Lyc. *es-*, Lyd. *-im*. P 285-91, T 109-19.

9.92 — BECOME — *kis-*, iter. *kikkis-*, functions as the passive to *iya-* ‘make’, and seems best compared with Lat. *gerō* ‘carry out, do, make’ < **ges-* (cf. *res gestae*) (Laroche, *BSL* 53 [1958]: 179, n. 4). Less

probable connections with Gk. κίω 'go away', Lat. *cieō* 'set in motion', and others are discussed T 585-86.

The process of 'becoming' is productively expressed by the inchoative suffix *-es-*, e.g. *parkues-* 'become clean' < *parkui-* 'clean', *salles-* 'grow large' < *salli-* 'large'. The Latin inchoative *-ēscō*, etc. corresponds formally to the Hitt. iterative in *-ski-*.

No trace of IE **bheu-*, **bhu-* survives in Hittite.

9.94 — OUGHT, MUST — Modal auxiliaries of any kind are lacking in Hitt., and the notion of obligation is expressed with the simple indicative mood (e.g. ŠEŠ-[SU] NIN-ZU ^{SAL}ānninniyamin Ū.UL [dāi] 'a brother does not take his sister or cousin') or the imperative (DUMU-YA-ya kuin ^{DU}TU-ŠI temi kūn-wa-za hūmanza sākdu '[acknowledge] my son, [of] whom I, my Majesty, say "Let all recognize him!"').

9.942 — DUTY — Although a concise terminology for the concept does not seem to exist, the existence of an obligation is emphatically signalled in the texts (e.g. in treaties) by such statements as *nu-tta kāsa kie uddār ŠAPAL NIŠ DINGIR-LIM (= linkiai kattān) tehhun* 'Lo, I have placed these terms under oath (lit. 'life of the gods') for you'.

9.95 — CAN, MAY — *tarra-* (midd.) 'be able' is allied with *tarh-* 'overcome, conquer' (4.81), from **terA₁-o-* matching Skt. *tárate* 'cross, overcome', etc.; cf. *Stammb.* 299.

9.97 — DIFFICULT — *hatku-* may have this as a secondary meaning of 'tight, narrow' (12.62) fr. *hatk-* 'shut' (12.25); cf. NE "dire straits."

9.99 — ATTEMPT, ENDEAVOR — ‘Strive (for)’ is one of the attendant senses of *sanh-*, *sah(h)-*, basically ‘seek, go after’ (11.31; *AI* 367).

9.993 — HAPPEN — *kis-* is ‘occur’ as well as ‘become’, thus ‘come to pass’ (cf. Lat. *evenīre*, NHG *eintreffen*), 9.92.

Another verb with secondary sense ‘occur’ is *ar-*, primarily ‘stand, be stationed, be present’, etc. (12.15), fr. IE **er-*, **or-* ‘move, stir’.

MOTION; LOCOMOTION, TRANSPORTATION, NAVIGATION

10.11 — MOVE — *halāi-* ‘set in motion, thrust’, from **H₁lloy-* (pf. stem of root **H₁ley-*), corresponds to Gk. ἰάλλω ‘send forth’ (AI 252-62).

Transitive *arnu-*, 10.61.

10.12-10.13 — TURN; TURN AROUND — *nai-*, *niya-*, *neya-* ‘lead, send, turn’, also mpsv. ‘turn, direct oneself’, see 10.64.

Intrans. *weh-* (iter. *weheski-*), caus.-trans. *wahnu-* are best derived from IE **weyH₁-* ‘turn’, cf. Skt. *váyati* ‘plait’, *vyáyati* (*vī-*) ‘wind’, Hes. *υῖήν · ἄμπελον*, Lat. *vieō* ‘plait, bend’, Lith. *výti* ‘turn’, etc. (cf. Eichner, MSS 31 [1973]: 54; Götze - Pedersen, MS 74; Oettinger, *Stammb.* 115).

IE **wert-* has an indirect reflex in Hitt. (*aika*)*wartanna-* ‘(one) turn’, a technical hippological term, probably from Indic-speaking Mitanni through Hurrian, matching Skt. (*éka-*)*vártana-*; cf. also Ossetic *äwwardyn* ‘train horses’ (P 14).

A Hitt. cognate of Lat. *torqueō* ‘twist’, Toch. B *tärk-* ‘turn’ is H. *tarku(wai)-* ‘dance’ (10.44).

10.14 — WIND, WRAP — *hul(a)-* ‘wind, twist’ reflects an IE root **H₁wel(-H₂)-* denoting the twisting of wool-thread in spinning, as shown by its derivatives meaning ‘wool’ (6.22) and by ^{GIŠ}*hulali-* ‘distaff’. Further verbal relatives include Gk. *εἰλέω*, Lat. *volvere*,

Goth. *-walwjan* (: NE *wallow*), OCS *valiti*, Arm. *gelum*, etc. 'roll; wind; wrap' (DSS 665).

10.21 — RISE — *arai-*, *ariya-* renders an intransitive pf. (**E₁róy*[*H₂*]-) of IE **E₁r-éy*-(*H₂*)- 'stir, rouse', etc., cf. Gk. ὀρέω 'arouse, move', Arm. *ari* 'stand up!'. This *-hi*-conjugation form contrasts with the originally causative *-mi*-forms meaning 'raise' (10.22; Puhvel, JAOS 102 [1982]: 178; P 123-27).

Also in this semantic area are deadjectival *parkiya-* and *inch. pargawes-*, *parkes-* < *parku-* 'high' (12.31); the underlying *park-* matches Toch. A *pärk-* 'rise' (Puhvel, *Gedenkschrift Kronasser* 181).

The rising of the sun and moon is expressed by (*sarā*) *upzi*, with *upp-* possibly from IE *(*H₂*)*up(o)-*; Skt. *upa-* 'up, hither', Gk. ὑπό 'under', etc. (Sturtevant, *Comp. Gr.*² 39). In a similar construction occurs (*sarā*) *tiya-*, lit. 'step up' (*tiya-* 'step, walk', 10.45).

10.22 — RAISE, LIFT — *arai-*, *ariya-* (3 sg. pres. *araizzi*) appears to be etymologically causative (**E₁roy*[*H₂*]-*éye-ti*) from the same verb reflected intransitively in *arai-* 'rise' (10.21), like Goth. *ur-raisan* (NE *rear*, ON *reisa*, NE *raise*) vs. *ur-reisan* (ON *rísa*, NE *rise*), Lith. *kélti* vs. *kílti*, or Skt. *ut-thāpaya-* vs. *ut-thā-*. P 123-27.

Another causative (factitive) is *parkanu-*, fr. *parku-* 'high' (12.31).

sarā ep(p)-, *ser ep(p)-* 'pick up', cf. *HWb.* 41-42 and 11.14.

karp- 'pick up, lift; carry off; finish; finish off' (cf. Lat. *tollō*), probably < IE **grbh-* 'grab', cf. Skt. *gr̥bhñāti*, NE *grab*, OCS *grabiti* 'rob' (*IEW* 455; Sommer, in *HWb.* 101; T 513-14).

10.23 — FALL — The Hitt. verb is *mau(s)-*, *mu(wa)-*. It has been compared (e.g. Sturtevant, *Comp. Gr.*¹ 103-4; Eichner, *Flexion und Wortbildung* 84) with Lat. *movēre*, thus IE **mewE₁*-(*s*)- (or

**A₂mewE₁[-s]-?*; cf. Gk. ἀμεύσασθαι 'make progress'), thus perhaps preserving an early nuance of the PIE verb.

zappanu- and *zappiya-* 'fall drop by drop, drip' point to a verb *zapp(a)-*, as noted by Laroche (*RHA* 11 [1951]: 64-66), though his comparison with Gk. τήκω, Lat. *tābescō* 'melt away' is unlikely.

10.25 — THROW — *pessiya-* appears to be formed from *pe-* 'away' + *siya-* 'press, shoot', etc. 8.31; cf. Knobloch, *Kratylos* 4 [1959]: 40; Eichner, *Flexion und Wortbildung* 92; Oettinger, *Stammb.* 347-48). A different derivation, from a root **ens-*, meets with the uncertainty of the purported Skt. cognate *ásyati* 'throws' (Pedersen, *Hitt.* 151; cf. Walde - P. 1.134-35).

10.31 — BOIL — Intrans. *zeya-*, 5.21.

NHG *sieden*, NE *seethe*, etc. have been linked with Hitt. *suwa-* 'swell'; cf. 13.21.

10.32 — FLOW — *ar(a)s-*, Hitt. and Luw. *arsiya-*, are to be compared (since Sturtevant, *Lg.* 8 [1932]: 120) with Skt. *árṣati* 'flow', *rása-* 'liquid', etc. Gk. ἀπ-εράω 'pour out' helps specify the IE form as **E₁ér-s-*, **E₁r-és-* (P 170-72, T 66-67). Derived forms include caus. *ar(as)sanu-* and nouns *arsanu-* 'flow', *arsarsur-* 'stream' (1.36).

Skt. *sáрати*, *sísarti* are echoed in Hitt. **sesar-*, found in *sesariya-* 'strain, filter' and *sesarul* 'strainer' (Goetze, *Lg.* 30 [1954]: 403).

10.36 — SAIL — To refer to the notion of sailing, for which mode of transportation the Hittites would seem to have had little use, we have only the expression *arunan pariyan* (or *parranda*) *pai-* 'go beyond the sea'.

10.37 — FLY — IE **petE₁*- survives in Hitt. *piddai*- ‘run, flee, fly’, with e.g. 3 sg. pres. *pittaizzi* < **p(e)t(H)-āye-ti*, *piddai* < pf. **ptóE_ye-* (Puhvel, *Hethitisch und Indogermanisch* 212 = AI 359).

Other terms which might have been used secondarily for ‘fly’ are *isparr*- ‘spread’ (9.34) and *liliwabh*- ‘hurry’ (CHD 3.61, compared with Gk. λαλῶμαι ‘long for, crave’ in Petersen, AO 9 [1937]: 206-7).

10.38 — BLOW — *parai*-, iter. *pariparai*- ‘blow, breathe’, 4.51.

10.43 — JUMP, LEAP — *watku*- may represent /watkw-/, formed from a preverb *wo-* (Eichner, *Untersuchungen zur hethitischen Deklination*, Dissertation: Teildruck [Erlangen, 1974], p. 59) + IE **tek^w*- ‘run, rush’ (Čop, RHA 13 [1955]: 69). Root-relations could include skt. *tákti*, Av. *tačaiti* ‘rush’, OIr. *techim* ‘I flee’, Lith. *tekù*, OCS *teko* ‘run’, Goth. *pius*, OE *peow* ‘servant’ (lit. ‘runner’; cf. Skt. *takvāḥ*), etc. (IEW 1060).

10.44 — DANCE — The Hitt. term is very plausibly *tarku(wai)*- < IE **terk^w*- ‘twist, turn’ seen in Lat. *torqueō* ‘twist’, Toch. B *tärk*- ‘turn’, or perhaps **tṛk-u-* (Skt. *tarkú-*, Gk. ἄτρακτος ‘spindle’); cf. Oettinger, *Stamm*b. 223-26; AI 263). *taruwai*, if it means the same thing, may be a Luwianism (Götze, Lg. 15 [1939]: 117-18), though it is kept separate by Oettinger, loc. cit.

Gk. ὀρχέομαι is echoed in Hitt. *ark*- ‘copulate’, 4.67.

10.45 — WALK — For the usual *iya*- and *pai*-, see 10.47.

‘Walk’ or ‘step’ is rendered by *tiya*-, apparently from IE **(s)teA₂*- ‘stand; place’ (Götze - Pedersen, MS 69-70), specifically **(s)tA₂-(i)yé-* (Watkins, *Idg. Gr.* III/1 57); cf. *Stamm*b. 350).

10.46 — RUN — The most likely reconstruction for *huwai-*, *huya-* is **A₁w-éy(-H₂)-* (cf. Sturtevant, *JAOS* 50 [1930]: 128), pf. **A₁wóye* (> 3 sg. *huwāi*), cognate with Skt. *véti* 'set out for', Gk. ἔμμι 'rush', etc. (*IEW* 1123-24). An ultimate connection with **A₁w-eE₁-* 'blow' (cf. *huwant-* 'wind', 1.72) is problematic; cf. T 321-23. Related Anatolian forms are Pal. *huya-*, Luw. *huiya-*, Hier. 3 pl. pret. *hwaya(n)ta* or *hu(i)ya(n)ta*.
piddai- 'run, flee, fly', 10.37.

10.47 — GO — IE **ey-*, **i-* yields *i-*, known in Hitt. and Luw., e.g. 3 sg. pres. *iti*, imper. *idu* (cf. Skt. *éti*, *étu*). In Hitt. the originally iterative-durative *iyan(n)a-*, *iyan(n)iya-* also serves as a basic verb of motion (P 328).

The verb *iya-*, inflected mediopassively, largely replaces *i-* in Hitt. Though it has long been considered the Hitt. reflex of IE **yā-* (Hrozný, *SH* 39, so *DSS* 693; cf. T 343-44), the exceptionless spelling *i-ya-* (never *i-ya-a-*) argues against this approach (e.g. P 334-35), in favor of a thematic, deponential **eye-to-* < **i-* (cf. Ved. *ayate*).

Very common in Hittite are *pai-* 'go' and *ui-*, *uwa-* 'come', from *i-* plus the preverbs *pe-* 'thither, "hin"' and *u-*, *we-* 'hither, "her"' (cf. e.g. *HIE* 32-33; Knobloch, *Kratylos* 4 [1959]: 33). A parallel opposition can be seen in Russ. *pojítí* vs. *ujítí*, with unmarked *idítí*.

10.48 — COME — *ui-*, *uwa-*, with corresponding Luw. *awi-*; see 10.47.

10.49 — GO AWAY — The sense is expressed literally by *pai-*, 10.47. Other expressions are compounds, e.g. *arha ar-* 'get away' (*ar-*, 10.55).

10.51 — FLEE — A likely comparison for *pars-* is with Lat. *festīnō* ‘hurry’ (Knobloch, *Kratylos* 4 [1959]: 34), the latter apparently denominative from a **fers-tiōn*, with further cognates in Mlr. *bras* ‘quick’ (**bh̥rs-to-s*), W. *brys* ‘haste’, and possibly OCS *brŭzo* (**bh̥rs-ós*), Russ. *bórzyj* ‘quick’ (IEW 143).

huwai- ‘run’ (10.46) and *piddai-* (etymologically ‘fly’, 10.37) are also commonly used for ‘flee’, just as Engl. “run away” and “take flight.”

The object of flight, namely ‘to escape’, is denoted by Hitt. *ispart(iya)-*, IE **spr̥-dh-*; cf. Arm. *sprdem* ‘escape’, Skt. *spárdhate* ‘compete’, Goth. *spaurds*, OE *spyrd* ‘race (course), track’, Gk. *σπυρθίζω* ‘kick up’, Lith. *spárdyti* ‘kick’ (P 449-50, refs.). The basic sense is thus ‘(out)stretch’, IE **sper-* (9.34).

10.52 — FOLLOW — *appan tiya-* is literally ‘walk behind’ (10.45), *appan pai-* ‘go after’ (10.47).

10.53 — PURSUE — For Hitt. *parh-*, Oettinger (*Stamm* 213-14) reconstructs **bh(e)rA₁-*, as a transitive counterpart to intrans. Ved. *bhuráti* ‘jump about, twitch, tremble’, etc., rejecting an old comparison with Gk. *πορεύω* ‘convey, traverse’ (Hrozný, *HKB* 110, n. 1) < IE **per(-A)-* ‘lead, pass over’. Semantically the latter still seems preferable, though not entirely convincing; cf. e.g. Arm. *hord* ‘step on or in’, Goth. and OE *faran* ‘travel, get across’, Lat. *portō*, Gk. *περάω* ‘carry (across or through)’, Skt. *píparti* ‘lead, excel’ (IEW 816).

The sense of ‘chase’ inheres in *hurna-* ‘hunt’, 3.79.

Another expression is *appan ki-*, lit. ‘lie behind’, cf. 12.13.

10.54 — OVERTAKE — *appan ep(p)-*, literally ‘seize from behind’ (cf. Gk. *καταλαμβάνω*), 11.13.

10.55 — ARRIVE — *ar-*, *er-* is originally an intransitive perfect of IE **er-* ‘move, stir’, etc. (IEW 326-29), thus corresponding to the Ved. 3 sg. pf. *āra*. The iter. *araski-*, *arsaki-* (/arski-/) may match Ved. *ṛcchāti* ‘go to’, OPers. *rasatiy* ‘come to, arrive at’ (cf. P 108-10).

Also very common are compounds of preverbs and verbs of motion, including *uwa-* ‘come’ (10.48; cf. HWb. 238) and *tiya-* ‘step’ (10.45; cf. HWb. 223-34).

10.56 — APPROACH — The usual terminology employs the adverb *maninkuwan* ‘near’ (12.43), in composition with verbs *pai-* or *tiya-* ‘go’, or factitively as *maninkuwahh-*.

Also attested is the verb *salik-* ‘approach, touch’, etymology unknown.

10.57 — ENTER — As with most verbs of motion, the basic expressions are verbal phrases like *anda iya-*, *anda pai-* ‘go in’, *anda tiya-* ‘step in’.

10.61 — CARRY — A basic sense ‘transport, (re)move, deliver’ etc. underlies the many shades of meaning apparent in *arnu-*, a caus. (**r-new-/r-nu-*) to IE **er-* ‘move’, matching Skt. *ṛñóti* ‘arise’, Av. *arənoiti*, Gk. *ὄρνυμι* ‘rouse, set in motion’. Also important is the deriv. *arnuwala-* ‘displaced person, deportee’. P 162-67.

In most cases the notion of ‘carrying’ is expressed by the more directionally explicit verbs for ‘bring’, 10.62.

10.62 — BRING — The directional preverbs *u-* (*we-*, *wa-*) ‘hither’ and *pe-* ‘thither’ are much in evidence in pairs of verbs for ‘bring (here)’ and ‘send (away)’.

The basis of *uda-* ‘bring’ and *peda-* ‘take away’ is probably *dā-* ‘take’ (11.13; HWb. 168-69), less likely *dai-* ‘set, place’ (HWb. 236-37).

uwate- and its opposite *pehute-* can be analyzed as the same preverbs + IE **Hwedh-*, **Hudh-* 'lead' (Pedersen, *Hitt.* 131; Benveniste, *HIE* 38-39); OIr. *fedid*, Lith. *vedù*, OCS *vesti*, etc. (*IEW* 1115-16). This approach is rejected by others (e.g. Watkins, *Idg. Gr.* III/1 69), who prefer multiple preverbs (*pe-*)*hu-* + the verb *dai-* 'place' (12.12); discussion in Oettinger, *Stammb.* 125-26; Arbeitman, *RHA* 31 [1973]: 101-9).

wedai-, *widai-* may be a nonprefixed version of *uwate-* and *pehute-* < **(H)wedh-* (*Stammb.* 373-74), if not simply a variant of *uda-* (*HWb.* 256); cf. 9.33.

'Bring' is also a secondary sense of *piddai-*, primarily 'hand over, deliver, pay', etc.; see 11.21.

10.63 — SEND — *pehute-* and *peda-* are counterparts of *uwate-* and *uda-*, 10.62.

Another pair oppositionally marked with *pe-/u-* is *piya-* 'send away', *uya-* 'send hither' (*-mi-conj.*). The underlying verb may be IE **yē-* 'throw' : Gk. ἵημι (Gusmani, *Parola del passato* 16 [1961]: 107-12; *Stammb.* 348).

uppiya- also formed with preverb *u-* but lacking the opposite number with *pe-*, is derived on conjugational grounds (*hi-conj.*) from *pai-*, *piya-* 'give', 11.21 (*Stammb.* 489 and n. 80).

10.64 — LEAD — Hitt. *nai-*, *neya-* forms part of a Hittite-Indo-Iranian isogloss reflecting IE **ney-* (Skt. and Av. *nī-*, *nay-*). The original meaning was 'lead, conduct', as opposed to **(H)wedh-* (in Hitt. *uwate-*, *pehute-*; 10.62) 'take away by force' (and often 'marry'); cf. the detailed investigation in Benveniste, *HIE* 33-40.

Verbal compounds of *nai-* with *pe-* and *u-* mean 'drive away' and 'drive hither', 10.65.

10.65 — DRIVE — *penna-* ‘drive away’ and *unna-* ‘drive hither’ are from *nai-* ‘lead’ (10.64), as is the reduplicated (iterative) *nanniya-* ‘drive’ (HWb. 148-49), generally used of animals.

‘To drive a chariot’ may be the meaning of Luw. *tars(a)i-* (DLL 94) or *tarsyai-* (Stammmb. 383), source unknown.

elaniya- is glossed ‘drive (to extremities), assail, plague’ in P 268-69, formed from an action noun **elatar* (parallel to *tiyaniya-* < **tiya-tn-iya-* < *dai-*, *tiya-*, lit. ‘beset’), postulating a verb **el(a)-* corresponding to Gk. ἐλάω, ἐλαύνω, both ‘drive’ and ‘persecute, plague’ (cf. Benveniste, *Origines* 112).

10.67 — PUSH, SHOVE — *suwai-* ‘push, push out, expel’ is usually compared with Skt. *suvāti*, Av. *hav-* ‘set in motion, impel’, IE **sew(-H₂)-* (e.g. Stammmb. 297-98 and refs.).

A connection of *hurutai-* ‘knock over’ with IE **(H)wert-* ‘turn’ is possible (T 314, 312-313); the meaning would be ‘(over)turn’.

Several quasi-synonyms may also be mentioned, e.g. *sai-*, *siya-* ‘press, seal; shoot’ (8.31; cf. ON *þrysta*), *pessiya-* ‘throw’ (10.25), and *elaniya-* ‘drive, assail’, etc. (10.65).

10.71 — ROAD — *itar* (KASKAL, Akk. *harrānu*) is an ancient heteroclitic neut. **i-tṛ*, matching Lat. *iter* and Toch. A *ytār* ‘way’ (Benveniste, *Origines* 10, 104; P 493-94).

10.72 — PATH — KA.GÌR. *urki-* ‘track(, path?)’ was derived from IE **wer-* ‘find’ (IEW 1160) by Kronasser (EHS 211).

10.73 — STREET — KASKAL GAL.

10.74 — BRIDGE — *armizzi-* (denom. *armizziya-*) has so far been provided with no definitive etymology. Tischler (T 63-64) opts for areal culture-word status, comparing Neo-Babylonian *arammu*

‘Erddamm, Landungsteg’ (with “Hurrian” -izzi-), and abandoning his promising earlier adduction (KZ 86 [1972]: 277) of IE **rem-* ‘support, rest on’, OHG *rama* ‘prop’, Norw. *rand* ‘crossbeam’, *rande* ‘embankment’ (IEW 864), with parallels in OCS *mostŭ* ‘bridge’ : ON *mastr* ‘pole’ and ON *brú* ‘bridge’ : OCS *brŭvŭno* ‘beam’ (P 161-62). Further suggestions *ibid.*

For a reinterpretation of Gk. γέφυρα and connection with Hitt. *epurai-* ‘besiege, dam up’ see AI 293-99, P 282-83.

10.75 — CARRIAGE, WAGON — ^{GIŠ}*huluganni-* apparently refers to the royal ‘coach’, and is a foreign technical loanword, to judge from OAssyr. *hu/ilukannum* (T 283).

^{GIŠ}*tiyarit-* (^{GIŠ}MAR.GÍD[.DA], Akk. *šumbu*) is a ‘wagon’ for carrying loads (HWb. 285), formally unexplained, though a connection with *tiya-* ‘step’ seems likely; cf. also ^{GIŠ}GIGIR.HI.A *tiyauwas* ‘standing-chariots’, ^{GIŠ}*asannas* ‘sitting(-chariot)’, ^{GIŠ}*asnatyawas* ‘sitting-/standing-chariot’ (P 296, T 84-85).

The war-chariot is ^{GIŠ}GIGIR (Akk. *narkabtu*), Hitt. reading unknown.

10.76 — WHEEL — ^{GIŠ}*hurki-* (^{GIŠ}DUBBIN, ^{GIŠ}UMBIN) is from **H₁wr-g-*, IE **H₁wer-* ‘wind, twist, turn’ (IEW 1154-55), cognate with Skt. *vrj-* ‘twist’, OE *wrencan* ‘wind’, etc. (AI 218, T 303-4). Cf. 21.15.

10.78 — YOKE — *iuga-* (ŠUDUN), nom.-acc. sg. *iugan*, faithfully reflects IE **yugóm* and matches Skt. *yugám*, Lat. *iugum*, Goth. *juk*, Gk. ζυγόν; OCS *igo* ‘gate’, etc.; cf. also Toch. A *yokām* ‘gate, door’ (P 495-96, T 448-49). An etymologically identical homonym is *iuga-* ‘yearling’, *tāiuga-* ‘two-year-old’, also adj. *iugassa-*; see P 496-99 and T 449-52.

10.81 — SHIP — ^{GIŠ}MÁ (Akk. *eleppu*).

10.83 — BOAT — ^{GIŠ}MÁ.TUR.

10.86 — RUDDER — Virtually the only maritime terminology that survives in the texts of these largely land-bound people (besides *winat*, of unknown meaning) is the (Luwian?) word (acc. pl.?) *pintanza*, probably ‘tiller’: *n-at-kan* [2]-*el-us-pat* ANA ^{GIŠ}MÁ *sarā pāir* ^DGIŠ.GIM-as ¹UR.ŠA.NA.BI-iss-a nu ¹UR.ŠA.NA.BI-is “*pintanza*” ŠU-za *epta* ‘the two boarded the ship, Gilgameš and Uršanabi, and U. took the *p.* in his hand’. Intriguingly, it recalls the Engl. nautical term *pintle* ‘rudder-pin’ < IE **bend-* (IEW 96).

POSSESSION, PROPERTY, AND COMMERCE

11.11-11.12 — HAVE; POSSESS — *har(k)-* ‘have, hold’ also functions as the auxiliary verb in the formation of periphrastic perfect and pluperfect tenses. Long connected with Gk. ἀρκέω ‘ward off’, Lat. *arceō* ‘shut in’, Lith. *rakinti* ‘shut’, etc. (IEW 65-66; e.g. Sturtevant, *Lg.* 6 [1930]: 215), it reflects IE **A₁erk-* (cf. T 173-74). The reflexive *-za har(k)-* is ‘have by or with oneself, possess’ (HWb. 56).

The common IE dative(-locative) of possession occurs in Hitt., as does an ethical dative; possession is also indicated by the genitive case; cf. Friedrich, *Elementarbuch* 121.

11.13 — TAKE — Hitt. *dā-*, Hier. *ta-* belong etymologically with Gk. δίδωμι, Lat. *dō*, OCS *dati*, Skt. *dā-*, Arm. *tam*, Alb. *dhanë*, etc. ‘give’ (11.21), all from IE **deA^w₂-* (Götze - Pedersen, MS 68; cf. e.g. Puhvel, *Evidence* 89 = AI 135). On the reciprocal nature of gift-giving among the Indo-Europeans see Benveniste, *L’année sociologique*, 3ème série (1951): 7-20.

11.14 — SEIZE, GRASP — *ep(p)-*, *ap(p)-* is almost universally derived from an IE **Eep-*, and compared with Skt. *āpnóti* ‘reach, obtain’, Lat. *apīscor* ‘attain’, *co-ēpī* ‘began’, etc. (IEW 50-51, T 107-8). Rejecting this etymology, Puhvel (P 281-82) connects *apīscor* rather with Hitt. *hap(p)-* ‘join, attach’ (12.22), and reconstructs for *ep(p)-* simply IE **ep-*.

Constructions with preverbs serve for more nuanced expressions, e.g. *anda ep(p)*- ‘capture’, lit. ‘take in’.

11.15 — HOLD — *har(k)*-, 11.11.

11.16 — GET, OBTAIN — *arha ep(p)*- is a secondary meaning from literal ‘take away’; cf. also *sarā dā*- ‘take up, take possession of’ (HWb. 202).

Doubts on the relationship of Skt. *āp-*, Av. *ap-*, and especially Lat. *apīscor* (> *adipīscor*), are voiced in P 281-82.

11.17 — KEEP, RETAIN — *kurk*- ‘preserve, retain’ may be from IE **k_{ur}-(k)*-; Avest. *surī*- ‘skin’, Lith. *šárvas* ‘armor’, from **k_{wor}*- seen in ON *hvarmr* ‘eyelid’; cf. Hitt. *kurkessar* ‘surface’? (Čop, Ling. 2 [1956]: 20-22; T 649-50), although neither semantically nor formally compelling.

11.21 — GIVE — With the specialization of IE **deA^w₂*- to ‘take’ in Hitt. *dā*- (11.13), the vacated semantic slot was filled by *pai*-, *piya*- (Hier. *pa*-), perhaps from *pe*- ‘away’ + an **ai*- (**H₂ey*-) as in Toch. *ai*- ‘give’ (Götze - Pedersen, MS 63). Addition of the deverbative suffix *-anniya*- yields *piyanniya*- ‘beschenken’ (Stamm. 81).

A further derived form is *piddai*- ‘deliver, pay’ (11.65).

11.22 — GIVE BACK, RETURN — *appa pai*-, lit. ‘give back’.

11.23 — RESTORE — *appa taninu*- ‘set back in order, reestablish’, etc., fr. *taninu*- ‘arrange, set in order’. Oettinger (Stamm. 29, n. 24) considers it a possible (causative) derivative of *taniya*- (of unknown meaning), but makes no attempt at an etymology. A

connection with IE **ten-* 'stretch, extend, last', etc. (IEW 1065) might be considered; cf. Lat. *tenēre* 'keep, preserve, maintain', etc.

anda sarnink- and *parā sarnink-* 'set right, compensate', with *sarnink-* 'atone for, make good', corresponding to noninfixed Lat. *sarciō* 'mend, make good' (*noxiam sarcire*); Juret, *RHA* 2 [1933-34]: 251).

11.24 — PRESERVE, KEEP SAFE — *pahs-* 'protect' is from IE **peA₁-*, cognate with Skt. *pā-* 'protect', Lat. *pascō* 'feed, support', Goth. *fōdjan*, OE *fēdan* 'feed' (also Gk. ποιμήν, Lith. *piemuō* 'shepherd', Skt. *pāyú-* 'protector', Gk. πῶς 'flock' < **poA₁-i-*; cf. IEW 787), with *-s*-extension (or originally *s*-aorist) in Lat. *pāstor* 'shepherd' and OCS *pasti* 'put to pasture' (Pedersen, *Hitt.* 187; Oettinger, *Stamm.* 212). *HWb.* 153.

sakuwai- 'watch over', 15.52.

11.25 — SAVE, RESCUE — *huisnu-* is causative from *huis-* 'live' (4.74), meaning basically 'make live, bring to life'.

huldalai- 'schonen, verschonen' is read as denom. to a **huldala-* (EHS 480) seen in ^{LÚ}*huldala-*, speculatively 'protector, watcher' (T 282). The underlying **huld-* was compared by W. Petersen (*JAOS* 59 [1939]: 179) with Gk. ἔλδομαι 'wish, long for', thus **H₁w(e)ld-*.

11.27 — DESTROY — *harganu-* (iter. *harganuski-*) is a causative to intrans. *hark-* 'perish', cf. 4.75.

hallanniya- 'lay waste, ravage' is from a stem *hall(a)-*, reflecting **halna-* < **A^w₂l-n-éA^w₁-* and comparable with Gk. ὀλλῦμι < **ὀλ-vu-* (P s.v.; cf. A. Bernabé P., *Revista española de lingüística* 3 [1973]: 435-36). Further connection of ὀλλῦμι with Hitt. *hulla-* 'strike' (9.21) is unlikely.

The Hitt. and Luw. military term *hasp(a)-* 'destroy, pillage' is etymologically obscure; cf. *DLL* 44, *EHS* 408, 589.

karap- 'devour; destroy', 5.11.

11.28 — HARM, INJURE, DAMAGE — *hunink-* is derived from *huek-* 'slaughter' (4.76), cf. Lat. *nocēre* : *necāre*.

Athematic *huwap(p)-*, *hup(p)-* 'treat badly' could be from the same IE **H₁wop-* seen in Goth. *ubils* 'evil' (**H₁up-élo-*; Juret, *Vocabulaire* 58; Watkins, *Idg. Gr.* III/1 30).

The factitive *idalawahh-* 'treat badly', fr. *idalu-* 'bad' (16.72), parallels such usages as Fr. *faire mal*, as does *idālu iya-* (cf. Engl. "do someone wrong").

11.29 — SPOIL — A verb *kurkuriya-* 'verstümmeln', from the verbal abstract *kurkurai-* 'wound, injury' (Laroche, *BSL* 52 [1967]: 76; *EHS* 204-5), seems to be based on the (reduplicated) root *kuer-/kur-* (9.22; T 652).

11.31 — SEEK — *sanh-* is from IE **sen-A^w₂-*, seen also in Skt. *sanóti* 'gain' and Gk. ἀνύω 'achieve' (*IEW* 906; Kuryłowicz, *Études* 73; Sturtevant, *Comp. Gr.*¹ 133; Pedersen, *Hitt.* 185; cf. Puhvel, *Evidence* 91 = *AI* 137; *Florilegium Anatolicum* 299 = *AI* 367), with the Hitt. verb perhaps testifying to an original nuance. Corollary meanings of *sanh-* are matched in the cognate OHG *sinnan* 'strive for' and OE *sinnan* 'care about' (T. L. Eichman, *KZ* 87 [1973]: 269-71). Possibly borrowed in Arm. *šah-* 'win, gain' (Schultheiss, *KZ* 77 [1961]: 221).

11.32 — FIND — A suggested analysis of *wemiya-* is *u-* 'hither' + the **em-* of Lat. *emō*, Lith. *emù* 'take' (Pedersen, *Hitt.* 82).

11.34 — RELEASE — Notions like 'untie, unbind, detach, set free; remove' are expressed by *lā-*, *lai-* (*DU*₈; *CHD* 3.1-4). Some

connection with IE **lew(-s)-* (Gk. λύω; OE *lēas* 'loose', etc., *IEW* 681) seems possible.

For *tarna-* 'let, allow, permit, st loose', etc. and *tala-*, *daliya-* 'leave (alone)' see 12.18.

tattaluski- may be specifically 'release' or 'ransom', used of prisoners; *HWb.* 219).

11.41 — PROPERTY — 'Property, valuables, wealth', among other things, is denoted by *assu-*, nominalized adj. *assu-* 'good, dear, agreeable, favorable, valuable' (16.28 and 16.71; P 199-202), thus equivalent to Lat. *bona*, Fr. *biens*; NE *goods*.

11.42 — WEALTH, RICHES — *assu-*, see 11.41.

iyatar, an abstract noun from *iya-* 'go' (10.47), represents 'plenty, prosperity' in the sense of 'fertility'; cf. Puhvel, *AJPh.* 104 (1983): 226-27; P 351-52.

Luw. *happinatt-*, see 11.51.

Lat. *ops*, *opēs*, see 11.51.

11.43 — MONEY — The standard medium of exchange was silver, hence the name of this metal (9.65) and that of 'currency' were equivalent—cf. Gk. ἄργυρος. The prices of various commodities (livestock, meat and skins, land and produce, textiles, and copper) are fixed in terms of the silver standard, and recorded in the Laws; cf. Gurney, *The Hittites* 84-87.

11.44 — COIN — Rather than coinage, trade in early Anatolia was carried on with silver bars or rings, measured by weight by the shekel (GÍN).

11.45 — PURSE — A leather bag or pouch (^{KUŠ}A.GÁ.LÁ) may have served to carry small amounts of money, as did the 'purse'

denoted by Lat. *bursa*, Fr. *bourse*, MHG *burse*, etc.; cf. Hitt. ^{KUŠ}*kursa-* (4.12).

11.48 — HEIR — IBILA (Akk. *aplu*).

A term for legally assigned (as opposed to natural) 'inheritance' or 'dowry' is *iwaru-*, probably akin to (Nuzi) Akk. *ewuru* 'heir' (E. Speiser, *JAOS* 55 [1935]: 436); cf. P 502-4.

11.51 — RICH — *happina(nt)-* matches Lat. *opulentus* (with dissimilation) < IE **H₁op-en-o-(nt)-*, from the stem seen in Lat. *ops*, RV *ápnas-* 'wealth', Av. *afnahvant-* 'wealthy', ON *efni* 'substance' (pl. 'means'), Gk. ὄμπνη 'nourishment', possibly ἄφενος 'wealth', etc. (*IEW* 780; refs. T 157-58). Derivs. *happinahh-* 'enrich', *happines-* 'get rich'; also related are Luw. *happinatt-* 'wealth' and Hitt. *happir-* 'trade; payment, price' (11.87), *happarai-* 'trade, sell' (11.83), *happir(iy)a-* 'town' (19.15).

Lat. *dīves* is cognate with Hitt. *asiwant-* 'poor' (11.52).

11.52 — POOR — Like many of its IE synonyms, Hitt. *asiwant-* 'poor' (*asiwantē[s]-* 'become poor', *asiwantatar*, Luw. *āssiwantattanassi-* 'poverty') means literally 'un-rich', reflecting **h₂-dyew-* + *-ant-* (thus roughly /adžiwant-/ or /ažiwant-/ 'not divinely endowed'; cf. Lat. *dīves* 'rich' (Jucquois, *RHA* 22 [1964]: 87-89; *AI* 266 and n. 34-35; P 211-12). An apt semantic parallel is OCS *ubogŭ*, *nebogŭ* 'poor' vs. *bogŭ* 'god'; cf. OPers. *baga* 'god', Ved. *bhāga-* 'good fortune; dispenser'.

11.53 — BEGGAR — In sufficiently dire straits the ^{LÚ}*asiwant-* 'poor man' (^{LÚ}MAŠ.EN.KAK, ^{LÚ}MAŠDÁ) could no doubt be forced to take up this occupation; cf. OE *wædla*, Lith. *ùbagas*, Russ. *niščij*, Skt. *dáridra-*.

11.56-11.57 — STEAL; THIEF — *tāya-* belongs with the group of words for 'thief' from IE **(s)teA₂-y-*, Skt. *(s)tāyú-*, *stená-*, Av. *tāyu-*, OCS *tati*, OIr. *táid*, with OCS *tajiti* 'hide', etc. (DSS 790; HWb. 203). *tayaz(z)il-* and *dayawar* are 'theft, larceny'.

'Thief' is expressed by the genitive *tayazilas* '(person) of theft'.

11.65 — PAY — *piddai-* 'pay; hand over; bring', etc. is denominative from *pitta* 'gift, giving; grant', neut. pl. of an action noun **piyatt-* from *pai-*, *piya-* 'give' (11.21; Puhvel, *Hethitisch und Indogermanisch* 213-14 = AI 360-61).

A root **kus-* is suggested by *kussan-* 'wages' and derivs. (11.78), and may appear in 1 sg. pret. *kushahat* (cf. T 672).

sarnink- 'settle (i.e. accounts)', 11.23.

11.66 — ACCOUNT, RECKONING — *kappuwawar* 'counting, reckoning', neut. abstract from *kappuwai-* 'count; take into account'. The latter's origin is disputed; perhaps (with Pisani, *Paideia* 8 [1953]: 307-8) *katt(a)* + **puwa-* 'mark, designate' (as in *puwatti-* 'label, mark of ownership'; cf. EHGL. 56-57, n. 103; Hoffner, *JAOS* 87 [1967]: 300-3), thus 'mark off, tally, count'. Somewhat less plausible is a comparison of a *u*-stem **kapu-* with ON *kópa* 'stare, gape', OE *cēpan* 'regard, desire, care for' (NE *keep*), Russ. *zabota* 'care, trouble', IE **g^heHb-* (*IEW* 349; Duchesne-Guillemin, *TPS* 1946: 77, comparing for meaning Skt. *cāṣṭe* 'appear, show' : Av. *ahaxšta-* 'innumerable', Toch. A *kaś*, B *keś* 'number'). Further suggestions T 494-96.

11.67 — SECURITY, SURETY — To 'seize as surety, distrain' is *appat(a)riya-*, from *appatar* 'seizure' < *ep(p)-* 'seize' (11.14); similarly Lat. *pignoriscapio* 'distrain' < *capere*, OIr. *athgabál* 'id.' < *gab-* (P 98-99).

11.69 — TAX — The verbal noun *taksessar* is 'tax, tariff' < *'agreement', from *takk(e)s-* 'agree' (6.33).

11.71 — INCOME — *MELKITU*, see 8.41.

11.76-11.77 — RENT, LEASE; HIRE — *kussaniya-* is denominative from the *n*-stem *kussan-* 'wages, pay' (11.78), semantically matching Gk. μισθοῦμαι, NGk. μισθώνω, and possibly providing an etymology for OE *hȝrian*, MHG *hūren*, etc. (11.78).

11.78 — WAGES, PAY — *kussan-* 'wages, pay; price' is best compared with OE *hȝrian*, *hȝr*, MLG *hūren*, *hūre*, etc. '(to) hire' < **hūz-ijōn*, IE **kuHs-* (cf. Goetze, *Lg.* 30 [1954]: 403; Čop, *Die Sprache* 3 [1954]: 135-38; Bomhard, *RHA* 31 [1973]: 113).

IE **ĝews-* 'choose, enjoy' does not plausibly belong here, but it may be the source of Hitt. *kusata-* 'bride-price', often connected with *kussan-* (cf. T 673-74; see 2.63 and Weitenberg, *IF* 80 [1975]: 66-70).

Derivs. are *kussaniya-* 'hire' and *kussan(iy)atalla-* 'soldier, mercenary' (20.17); cf. also Lyc. *qehñ*.

11.81 — BUY — *was-* reflects the IE verbal root **wes-* 'buy' (*IEW* 1173) on which are formed Skt. *vasná-*, Lat. acc. *vēnum* (**wés-no-*), Hom. ὠνοϝ (**wos-no-*), Lesb. ὄννᾱ (**wes-neA-*) 'price'; *DSS* 818.

11.82 — SELL — *us(sa)niya-* < **w(e)sne-yé-*, corresponding to Skt. *vasnayāti* 'bargain, dicker' (Puhvel, p.c., comparing Lat. *vendō* 'put up for sale' < **wesnom* + *dhē-*, with Hitt. *wa-* ~ *u-* of inner-Hitt. relevance, like *iyazi* ~ *izzi*; cf. Oettinger, *Stamm*b. 430).

11.83 — TRADE — *hap(pa)rai-*, *happirai-*, *hap(pa)riya-* (cf. Lyc. *epirije-* 'sell') is denominative from *happir-*, *happar-* 'business, trade',

also 'price, payment', from the stem **H₁op-* found in *happina(nt)-*, Lat. *opulentus*, etc. 'rich' (see 11.51). Nominal parallels are Ved. *ápas-* 'deed', Lat. *opus* 'work'; cf. E. Sapir, *Lg.* 12 (1936): 179; T 161-62.

happar iya- 'ply trade' is quotable as well; cf. Puhvel, *Bi. Or.* 36 (1979): 56-57.

11.84 — MERCHANT, TRADESMAN — *unattalla-* (^{LÚ}DAM.GÀR, Akk. *damqaru*) probably represents an agent noun in **-tel-yo-* or **-ter-lo-* from *unna-* 'drive' (> 'bring towards') (EHS 175-76).

11.85 — MARKET(PLACE) — KI.LAM.

'Market, place of trade' was the original meaning of *happir(iy)a-* 'town' (19.15).

11.87 — PRICE — *kussan-* 'wages, payment' (11.78) easily shades over into this meaning; cf. OIr. *lóg* : Goth. *laun* 'wages'; Skt. *arghá-*, Av. *arəjah-*, NPers. *arz* : Lith. *algà* 'wages'.

happir- 'business, trade', also 'compensation, price' (11.83, P s.v.).

SPATIAL RELATIONS: PLACE, FORM, SIZE

12.11 — PLACE (sb.) — *peda-* (KI, Akk. *ašru*) matches Gk. *πέδον* ‘ground’, cf. OCS *podŭ* ‘ground’, Lith. *pādas* ‘sole’, etc. (IEW 790; HWb. 168).

12.12 — PUT (PLACE, SET, LAY) — The pf. stem **dhoE₁-* < IE **dheE₁-* (Hitt. *tiya-*, Gk. *τίθημι*, Lith. *padeti*, Skt. *dhā-*, Toch. A *tā(s)-*, B *tes-*, etc.) yields Hitt. *dai-* (cf. e.g. Puhvel, *Evidence* 91-92 = AI 137-38; Oettinger, *Stamm.* 482-83); Hier. *duwa-*, Lyc. *ta-*. From the zero-grade root **dhE₁-ske-* comes iter. *zikki-* (plus resuffixed *zikkiski-*) ‘lay (to), set (to), begin’ (HWb. 260-61; cf. Petersen, AO 9 [1937]: 214, reconstructing **dhē-k-* and comparing Lat. *fēcī*, Gk. *ἔθηκα*).

tittanu- ‘set in, install’, if not from IE **dheE₁-* (**dhi-dhE₁-*; cf. Watkins, *Flexion und Wortbildung* 376 and Gk. *τίθημι*, Skt. *dādāhāmi*), may alternatively reflect IE **(s)teA₂-* ‘stand’ (ἵστημι, *tīṣṭhāmi*; Sturtevant, *Comp. Gr.*¹ 78), causative like Goth. *(ga)satjan*, *(ga)lagjan* (NE *set*, *lay*) or NHG *stellen* < **stall-jan* < IE **stel-*. Other, inner-Hittite explanations derive it from *tittiya-* ‘set up, establish’ (< **dhi-dhE₁-ye-* or reduplicative fr. *tiya-*; Van Brock, *RHA* 22 [1964]: 142-44, 152; Oettinger, *Stamm.* 350, 347) or by reduplication from **ta-* (EHS 459).

asas-, *ases-* (caus. *asesanu-*) is literally ‘make sit’, causative from *es-* ‘sit’ < IE **ēś-* (12.13), cf. Goth. *(ga)satjan*, NE *set*; P 207-11, EHS 570. Cf. also Hier. *asanuwa-/isanuwa-*, 12.13.

sazki- is iter. from a **sat-*, **sad-*, which was derived from **sod-éye-* ‘make sit’ < IE **sed-* by Eichner (apud Oettinger, *Stamm.* 329); although the text (*HAB* II 58-59, quoted *ibid.*) seems to indicate a meaning more like ‘push’ (cf. *HWb.* 189), the etymology might still be valid.

12.13 — SIT — IE **ēs-* (**E₁e[E₁]*s-) survives in Hitt. stative *es-*, *as-* ‘sit’, (esp. -*za es-*) ‘sit down’, also trans. ‘settle, inhabit’ (Hier. *as-* vs. caus. *asanuwa-/isanuwa-* ‘establish, install’), with numerous derivs.; T 110-11, P 291-300.

The complementary IE root **sed-* may appear in Hitt. *sisd-* ‘rest’, if from *si-sd-e-* (O. Carruba in *HWb.* Erg. 3 s.v.; Oettinger, *Stamm.* 216).

12.14 — LIE — Stative *ki-* (Pal. *kī-*) functions as passive to *dai-* ‘put’ (12.12), as its cognate Gk. *κεῖται* (= Skt. *śéte*) does to *τίθημι*, in a suppletive relationship limited to those IE branches (Anatolian, Greek, Indo-Iranian) that also exhibit the root **ēs-* ‘sit’ (Hrozný, *SH* 35; cf. Gusmani, *Lessico* 47, refs. T 568-69).

A survival of IE **legh-* is probably Hitt. *lak-* ‘fall over’ and ‘turn’, especially in phrases such as *istamanan* (*parā*) *lagan hark*, lit. ‘hold (your) ear turned toward’, i.e. ‘listen!’; cf. caus. *laknu-* ‘knock over, fell, bend’, etc., *lilak-* ‘fell, cut down’, *lagan* ‘bent, inclination, disposition’ (*CHD* 3.17-18, 19-20, 58; Sturtevant, *Comp. Gr.*¹ 118).

12.15 — STAND — Stative/intrans. ‘stand’ is expressed in Hitt. by the middle verb *ar-* < IE **er-* ‘move, stir, raise’, e.g. pres. *arta* < **r₂-to* (augmented in Gk. *ᾠρτο* ‘moved, rose’, Ved. *ārta* ‘went’). P 104-8; cf. *ar-* ‘arrive’ (10.55), *arai-* ‘(a)rise’ (10.21), *ariya-* ‘raise’ (10.22).

IE **steA₂-* may have a cognate in Hitt. *tittanu-* ‘install’, 12.12.

12.16 — REMAIN, STAY; WAIT — The sense 'stay, remain in place' is included in *es-*, *as-* 'sit, reside', etc. (12.13), and also in *ar-* 'stand (by), be stationed' (12.15).

huski- 'wait (for), await' is variously analyzed. Connection with Skt. *ávati* 'observe, notice', Gk. *ᾗω* 'perceive', Lat. *aveō*, etc. (Götze - Pedersen, MS 51) is precluded because the latter belong rather with Hitt. *au(s)-* 'see', **A₂ew-* (15.51). An etymology based on IE **A₁ows-* 'ear' (Gk. *οὔς*, OIr. *au*, Goth. *ausō*, Lat. *auris*, Lith. *ausis*, OCS *ucho*, Avest. *uši*, Arm. *unkn*, etc.) is workable (cf. Eichner, MSS 31 [1973]: 87; Oettinger, *Stamm.* 328; perhaps **A₁[e]w-* 'listen', PAnat. **h[e]u-ski-* 'keep listening [for]' = 'wait for'), but it is undermined by the Anatolian loss of **A₁ows-* in favor of *istaman-* (4.22). T. Schultheiss (KZ 77 [1961]: 221) compares instead Arm. *hskem* 'look after, wait on, attend to', thus **A_w₂sk-*.

12.17 — REMAIN — A connection of *as(s)-* 'be left over, remain' (only secondarily 'stay') with *es-* 'be' or *es-* 'sit' (Bechtel, *Hittite Verbs* 92-93; T 75) is unlikely on formal grounds (P 189). The only other suggestions so far proffered are tentative comparisons with Lat. *inānis* 'empty' (**in-ās-no-*; Čop, *Ling.* 9 [1969]: 196) and Skt. *āśa-* 'ashes', Lat. *āridus* 'dry' (*Stamm.* 187).

12.18 — LEAVE — *tarna-* 'abandon, turn loose', compared early on with Toch. A *tārṇāṣ*, B *tārkanam* 'leave' (Benveniste, *BSL* 33 [1932]: 142; cf. *LIEV* 26), is now most commonly reconstructed **t_ṛ-ne-A-*, from IE **ter-A₁-*, **tr-eA₁-* seen also in Hitt. *tarh-* 'overcome' (see 4.81), though the semantic development is not clear (cf. Hrozný, *HKB* 77, n. 9; Hendriksen, *Untersuchungen* 67; Oettinger, *Stamm.* 155).

The standard etymology for *tala-*, *daliya-* 'leave (alone)' is IE **tel-A₂-* 'endure, bear, suffer' : Lat. *tollō*, esp. **t_lA₂-* as in Gk. *τληῖναι*, Goth. *pulan*, Latv. *iz-tilt* 'suffer', W. *tlawd* 'poor, wretched'

(Petersen, AO 9 [1937]: 210). Unconvincingly rejecting this comparison (“Die Verbindung mit **telh₂* ... wird den heth. Lautverhältnissen nicht gerecht”), Oettinger and Eichner (*Stamm.* 487-88 and n. 78) offer an analysis as a (nonexistent) preverb *da-* (: Lat *dē*) + *lā-* ‘release’ (11.34).

(*arha*) *pittalai-* ‘set free, leave alone, neglect’ is apparently denominative from a **pitta-la-* ‘renderer’ or **pi(ya)tt-ala-* ‘grantor’, based on *pi(y)ett-*, *pitt-* ‘gift, grant’ (cf. *piddai-* ‘pay’, 11.65) fr. *pai-* ‘give’, 11.21 (Puhvel, *Hethitisch und Indogermanisch* 214 = AI 361).

12.19 — QUIET — The adverb *duddumili* ‘quietly, silently’ seems to be related to *duddumi-* ‘deaf’, *duddu* ‘silence!’ (4.95), thus perhaps ‘so as not to be heard’ (cf. also Goth. *dumbs*, NE *dumb*); *HWb.* 230-31.

12.21 — COLLECT, GATHER — IE **les-* (Goth. *lisan* ‘pick, gather’ [NHG *lesen* also ‘read’], Lith. *lèsti* ‘pick up’, etc., *IEW* 680) yields also Hitt. *less-*, *liss-*, *lisai-* ‘pick, gather’ (P s.v.).

Intrans. *tarupp-* ‘gather, assemble; wind or twist together’, possibly the source of Gk. *τολύπη* ‘ball of yarn’, may be from IE **(s)trew-p-*, parallel to **(s)trew-d-* > NHG *strotzen* ‘abound in, teem with’ (Tischler, *Kratylos* 20 [1975 (1977)]: 213-14); discussion of this and other suggestions in B. D. Joseph, *Glotta* 60 (1982): 230-34.

12.22 — JOIN, UNITE — *hap(p)-* ‘join, attach’, also impers. ‘work out, succeed’, is reconstructed **A₁ep-* and connected with Lat. *apere* ‘seize, arrest’, *aptus* ‘joined, fitted’, *cōpula* ‘bond’ (**co-apula*), *apīscor* ‘attain’, etc. by Puhvel (P 282), thus rejecting the standard connection of the latter with *ep(p)-*, *ap(p)-* ‘seize’ (contrast 11.14). Cf. also *happessar* (^{UZU}ÚR) ‘joint, limb, body part’ (like Skt. *páruḥ* ‘knot, joint, limb’).

damenk- ‘fasten, attach’ can reflect a **tṃ-n-(e)k-*, seen also in Skt. *tanákti* ‘contract, congeal’, root **tem-k-* (**tṃ-k-*) in *takráṃ* ‘curdled milk’, Av. *taxma-* ‘solid’, etc. (IEW 1068; cf. Van Brock - MacGregor, *RHA* 20 [1962]: 32-33; Oettinger, *Stamm.* 144-46), similar to *hamenk-* ‘bind’ (9.16).

For *takk(e)s-* ‘join together, weave’, etc. see 6.33.

12.23 — SEPARATE — The verb *harp-* appears to mean both trans. ‘separate, remove’ and medial-intrans. ‘join up with’ or similar. If homonymous roots are not involved, some common base-meaning must be assumed, e.g. ‘pile up separately’ or ‘pick out and set aside’ (cf. Neu, *Interpretation* 49-50; T 179-80), taking into account the ostensibly related noun *harpa-* ‘heap, pile’. The attendant uncertainty obscures precise meaning-relationships among the Hitt. forms and the widely accepted cognates Gk. ὀρφάνος, Lat. *orbus* ‘bereft’, Arm. *orb*, IE **H₁orbh(-o)-* or **A_w₁rbh(-o)-* (E. Polomé, *Ogam* 6 [1954]: 159-60). The usual further adduction of Skt. *árbha-* ‘small; young, weak’ was rejected on semantic grounds by Benveniste (*HIE* 11-12); also to be kept apart are Hitt. *arpa-*, *arpu-* ‘bad luck, misfortune’ : Ved. *raphitá-* ‘overcome, wretched’ (cf. P 168-70).

tuhs- ‘cut apart’, see 9.22.

12.232 — DIVIDE — The basic meaning of *sarra-* seems to be ‘divide, part’, though it takes on various other senses, e.g. midd. ‘transgress an oath’ (cf. Neu, *Interpretation* 152-54; they are assigned to separate verb stems in *EHS* 531-33). A connection with **sarhu-* ‘thieving’ (in *sarhuntalli-* ‘id.’) < **sṛA-* and comparison with Gk. ῥώομαι ‘move quickly or violently’ (**sroA-*), IE **ser(-A)-* (*Stamm.* 288-90) is unconvincing. Perhaps *sarra-* represents **sor-éye-* < IE **ser-* ‘set in a row, line up’, Gk. εἶρω, Lat. *serō*, Osc. *aserum*; Lat. *seriēs*, OIr. *sreth* (**sṛ-tā*; cf. Lat. *sors*, *sortis* ‘lot’) ‘row’, Goth. pl.

sarwa ‘armament’, ON *sørvi* ‘string of beads’, etc. (IEW 911; cf. Eichner apud Oettinger, *Stamm* 290, n. 63).

The probable sense ‘mark off, set apart’ of *ark-* (separate from *ark-* ‘mount, copulate’, 4.67) leads to comparison with Hes. ἔρχατος · φραγγμός, town name Ἐρχομενός, Ὀρχομενός; ὄρχατος ‘garden, plantation’, etc., IE **ergh-*, **orgh-* (AI 290-91, P 140-42, T 58-59).

mark- ‘divide, apportion, distribute; butcher’ is used particularly in connection with animal sacrifice, appearing often in association with *ark-* ‘mark off’ (cf. CHD 3.187-88). Comparison with Skt. *marcáyati* ‘destroy’ (*Stamm* 425-26) proceeds from an incorrect base-meaning ‘zerwirken’. More apposite are OE *mearc*, Goth. *marka* (LLat. *marca*) ‘border, boundary’, Lat. *margō* ‘margin’, ON *mörk* (OFr. *marche*), Avest. *marəza-*, OIr. *mruig*, W., Corn. *bro* (**mrog[i]-*) ‘(border) region’, etc. (IEW 738).

12.24 — OPEN — No agreement has been reached on an etymology for *has(s)-*, *hes(s)-* (iter. *haski-*, intensive *hashas-*). Most commonly adduced are Hitt. *has-* ‘beget, give birth’, Toch. B *ās-* ‘bring forth’ (Kronasser, *VLFH* 222, T 194) and, little better, Lat. *ōs* ‘mouth’ (e.g. Petersen, *AO* 9 [1937]: 203; Bernabé P., *Revista española de lingüística* 3 [1973]: 425-26). Puhvel (P s.v.) suggests instead Skt. *ásyati* ‘throw (open)’, toch. A *āsuk* ‘widely, beyond’.

As opposed to the nuance of normal, legitimate ‘opening’ in *has(s)-*, *kenu-/kinu-* usually connotes forced or illegal entry (Laroche, *BSL* 58.1 [1963]: 58-59). Causative ‘make gape’ from **ki-* ‘be open’, it reflects IE **ǵheyA₂-*, **ǵhy-eA₂-* ‘stand open’, Lat. *hiāre* ‘gape’ (functionally parallel, vs. *patēre*), OE *ginan*, *geonian* ‘yawn’, Gk. χαίνω ‘gape’ (**ǵhA₂-n-y-*), χάσμα ‘chasm’ (**ǵhA₂-s-mḡ-*) and extended forms (IEW 419-21; Laroche, loc. cit.; T 579 and refs.)

12.25 — SHUT, CLOSE — *istap(p)*- ‘shut (in), plug up’, etc. (caus. *istappinu*-, deverb. *istappulli*- ‘lid, stopper’) is from IE **step*- (OCS *stǫpiti* ‘tread’, *stopa* ‘footstep’), with variants **stebh*- (Gk. *στέφω* ‘entwine’, *ἄστεμφής* ‘firm’, Skt. *stabh*- ‘support, make firm’, *stāmbha*- ‘post, pillar’, Lith. *stābas* ‘post’, *stanības* ‘stump’, OE *stæf* ‘staff’, ON *steffa* ‘restrain, stem’) and **steb*- (OE *steppan*, *stempān*; Gk. *στέμβω* ‘kick around’); cf. Benveniste, *BSL* 33 (1932): 139; Oettinger, *Stamm*b. 419-20; T 432-33; P 471-75.

The source of *hatk*- ‘close; squeeze’ (with adj. *hatku*- ‘narrow’ and further derivs., 12.62) is uncertain; Benveniste (*Origines* 156) reconstructed **Héd*- ‘enclose, contain’, comparing Skt. *átka*- ‘mantle’, Av. *aḍka*-. His further connection of Gk. *δέκομαι* and Lat. *dece*t is more questionable. T 225-226.

sah- ‘plug, clog, stop up; cram’ (with neut. abstract *sahessar*, concretized ‘closed area; fortress, stronghold’) may be related to *sehur* ‘urine’, etc.; see 4.65.

12.26 — COVER (VB.) — A cogent etymology for *kariya*- ‘cover, hide’ (iter. *kāriski*-) compares Skt. *cārman*- ‘skin, hide’, Lat. *cortex* ‘bark, rind’, *corium* ‘leather’, *scorium* ‘hide’, OHG *skirm* ‘cover(ing), shelter’, from IE **(s)ker*- ‘cover, hide’, homonymous with **(s)ker*- ‘cut’ (Puhvel, *Bi. Or.* 38 [1981]: 353). Earlier attempts in T 504-5.

istap(p)-, see 12.25.

12.27 — HIDE, CONCEAL — A comparison of *munnai*- with Gk. *μῦν* ‘close one’s eyes’ (as **mu-néA^w*- < **mewA^w*-; *Stamm*b. 161-62) is semantically tortured. Cf. rather Skt. *mōṣati*, *muṣṇāti* ‘steal’, Gk. *ἀμύνω* ‘fend off’, midd. ‘defend oneself’, Frank. (*Lex salica*) *chrēo-mōsido* ‘corpse-robbery’ < **(A₂)m(e)uE_T-s*- (Petersen, *AO* 9 [1937]: 208), and Eichner’s connection with Hitt. *maus*- ‘fall’ (*Flexion und Wortbildung* 84).

With *sanna-* (**sn̄-n-A-*), Oettinger (*Stammh.* 159-60) compares Gk. ἄνευ 'without' (**sn̄A-ew*) and Skt. *sanutár* 'aside' (**sn̄A-u-*), Lat. *sine* 'without' (**senA-[e]i*) and OIr. *sain* 'different' (**sn̄A-i-*), with a root **sen-A-* but difficult semantics.

kariya- 'cover, hide', 12.26.

12.31 — HIGH — *parku-* matches Arm. *barjr* as a u-stem adj. (cf. Puhvel, *Gedenkschrift Kronasser* 181), from IE **bherǵh-* 'high', Skt. *br̥hant-*, Av. *bərəzant-*, MW *bry* 'high, great', Mlr. *bri*, W. *bera*, OE *beorg*, NE *barrow* 'hill, mound', ON *berg*, etc. (*IEW* 140; cf. *HWb.* 161). Luw. *parrai-*, *parri-*.

aru- is from IE **er-*, **or-* 'move, raise', etc. (**rrú-*?); cf. 10.21 and P 177-78. It occurs mainly in the phrase *aru(-)suwaru-* 'high-and-mighty'; cf. Puhvel, *Bi. Or.* 36 (1979): 57, *JAOS* 101 (1981): 214.

12.32 — LOW — *kattera-* (adj.) 'lower' is from *katta(n)* 'down, under' (+ IE comparative **-ero-*); cf. Gk. κατά, κάτω, etc. (*IEW* 534; cf. T 545-46, 539-42).

Suffixless loc. *dagan* 'on the ground', cf. 1.212.

12.33 — TOP — Skt. *ágra-* (or Gk. ἄκρον, ὄκρος) may have a cognate in Hitt. ^{NA4}*hekur* '(mountain) peak' (Pedersen, *Hitt.* 183), IE **E₂eg-r-* (**E₂-* suggested in Puhvel, *Evidence* 88, 92 = AI 134, 138); cf. discussion and refs. T 235-37.

12.352 — POINT — *dampu-* 'pointed' may be from a primary 'rough', 15.76.

12.353 — EDGE — *arha-*, *irha-* is 'edge, rim, boundary, etc.', from an original sense 'line' (cf. 19.17); cf. also *erhui-* 'basket', 9.76.

12.36 — SIDE — *tapu(wa)s-* ‘rib; side’, with adv. and postpos. *tapusa*, *tapusza* ‘sideways, beside’, remains unexplained (EHS 260, 328, 341-42, 343).

Luw. *parta-/i-* ‘side, part’ is compared by Ivanov (*Etimologija* 1977: 145) with Lat. *pars* < **parts*.

12.37 — MIDDLE — *istarniya-*, from adv. *istarna*, *istarni* ‘between, among’. The standard comparison (Hrozný, SH 96) with Lat. *sternō*, Skt. *str̥ṇāti* ‘spread’, Gk. *στέρον* ‘breast’, OCS *strana* ‘area’, OHG *stirna* ‘forehead’ (IE **ster-H2-*) is semantically weak, and is not helped by unrelated and secondary examples like ŠÀ ‘middle’ vs. Akk. *libbu* ‘heart, middle’, OCS *srěda* vs. *srūdice*, Brit. *kreiz* vs. OIr. *críde*, etc. (cf. T 436). Instead it should be retired in favor of the connection with Lat. *inter*, IE **en(s)-ter* (P 482), with more convincing parallels in usage.

For the noun *taksan* cf. 6.33.

12.41 — RIGHT — Besides the basic sense of ‘right hand’ (e.g. *kunnas kessarās*), *kunna-* (ZAG-*a-*) intimates ‘rightness, correctness, strength, success’, etc., like Gk. *δεξιός*, Russ. *právyj*, the Gmc. words (NE *right*, NHG *recht*, etc.), and most of the IE terms (DSS 865), supporting a comparison with Avest. *spənta-*, Lith. *šveñtas*, OCS *světŭ* ‘holy’ (Duchesne-Guillemin, TPhS. 1946: 89-90; Bomhard, RHA 31 [1973]: 113; T 632). Particularly common in personal names, e.g. *Kuna-*, *Kunni-*, *Kuniya-ziti-*, ^D*Kuniyawani-*. also compare the derivs. *kunnes-*, *kunnahh-* ‘be successful’, ZAG-(*na*)*tar* ‘correctness’, etc.

Luwian employs the term *isarwili-* from *issari-* ‘hand’ (4.33), lit. ‘pertaining to the (sc. right) hand’.

12.42 — LEFT — The full form of the Hitt. *l*-stem reading of GÜB-*la-* is unknown.

12.43 — NEAR — *maninku(want)-* ‘near, close’ represents a specialization of the primary meaning ‘short’; cf. NGk. κοντά < κοντός ‘short’.

12.44 — FAR — *tūwa-* (adj. *dūwala-*) belongs with Skt. *dūvā-* (comp. and superl. *dāvīyas-*, *dāviṣṭha-*), Av. *dūvaē*, OPers. *duvaiy* < IE **dewA₂*- (Götze - Pedersen, *MS* 71; Benveniste, *BSL* 33 [1932]: 142-43). Further cognates include Gk. δῆν ‘long’ (< **ḏḑān*), Lat. *dūdum* ‘long ago’, OCS *davě* ‘once upon a time’, OIr. *doe* ‘slowly’, MHG *zouwen* ‘hurry’, etc.

12.45 — EAST — *ṢĒT* ^᠓UTU-*as* (= *Istanuwas*), lit. ‘start(ing place) of the sun’. The Hitt. allographic reading may be *marri-*, if the Akkadian (*ṢI-TUM*, *ṢI-TI*) is read as *ṣītu* ‘rising’, with the solar reference understood by implied opposition to *ŠÚ.A* ^᠓UTU-*as* ‘sun’s setting’ = ‘west’ (cf. Kümmel, *Ersatzrituale* 60-61, 90; CHD 3.185-86; P 376), though an etymological identity for *marri* is unknown.

The east wind and its direction are IM KUR.RA, lit. ‘mountain wind’ (Akk. IM *šadū*).

12.46 — WEST — *ipāt(t)arma(yan)-* can be dissected into *-tarma* ‘nail, peg; point’ (9.50) + *ipa-* (Hier. *ipami-*) ‘west’, comparable with Gk. ζόφος ‘dusk, (north)west’ (cf. Ζέφυρος ‘west wind’) as **A₂ibho-* vs. **A₂yobho-* (Puhvel, *AJPh.* 104 [1983]: 224-26; P 365-77).

The competing designation is *ŠÚ.A* ^᠓UTU-*as* ‘seat (setting place of the sun)’ (cf. ^{GIŠ}ŠÚ.A-*hi-* = Hitt. *kishi-* ‘chair’, 7.43).

IM MAR.TU (Akk. *amurrū*) ‘west (wind)’.

12.47 — NORTH — IM SI(ŠÁ), Akk. IM *ELTĀNU* ‘north (wind)’.

12.48 — SOUTH — IM GAL stands for IM GĀL(.LU) 'south (wind)', Akk. IM *šūtu*; cf. *EHGl.* 35, n. 44.

12.51 — FORM, SHAPE — *es(sa)ri-* is from *es-* 'be' (9.91) plus the verbal noun-forming suffix *-ri-* seen also in *edri-* 'eating, food', *auri-* 'lookout, watch' < *au(s)-* 'see, look' (15.51), etc.; cf. P 313-15. It commonly appears as ^{si}*Ges(sa)ri-* 'fleece', lit. 'wool-shape'; see 6.22.

12.52 — SIZE — *sallatar*, verbal abstract fr. *salli-* 'large', 12.55.

12.53 — GROW — The basic notion 'to grow in size' is expressed by *parkiya-* < *park-* 'rise' (10.21) and *salli- kis-* 'become large' (12.55). *huwai-*, primarily 'run' (10.46), commonly means 'spread, grow profusely' when used of vegetation.

mai-, *miya-* (inch. *miess-*, iter. *meski-*) connotes 'ripen, grow to maturity', used of plants, animals, and human beings, with numerous derivs.: e.g. ^{LU}*mayant-* 'grown man, mature youth', *mayantes-* 'grow to manhood', *mayandatar* 'mature strength', *miyahuwantes-* 'grow old', *miyahuwandatar* 'old age', *miyant-* 'ripe, in bloom', *m(i)essa-* 'thrive'. The standard etymology (E. Risch, *Corolla Linguistica* 195, *Flexion und Wortbildung* 253; Puhvel, *LIEV* 55) connects IE **mE₁-* 'measure' (Skt., Av. *mā-*, Gk. μέτρον, Lat. *mētiōr*, etc.; *IEW* 703) and **meE₁-ro-*, **moE₁-ro-* 'large' (Gk. -μεγας, OIr. *mór*, W. *mawr* 'great', OE *mære*, Slav. [Vladi-]mĕrŭ 'fame', etc.; *IEW* 704), and the basic sense is 'attain full measure, maturity'. An alternative (suggested by Puhvel, p.c.) derives *mai-* < **mā-* and compares Lat. *mātūrus*, a good semantic match. See also 14.11.

A comparison with Toch. B *maiyyā* 'strength', *maiwe* 'young man' is also possible (Gusmani, *Lessico* 59, following Bailey, *Proceedings of the 23rd International Congress of Orientalists* [London, 1956], p. 227), but further connection of Skt., Av. *māyā-* '(magical)

power (IE **meA-*) is less plausible. Derivations of *mai-*, *miya-* from **meyH-* 'mild' (e.g. Eichner, MSS 31 [1973]: 57-60; Oettinger, *Stamm* 471-72) arise from confusion with the homonymous *miess-* 'be soft, mild, gentle' (15.75; cf. CHD 3.115).

IE **Aweg-*, **Aug-* (Lat. *augēre*, Gk. αὐξάνω, OE *weaxan*, Toch. A *oks-*, B *aukṣu-*, etc.) is reflected in both Hitt. *ukturi-* 'firm, lasting' (14.252) and *hatuka-* 'terrible' (16.53).

12.54 — MEASURE — IE **meE₁-* 'measure' is shifted to 'grow' in Hitt. *mai-*, *miya-* (12.53).

12.55 — LARGE, BIG — *salli-* (GAL) corresponds apparently to Lat. *solīdus* 'heavy, massive', *salvus*, OIr. *slán*, Arm. *orj* 'whole, hale, healthy', Skt. *sārva-*, Av. *haurva-*, Gk. ὅλος, Ion. οὔλος, OLat. *sollus*, OIr. *uile*, etc. 'whole, entire' (e.g. EHS 204).

A complementary conception of 'bigness' appears in *ura-* (Luw. *ura-*, cf. Laroche, RHA 11 [1950]: 43-45), cf. Skt. *urú-*, Av. *vouru-*, Gk. εὐρύς 'wide' (e.g. Gusmani, *Lessico* 51, 106).

12.56 — SMALL — *am(m)iyant-* is lit. 'not grown, immature', from **n-* + *-miya-* (*mai-* 'grow', 12.53) + *-nt-* (P 47-48).

kappi- (TUR) has been compared with Avest. *kamna-*, Sogd. *kβn*, NPers. *kam* 'small, few'; Anat. **kmbh-i-* vs. Iran. **kmbh-na-* (Szemerényi, *Die Sprache* 12 [1966]: 27 and n. 94); consistent *-pp-* points rather to IE **-p-* (though not as far as IE **kapro-*, Lat. *caper* 'he-goat', etc., added by Sturtevant, Lg. 10 [1934]: 266). T 491. A deriv. may be *kappant-*, if 'diminished, waned' (referring to the moon); cf. Puhvel, *Bi. Or.* 38 (1981): 353.

tepu- 'small, insignificant' matches Skt. *á-dbhu-ta-* 'not to be slighted'; cf. Hitt. *tepnu-* 'to slight, make small' : Skt. *dabhnóti* 'damage' (Gusmani, *Lessico* 96).

12.57 — LONG — The main IE form is **dA^w-gh-(o-)*, as shown by Hitt. *daluki-*, Gk. *δολιχός*, Skt. *dīrghá-*, Av. *darāga-*, with OCS *dlŭgŭ*, Lith. *ilgas*, etc.; cf. Petersen, *Mélanges H. Pedersen* 474; Puhvel, *Studies ... Whatmough* 235 = AI 37, *Evidence* 90 = AI 136. *dalukes-* 'be(come) long', *daluganu-* 'lengthen'.

12.59 — SHORT — *maninku(want)-*, Luw. *mannahuwan-* 'near; short', compared with OHG *mangōn* 'lack', MHG *manc* 'deficiency', Lat. *mancus* 'defective, crippled', noninfixed OE *mæger*, ON *magr*, OHG *magar* (Goetze, *Lg.* 30 [1954]: 403) suggests an original meaning 'scant, lean, (long and) thin; short, lacking' for IE **meAk-*, **mA-n-k-(u-)* (IEW 699). Cf. *maninkwes-* 'grow short', *maninkuwa(nda)hh-* 'shorten'.

12.61 — WIDE, BROAD — *palhi-* is clearly from IE **pel-A₁-*, corresponding to **pl-eA₁-(no-)* in Lat. *plānus*, Latv. *plāns* 'flat' (cf. Gaul. *Mediolānum*), Lith. *plónas* 'thin', and to **pl_l-t-* in Hitt. *paltana-* 'shoulder' (4.30) and *palzasha-* 'base, stand' (/paltsha/, P s.v.), Gk. *πλατύς*, OIr. *lethan*, Lith. *platūs*, Skt. *pr̥thú-*, Av. *pərəθu-* 'wide', etc.; cf. e.g. Benveniste, *Origines* 151; Kuryłowicz, *Études* 73; Puhvel, *Bi. Or.* 36 (1979): 58. 'Width' and 'breadth' are variously referred to by *palhatar*, *palhessar*, *palhasti-*, and cf. Luw. *palhai-* 'widen, extend'.

12.62 — NARROW — *hatku-* is the *u*-stem adj. from *hatk-* 'close, squeeze' (12.52), and signifies 'narrow, tight' and metaphorically 'difficult, pressing' (like NE *strait*); cf. *hatkues-* 'become difficult', *hatkiesnu-* 'beset'.

12.64 — THICK (IN DENSITY) — Lat. *dēnsus* and Gk. *δασύς* are matched by Hitt. *dassu(want)-* 'strong, solid, heavy, difficult', see 4.81.

12.65-12.66 — THIN — From a basic meaning 'thin, light' (referring e.g. to olive oil), *pittalwa(nt)-* also means 'plain, mere, unseasoned' and the like. It can be compared with OLat. *petilus* 'slender, meager' and Gk. πέταλον, IE **petA-l(w)o-*, from the root **petA-* 'spread' (Gk. πετάννυμι, Lat. *patere*, OE *fæþm*, etc., IEW 824), with semantics ('spread [thin]') paralleling the group of Lat. *tenuis*, OIr. *tana*, OE *þynne*, OCS *tīnŭkŭ*, Skt. *tanu-*, etc., lit. 'stretched (thin)' < **ten-* 'stretch'. Cf. Puhvel, *Hethitisch und Indogermanisch* 210-11 = AI 357-58.

maklant- 'thin, emaciated' (vbl. abstract *maklatar*; CHD 3.121-22), if cognate with Lat. *macer*, Gk. μακρός (Benveniste, BSL 33 [1932]: 140), probably belongs further with Hitt. *maninku(want)-* 'short', etc. (12.59), thus here **mAk-ro-*, **mAk-lo-*.

12.67 — DEEP — *halluwa-*, both 'hollow' and 'deep' (*halluwanu-* 'deepen, lower'), matches Lat. *alveus* 'hollow, cavity', *alvus* 'bowels, womb', IE **A₁l-wo-* vs. **A₁ul-ó-* in Gk. αὐλός 'pipe', αὐλὼν 'hollow place' (Čop, *Indogermanica minora* 32-33). Not related to *halluwai-* 'quarrel, strife'; cf. Puhvel, *Bi. Or.* 36 (1979): 57.

12.71 — FLAT — *taksan* 'level, even, equal', *taksatar* 'flat, level surface, plain', see 6.33.

'To flatten' is *istalk(iya)-* < **stel-g-*, cognate with OCS *stīlati* 'spread', Lat. *lātus* 'wide' (< **stlāto-*); P 451-52.

12.72 — HOLLOW — *halluwa-* 'hollow' and 'deep', 12.67.

12.73 — STRAIGHT — *handant-*, primarily 'right, upright, true', etc., 16.73.

12.74 — CROOKED — *lak-*, midd., 'fall over, be out of line', etc.; 9.14.

12.75 — HOOK — Skt. *āṇkas-*, Gk. ἄγκος ‘bend’, and Gk. ὄγκος ‘barb’ = Lat. *uncus* ‘hook’ match the Hitt. plant-name *ankis-* (P 73).

12.76 — CORNER — *halhaltumar(i)-* ‘corner’, by extension also ‘corner of the universe, cardinal direction’, is most likely a parallel form to *halhalzana-* ‘shoulder’ (4.30), as **(H₁l-)H₁lt-wr̥* vs. **(H₁l-)H₁lt-no-*. So P s.v., comparing for meaning Gk. γωνία ‘corner, angle’ : γόνυ ‘knee’, Lat. *angulus*, OCS *ǫglŭ*, Arm. *ankiun* ‘angle, corner, nook’ : OHG *anchal* ‘heel, knuckle, ankle’.

12.82 — CIRCLE — Words for ‘circle’ in Hittite are those with primary meanings of ‘line, limit, boundary’, etc.; see *kaluti-* 12.84 (cf. Gk. κάλαθος ‘basket’) and *arha-*, *irha-* ‘boundary’ 19.17 (cf. *erhui-* ‘basket’, 9.76; and *arahza*, *arahzanda* ‘around; outside’, *irhai-* ‘circulate, make the rounds’, etc. [P 129-35, AI 353-55]).

12.84 — LINE — *kaluti-*, also ‘row, series; circle, group’ shows the same semantic development as the widespread Lat. *linea*, from an original sense ‘thread, spun line’, as shown by the comparison with Gk. κλώθω ‘spin’, κλώσις, κλωστήρ ‘line’, IE **kla^w₂-dhi-* (Puhvel, *Studies ... Whatmough* 235 = AI 37, *Evidence* 90 = AI 136, AI 353-55).

12.85 — HOLE — *pattessar* is probably to be read *petessar*, in view of its identity as a verbal noun fr. *pè-da-* ‘dig’ (8.22), formerly read *padda-*; cf. Puhvel, *Hethitisch und Indogermanisch* 214-16 = AI 361-63.

Another original verbal abstract is *hattessar*, *hantessar*, fr. *hattai-* ‘chop’ (9.22), thus referring to holes in things other than the ground.

‘Pits’ for specific purposes are also mentioned, eg. the Hurrian-derived (< Akk. *apu*) *api-* ‘sacrificial pit’ used to call upon infernal beings (P 99-102, T 47), and *akkus(s)a-*, a pit for trapping animals, etymologically obscure (P 25, T 12).

12.91 — EQUAL — *taksan sarra-* ‘split equally, in half’, see 6.33.

‘Of equal rank’ is *annawali-*, *annauli-*, from demonstrative *anna-* ‘self, same’ (P 51-55) + *-wali-* (cf. *walliwalli-* ‘strong’) and comparable with Lat. *aequi-valens*, lit. ‘of the same strength’ (P 64-65); cf. 16.79

12.92 — LIKE, SIMILAR — The notion of ‘similarity’ can be found in *tākk-* ‘resemble, correspond, conform to’, probably causative from IE **dek-* ‘accept, take on’; cf. Gk. δέχομαι ‘accept’, δοκέω, Lat. *decet* ‘be fitting’ (E. Tichy, *Glotta* 54 [1976]: 71-73; Watkins, *Idg. Gr.* III/1 117; Oettinger, *Stamm.* 427-28).

12.93 — CHANGE — ‘Change’ or ‘falsify’, used of words, is *wahnu-*, primarily ‘turn’ (10.12), thus ‘turn into something else’ (cf. Engl. “twist someone’s words”).

The strange-looking *tameuma-*, usually glossed ‘changed; different; foreign’, etc. (cf. *damai-* ‘other?’), e.g. *HWb.* 208, yields factitive *tameumahh-* (trans.) and incho. *tameumes-* (intrans.) ‘change, alter’ (?); the form is unexplained.

QUANTITY AND NUMBER

13.12 — NUMBER — The closest approximation is *kappuwawar* ‘counting, reckoning’, 11.66.

mekki- ‘many, great in number’, 13.15.

13.13 — WHOLE — Besides the obscure *dapiya(nt)-*, which most closely matches the collective sense of Gk. ὅλος, etc., *humant-* is commonly used; see 13.14.

The etymon of Gk. ὅλος, Lat. *sollus, salvus*, OIr. *uile*, Skt. *sārva-*, Arm. *oġ*, Toch. A *salu*, B *solme*, etc. becomes Hitt. *salli-* ‘large’, 12.55.

Opinion is divided on the etymology of *panku-* ‘total, united; general, in common; each’, also noun ‘totality’. From a formal point of view the simplest comparison is Skt. *bahú-* ‘much, abundant’, Gk. παχύς ‘fat, thick’, IE **bhṛ̥ghu-* (HWb. 157). The notion of totality or completeness, together with the social class designation *panku-*, variously interpreted as a ‘body of nobility’ or the like (Goetze, *Kleinasien* 86-88), has led several scholars to connect it instead with IE **penk^{we}* ‘five’, seeing an ancient link between ‘five’ and ‘totality’, originating in the PIE system of counting on the fingers and applied widely to social groupings such as the Indic *pañca jánās*, OIr. *coiced*, Umbr. *puntis*, and the five Spartan demes. For discussion see e.g. E. Polomé, *Pratidānam* 98-101, *RBPhH* 44 (1966): 229-33; W. P. Lehmann, *Indo-European and*

Indo-Europeans 3-10 and refs.; F. Crevatin, *Incontri linguistici* 4 (1978): 7-11.

13.14 — EVERY; ALL — *humant-* 'each, every', also collective 'all'. A comparison with the isolated Lat. *omnis* is semantically plausible, perhaps IE **A^w₁m-n-* vs. **A^w₁ém-ni-*? (cf. refs. T 284-85). An alternative connection is Goth. *iumjōns* 'crowd', OHG *wiuman* 'swarm' (**we-wm-*), IE **E₂wem-*, **E₂um-* (Knobloch, *Kratylos* 4 [1959]: 35).

kuisa- 'every, any' (Pal. *kuis-a*, Luw. *kuisha-* 'whoever', neut. Lyd. *qida* 'whatever', Hitt. *kuitta* 'everything') is the relative-interrogative pronoun *kuis* (IE **k^wis*) + enclitic *-a* 'and', thus an exact parallel to Lat. *quisque* (T 614-15).

13.15 — MUCH; MANY — *mekki-* is cognate with Goth. *mikils*, OE *micel*, NE *much*, and Toch. A *māk*, B *māka*, thus 'large (in number)' fr. IE **meǵh-*, Skt. *mah-*, Av. *maz-*, Arm. *mec*, Alb. *madh* (DSS 878-79). The Luwian equivalent is *mai-* < **makki-* (Laroche, *BSL* 58 [1963]: 77-78).

13.17 — FEW; LITTLE — *kappuwant-* may be the participle of *kappuwai-* 'count' (EHS 257; see 11.66), thus 'countably few' vs. *mekki-* 'beyond number', or perhaps < **kapp-* (: *kappi-* 'small' [12.56]) + denom. *-want*.

tepu-, see 12.56.

13.19 — MULTITUDE, CROWD — *pangarit*, instr. sg. 'with a crowd, in force' may be from a **pangar-* 'crowd', vbl. noun from *panku-* 'whole, together, collective', 13.13 (HWb. 157).

13.21 — FULL — The basic adj. is *sū-*, with deriv. verbs *suwai-* (Hier. *suwa-*, *susu-*) and (nasal-infixd) *sunnai-* 'fill' yielding

participial adjs. *suwant-*, *sunnant-* 'filled'. These forms plus mpsv. *suwa-* 'swell' and *sumrai-* 'be pregnant' (cf. 4.73) suggest IE **sew(H₂)-* 'be full, swell, be pregnant' (cf. IEW 913-14; HWb. 197-98, 200-1; Laroche, *RHA* 31 [1973]: 91-93; Watkins, *Flexion und Wortbildung* 378 [**sewA^w-*, **suA^w-u-*]; *Stammb.* 159, 298). Cf. also *suttati* 'swell' (< **su-to-* < **suH₂-to-*; Oettinger, *Eide* 12, 114). Neumann (*Die Sprache* 8 [1961]: 206, n. 6) may have been ultimately right to tie in also NHG *sieden* (ON *sjóða*, NE *seethe*) < **seu(-t)-*, which might be interpreted 'bubble, boil, effervesce' (cf. IEW 914-15).

13.22 — EMPTY — *dannara-* and *dannatta-*, *dannatti-* (Hier. *tanata-*) point to a stem **danna-* (EHS 186, 190, 249) of unknown origin; perhaps **dhñ-no-*; cf. Skt. *dhánvan-* 'desert, wasteland'? (Knobloch, *Kratylos* 4 [1959]: 35).

sannapili-, traditionally glossed 'empty; alone; unmarried, single' (HWb. 181), is from **sannapi* (*sannapi sannapi*) 'scattered, isolated, here and there' < *sani-* (or *sanna-*?) 'one and the same' (HWb. 181, 182; Goetze, *Lg.* 11 [1935]: 185-90); see 13.33.

13.23 — PART — *sarra-* (HA.LA, Akk. *zittu*) would seem to belong with the verb *sarra-* 'to part, divide', 12.232.

Lat. *pars* has been compared with Luw. *parta-/i-* 'side, part', 12.36.

13.24 — HALF — *taksan sarra-* 'equal part', cf. 13.23 and 6.33; ideogr. MAŠ.

13.31 — NOTE ON NUMERALS — Though most of the numerals in Hitt. texts are hidden beneath logographic symbols, the few recoverable details are mostly consistent with extra-Anatolian data. An interesting exception seems to be *meu-* (nom. *meyawas*),

Luw. *mauwa-* 'four', possibly connected with Gk. μείων, Lat. *minor*, OCS *mīnīšī* 'less, smaller', as 'less than the full hand' in counting (cf. Heubeck, *Die Sprache* 9 [1963]: 201-2).

On attestations of 'two' in Hitt. (basic form *dā-* < **dwoyo-*) see AI 389-98, and on Hitt. numerals generally EHS 362-65; Friedrich, *Elementarbuch* 71-73 and HWb. 301-4. To the bibliography on the IE numeral system should now be added O. Szemerényi, *Studies in the Indo-European System of Numerals* (Heidelberg, 1960).

13.32 — ONE — The reading of 1-*as*, gen. 1-*ēl* is not known for certain. Götze (AO 17.1 [1949]: 296-97) argued for *āśma*, which was connected with IE **sem-* (Gk. εἷς, Toch. A *sas*, Skt. *sama-*, Lat. *semel*, etc.) as **o-smo-* by Neu (*Anitta-Text* 98). Any interpretation of *āśma* as 'one', 'first', or 'firstly' (cf. T 84) is, however, firmly rejected by Puhvel (P 216-18), in favor of 'lo, behold', **asa-ma* fr. demonstrative *a-*. On Götze's earlier reading as *sanna-* cf. 13.33.

The IE stem **oi-ko-* appears in Hitt. *aika-wartanna-*, but from an Indic (Mitannian) source and not inherited (P 14, T 6).

13.33 — ALONE — *minu-* may be an original *u*-stem from IE **men-* 'small; isolated'; cf. Arm. *manr*, gen. *manu* 'small', Hes. μάνυ · μικρόν (for μικρόν; Weise, *BB* 6 [1881]: 233), μαναύεται · παρέλκεται, Att. μόνος, Dor. μῶνος, Ion. μούνος < **μονφ-ος* 'alone'.

**sannapi-* 'alone, single' (in *sannapi sannapi* 'isolated, scattered') < **sani-* or **sanna-* < **sm̥-ni-*, **sm̥-no-(bhi-)* 'one and the same', a likely cognate of Skt. *sama-*, Lat. *semel*, Goth. *sama*, Gk. εἷς, etc. (DSS 937). Cf. Götze, *Lg.* 11 (1935): 185-90, taking *sanna-* as 'one', = 1-*as*.

wannumiya- 'widowed' and 'orphaned', hence primarily 'bereft, alone', 2.75; cf. also Güterbock, *IF* 60 (1950): 205, n. 1.

13.34 — FIRST — *hantezzi(ya)-* is most probably formed from a suffix **-tyo-* (cf. *appezzi-* ‘last’, 13.35) on the stem *hanti-*, dat.-loc. **A₁(e)ntei* of **A₁ent-* ‘front’ (cf. *hant-* ‘front; forehead’, 4.205 [T 155-56]), semantically parallel to Gk. *πρῶτος*, Skt. *prathamá-*, OCS *prŭvŭ*, Lith. *pirmas*, OE *fyrrest*, *forma*, ON *fyrstr*, etc. With NHG *fürst* ‘prince’ cf. Lyc. *χñtaŭata* ‘leader’.

13.35 — LAST — Analogous to *hantezzi(ya)-* ‘first’ is *appizzi(ya)-*, *appezzi-*, etc. ‘last’. The IE suffix **-tyo-* is added to *appa* (EGIR[-*pa*]) ‘behind, after, back’, etc., cognate with Myc. *o-pi*, Gk. *ἐπί*; thus *appizziya-* = Gk. *ὀπίσ(σ)ω* ‘backwards; hereafter’ (P 91-94, T 46-47). Cf. Goth. *aftumists*; SCr. *zadnji*; Skt. *uttamá-*, Gk. *ὑστατος*; Fr. *dernier* fr. *derrière* (< *dē retrō*), etc. (DSS 940-41).

13.41 — THREE — Together with nom. 3-*es*, the attested gen. *teriyas* /*triyas*/ bears witness to the inheritance of IE **treyes* (> **tres*), gen. **triyos*.

13.42 — THIRD — 3-*anna* is read *teriyanna* /*triyanna*/, with the regular ordinal form *x-anna* < **o-no-* vs. **-to-* or **-tyo-* elsewhere in IE (?; otherwise EHS 365).

A derivative ^{LÚ}*tarriyanalli-* means ‘third in command’ (cf. Lat. *triārius* ‘third-rank soldier’), as ^{LÚ}*duyanalli-* is ‘second officer’; cf. AI 390 and n. 3 (with refs.; add Kronasser, *Studi ... V. Pisani* 615-18).

13.44 — THREE TIMES — 3-*is*, 3-*kis*, with 1-*anki-*, 2-*anki-*, 5-*anki-*, etc., point to a regular multiplicative *-(a)nki(s)*, cognate with Gk. *-άκις* (Rosenkranz, KZ 63 [1936]: 249; Sommer, *Zum Zahlwort* 21-22).

TIME

14.11 — TIME — Hittite *mehur* is clearly to be compared with time-words such as Goth. *mēl* ‘time’, Lith. *mētas*, Alb. *mot* ‘year, season’, and probably IE **mēn(es)-*, **mēnot-*, etc. ‘moon, month’, from **mē-* (e.g. Kretschmer apud Hrozný, *SH* 70, n. 3; Sturtevant, *Lg.* 7 [1931]: 119). The ancient base-meaning is generally taken to be ‘measure(ment)’, thus tying in Indo-Iranian *mā-*, Lat. *mētior*, Gk. μέτρον, etc. (*IEW* 703) as well as -μωρος, OIr. *mór*, W. *mawr* ‘great’, OE *mære* ‘fame’, etc. < **mē-ro-*, **mō-ro-* (*IEW* 704). Yet this standard view conflicts with the derivation of *mai-*, *miya-* ‘grow, ripen, mature’ < **meE₁-* ‘measure’ (see 12.53), as it is difficult to see how **meE₁-* (i.e. [**mex^y-*]) could yield *mai-* in one case but **meh-* in the other. As the IE form **mē-* is secured by the cognate forms from other branches, and the Hitt. spelling with single *-h-* suggests voiced *-E₂-* (unless graphic for *-hh-* after long *-ē-*; cf. Pedersen, *Hitt.* 189), it may be preferable either to derive the IE time-words from a separate **meE₂-* meaning either ‘measure’ or simply ‘time’ (reinterpreting **meE₁-* > *mai-*, -μωρος, OIr. *mór* etc. as ‘[be] great’, ‘attain full measure’), or perhaps to reassign *mai-* (< **mā-*) to **meA-*, comparing Lat. *mātūrus* (cf. 12.53 and Eichner, *MSS* 31 [1973]: 53-107) and preserving IE **meE₁-* ‘measure’.

14.12 — AGE — *miyahuwandatar* ‘old age’, fr. *mai-* ‘grow, mature’, 12.53.

14.13 — NEW — IE **newo-* (Skt., Av. *nava-*, Gk. νέος; Toch. A *ñu*, OCS *novŭ*, Lat. *novus*) yields Hitt. *newa-* (GIBIL), fact. *newahh-* (cf. Lat. *novāre*); HWb. 150-51.

14.14 — YOUNG — The strong resemblance of Hitt. *huelpi-* to IE **g^welbh-* fuels repeated attempts to connect it with Skt. *gárbha-*, Gk. δελφύς ‘womb’, etc. (thus Hrozný, *SH* 111, n. 5; cf. T 259-60), despite the unexplained initial phonetics. The possible existence of a parallel stem **k^welbh-* in ON *hvelpr*, OHG *welf* ‘young pup, whelp’ complicates the picture, and the weakness and labiality of gutturals in Luwian (cf. *mannahunna-*, *mai-*, *issari-* : Hitt. *maninkuwant-*, *mekki-*, *kessar*) emphasizes the need for better understanding of Anatolian and Indo-European labiovelars, as already well known from Germanic, Celtic, and Italic data. An alternative comparison with Gk. (Ϝ)έλπω ‘cause to hope’, Lat. *volup* ‘pleasantly’, *lepōs* ‘pleasantness’ is formally plausible; the root would be **H₁wel-p-* or **E₂wel-p-* (cf. Benveniste, *Origines* 155 and Van Windekens, *BHD* ... Kerns 339-40).

ummiyant- is glossed ‘young’ at P 48, presumably reading **up-* (10.21) + *miyant-* (< *mai-*), lit. ‘(barely) grown up’.

14.15 — OLD — *wezzapant-*, *wizzapant-* is an embedded nominative *wizza panza* ‘the year (is) gone’, used attributively as a possessive compound (cf. *Stamm* 392). Possibly Luw. *waspant-* (P. Meriggi, *OLZ* 1962: 259).

**miyahuwant-* ‘old’ is inferrable from *miyahuwandatar* ‘old age’ and *miyahuwantes-* ‘grow old’, fr. *mai-*, *miya-* ‘grow’, 12.53.

14.16 — EARLY — The central meaning of *karū* (Hier. *ruwan*) is ‘formerly, previously, of old; already, hitherto’, and of adj. *karuwili-* ‘former, ancient’. A connection with *karuwariwar* ‘at

dawn, early in the morning' (14.43) is generally assumed, prompting comparisons such as that with ON *grýjandi* 'dawn', OSwed. *gry* 'to dawn', etc., with Hitt. *karū* < IE **ghrēw* (Čop, *Indogermanica minora* 5-6). T 526-28 records several other suggestions.

14.18 — NOW — *kinun* represents IE **ki-* 'this' (or loc. **kei*) + **nū* 'now' (Gk. *vūv*, OE *nū*, Lith. *nù*, OCS *nyně*, Skt. *nū[nam]*, Av. *nū* [Toch. A *nū*, B *no* 'but']), lit. 'this now'. Analogues are found in SCr. *sada* (OCS *sī* 'this') and OIr. *indorsa* (**ind ór-sa*), and an exact match, with elements reversed, in Lat. *nunc* < **num-ce* (DSS 962-63, T 480-81). The Luw. equivalent *nanun* is similarly formed (DLL 74), with obscure *na-*.

14.19 — SOON; IMMEDIATELY — *lammar* 'this moment, right away' is an adverbial specialization of the primary meaning 'hour, instant', much like its cognate OLat. *numerō* 'in time, right away'; see 14.51 (cf. Puhvel, *Kratylos* 25 [1980]: 135-36).

hudak 'immediately', adv. from *huda-* 'haste', is most likely related somehow to *huya-*, *huwai-* 'run' (10.46), though the details are unexplained (T 318-19).

1-*anki* 'once' parallels Engl. "at once"; cf. 13.44 for formation. *hantezzi* 'right away, first (thing)', cf. 13.34.

14.21 — SWIFT, FAST, QUICK — *piddalli-*, *pittiyali-* 'swift, quick, fleet' (e.g. *pittiyalis* GİR-as 'fleet of foot') is from *pittai-* 'run, flee, fly' (10.37), with a nuance of speed or agility in escaping (cf. ^{LU}*pittiyant-* 'fugitive'); see Puhvel, *Hethitisch und Indogermanisch* 212 = AI 359.

Adj. *nuntariya-*, cf. 14.23.

liliwant- 'swiftly flying' is from *lilivahh-* 'go quickly, hasten; fly' (CHD 3.61-62), of unknown origin.

14.23 — HASTEN, HURRY — *nuntariya-* and caus. *nuntarnu-*, with adj. *nuntariya-* ‘swift’ and the adverbial gen. sg. *nuntaras* ‘quickly’, arise from *nuntar-* ‘haste’, possibly **nun-tr-* from *nun* ‘now’ as in *kinun* (14.18; EHS 274).

14.24 — DELAY — *istantai-* ‘linger, delay, put off’ (caus. *istantanu-*) is from IE **steA₂-* ‘stand’, probably via a noun **stA₂-nt-* like OE, ON *stund* ‘while’, and thus parallel to NHG *stunden* (P 464-65).

zaluless-, *dalukess-*, caus.-trans. *zalu(g)a(nu-*, factitive from *daluki-* ‘long’ (12.57) and cognate with Czech *prodlévati* ‘delay’, cf. OCS *prodliti* ‘prolong’, *dlŭgŭ* ‘long’.

14.25 — BEGIN — ‘To begin’ doing something is expressed by the supine of the verb (normally the iterative-durative stem) plus *dai-*, e.g. *memiskiuwan dais* ‘he began speaking’.

14.252 — LAST (vb.) — A verb is lacking; the notion appears in *ukturi-* ‘firm, (ever)lasting, durable’ from IE **Aéw-g-* ‘be strong, grow’, Skt. *ójas-*, Lat. **augus-* ‘strength’, Skt. and Av. *ugra-* ‘strong’, etc.; cf. AI 224.

maz(z)-, *manz-* ‘withstand, endure, offer resistance’ (CHD 3.213-14), etym. unknown.

14.27 — FINISH — ‘To finish, bring to an end’ is a secondary development of the basic sense ‘pick up, carry off, carry out’ of *karp-*, 10.22.

zinna- ‘stop, cease; finish’, 14.28.

14.28 — CEASE — *zinna-* (iter. *zimmiski-*), used especially with inf. for ‘stop, cease’ doing something; also absolutely ‘be finished,

be ready'; cf. *EHS* 567. Comparison with Lat. *sinere* 'let alone, allow; cease' (Eichner apud Oettinger, *Stammh.* 151-52), as a nasal-infixed form from IE **seyE₁-*, is conceivable. Also to be considered is Skt. *kṣināti*, *kṣinōti* 'destroy', Gk. *φθίνω* 'wane, decay, perish; destroy', *φθινόπωρον* 'autumn' (Petersen, *Mélanges H. Pedersen* 471). Still other suggested cognates include IE **sen-* 'grow old' (Benveniste, *BSL* 50 [1954]: 33-34), Gk. *θανεῖν* 'die' < IE **dhwen-* 'expire, disintegrate' (Carnoy, *Orbis* 1 [1952]: 426), and Gk. *σίνωμαι* 'damage; rob, plunder', OE *þwīnan* 'grow soft, fade away' < **twin-y-* (Georgiev, *KZ* 92 [1978]: 94-96, positing general IE **tw-* > Hitt. *z-*).

14.31 — ALWAYS — *kuwapiya-* 'always, everywhere' is formed from *kuwapi* 'when; where' plus the "generalizing" enclitic *-a* 'and' (cf. Lat. *-que* in *quisque*, etc.; *EHS* 349, 351). *kuwapi* in turn comprises IE **k^wo-* (Lat. *qui*, Osc. *púi*, etc., *IEW* 648) and the adverbial suffix **-bhi*, thus paralleling Osc. *puf* 'where; when' (= Lat. *ubi*, by false division in *alicubi*, *sicubi*, etc.); cf. T 693-94.

14.32 — OFTEN — The sense of frequent or repetitive action is regularly given by the iterative morpheme *-ski-* (e.g. *apiez-kan uddanaz arha akkiskanzi* 'on account of that matter people are often killed'), from IE **-sk-* seen in Skt. *gácchati*, Gk. *βάσχω*; Lat. *crēscō*.

14.34 — NEVER — *nūmān*, *nūwān*, etym. ?

14.35 — AGAIN — *appa*, adverb, postpos. and preverb 'back; behind; after(wards); again', etc. (EGIR[-*pa*]); Luw. *appa(n)-*, Hier. *apa(n)*, Lyc. *epñ*. From IE **epi-*, **opi-* (Gk. *ἐπί*, Myc. *o-pi*), with final variation as in Hitt. *katta(n)* (Gk. *κατά*) vs. *katti-* (*κασι-*); cf. Skt. *āpi* 'also', Gk. *ὀπισθε(ν)* 'behind, after', etc. (*IEW* 323-25, P 91-94, T 41-43).

14.41 — DAY — The Anatolian representative of IE **dyēw-*, **diw-* (Lat. *diēs*, *Iū-piter*, Gk. *Ζεύς*, Skt. *dyāus*, *diva-*, OIr. *dia*, Arm. *tiw*; Lith. *dienà*, OCS *dñĩ*, Goth. *sin-teins*, etc.) is Hitt. *siwat(t)-* ‘day’, Luw. *Tiwat-*, Pal. *Tiyaz* ‘sun, sun-god’, **dyew-* with abstract-forming suffix *-at(t)-* (HWb. 195). The fateful connotations of (*attas*) *annas siwaz* ‘(father’s and) mother’s day’ = ‘day of death’ are discussed by Puhvel in *Studia ... A. Pagliaro* 3.169-75 = AI 198-204 and AI 205-9.

14.42 — NIGHT — Hitt. *ispant-* (and deified ^D*Isphant-*, ^D*Ispanzasepa-*), the normal term for ‘night’ (GE₆[.KAM]), is thought to reflect **(k)spñt-* or **(k)spñt-*, comparable with Skt. *kṣap-*, Av., OPers. *xšap-*, NPers. *šab* (**ksep-*), Av. *xšapar-*, *xšapan-*, *xšafn-* (**ks[e]pr-/n-*), and possibly also Lat. *vesper*, Gk. *ἑσπέρα*, W. *ucher*, OCS *večerŭ*, Arm. *gišer* ‘night, evening’ (e.g. Götze - Pedersen, MS 60; Goetze, Lg. 30 [1954]: 357; E. P. Hamp, *Revue des études arméniennes* N.S. 3 [1966]: 13.15). While agreement on the root is general, further formational details are in dispute; cf. P 431-35, T 409-11 and refs.

The large group including Lat. *nox*, OIr. *nocht*, W. *-noeth*, Goth. *nahts*, Lith. *naktis*, Gk. *νύξ*, Alb. *natë*, Ved. *nakt-*, etc. is joined by Hitt. *nekuz*, indicating IE **nekwt-*, **nokwt-*, and occurring in the petrified phrase *nekuz mehur* ‘night’, lit. ‘the time (is) night’ (DSS 992), *nekuzzi* ‘evening falls’.

14.43 — DAWN — The most convincing analysis of the neut. *kariwariwar* ‘daybreak, early morning’ (also commonly adverbial ‘at daybreak’) is **kariw-* (< **ghrēw-*, see 14.16) + denom. *-ariya-* (cf. *gimmandariya-* ‘spend the winter’) + abstract *-war* (P s.v.) Folk-etymology based on *karū* ‘early, former(ly)’ and *arai-* ‘rise’

produced variants such as *karuwar(i)war* and *karū ar(r)iwar*, interpreted as ‘early rising’.

Other explanations, taking the forms with *karu-* as primary (e.g. Hrozný, *SH* 79, n. 5) or comparing RV *śárvarī* ‘dusk, night’ (Benveniste, *BSL* 50.1 [1954]: 41), fail to account for *kariwariwar* (T 530-31, P s.v.).

Beneath adverbial *lukat*, *luk(k)attar*, *luk(k)at(t)i* ‘at dawn, toward daybreak’ (directional dat.-loc. forms) lies a **lukkāt-* < **lewkot-* (cf. *siwat-*), matching Goth. *liuhap* ‘light’ and cognate with Skt. *roc-* ‘shine’, Gk. λευκός ‘bright’, Lat. *lūx*, etc.; cf. Hitt. *luk(k)-* ‘grow bright, dawn’ and for meaning SCr. *svanuće*, Pol. *świt* ‘dawn’: OCS *světŭ* ‘light’ (*CHD* 3.74-79; Puhvel, *Kratylos* 25 [1980]: 138).

14.44 — MORNING — *lukat*, *lukkatta*, etc.; see 14.43.

14.45 — NOON — Adv. UD.HI.A-*ti istarna pidi*, lit. ‘on the day at mid-point’; similarly *istarna* UD.HI.A-*ti* and *istarni* UD.KAM-*ti*; cf. P 480-81.

‘It is mid-day’ appears as UD-*az taksan tiyazzi*, lit. ‘the day approaches the mid-point’ (see 6.33); cf. Lat. *merīdiēs*, OIr. *medón láí*, OE *middæg*, Gk. μεσημβρία, etc., and esp. Latv. *dienasvidus* ‘day’s middle’ (*DSS* 996).

14.46 — EVENING — See ‘night’, 14.42.

14.47 — TODAY — Hittite forms two compounds of demonstrative pron. + *siwat(t)-* ‘day’. With the oblique stem *ked-* of *ki-* ‘this’ is *kedani siwatti*, matching Gk. σήμερον, Lith. *šiañdie(n)*, OCS *dñiši*, NHG *heute*, Goth. *himma daga*. Hitt. *anna-*, *ani-* ‘that’ < IE **ono-* + (suffixless) loc. gives *anisiwat* and *a-ni*-UD.KAM-*ti* (KBo XXIV 126 Vs. 27); cf. Skt. *adyā*, OIr. *indiu* (T 563-64, P 51-52).

14.48 — TOMORROW — *lukat*, *luk(k)atta*, etc. ‘at daybreak’ can mean by extension ‘on the morrow, (early) the next day’, see 14.43 (CHD 3.76-77), as in Sp. *mañana*, OE *tō morgen*, Lith. *rytój*, Pol. *jutro*, etc. (DSS 999).

parā siwatt- ‘next day’ (cf. Skt. *pra-dīvi* ‘forever’) and *appasiwatt-* ‘after-day, the future’ provide clues to the Hittites’ conceptions of the directionality of time; cf. Puhvel, *Kratylos* 25 (1980): 138; JAOS 100 (1980): 168; P 97-98.

14.49 — YESTERDAY — Interestingly enough, there is no attested Hittite expression for ‘yesterday’ or ‘the day before’, despite the existence of a common PIE **(dh)ǵh(y)es*.

14.51 — HOUR — *lammar* denotes a small unit of time, less than a whole day, something from ‘hour’ to ‘moment’ (cf. the adverbial use *lammar* ‘momentarily, on the instant’), much like e.g. Goth. *hweila* or ON *stund*. It also means ‘appointed time’ (cf. *lammar handai-* ‘fix the hour’), and *lammar lammar* is approximately ‘every minute’ or ‘constantly’ (cf. CHD 3.36-37; Puhvel, *Kratylos* 25 [1980]: 135-36). The form itself is from IE **nóm̥r* (with dissimilation as in *laman-* ‘name’ [18.28]); cf. Lat. *numerus* ‘number, measure, time’ (IEW 763-64; cf. e.g. Duchesne-Guillemin, *TPhS* 1946: 85).

14.52 — MINUTE, SECOND — In addition to *lammar* ‘moment, minute; hour’ (14.51), Hitt. had *pantala-* to indicate a very short interval or instant of time, or perhaps ‘Zeitpunkt’ vs. a measurable time-span. To derive this from *pant-*, part. of *pai-* ‘go’ (as N. Van Brock, *RHA* 20 [1962]: 92; Oettinger, *Stamm* 392) is unconvincing. Also to be considered is a connection with Lat. *pend-* ‘hang (on scales, weigh)’, comparing *mōmentum* ‘decisive movement, dipping of scales’ (P s.v.).

14.71 — MONTH — The general term is the same as that for 'moon', *arma-* (1.53), Sum. ITU. Lyc. *rn̄mazata* 'monthly prestation (?)' probably belongs here, but Lyd. *ora* 'month' (Gusmani, *Lyd. Wb.* 61-62, 178) is not cognate (cf. P 153).

14.72 — NAMES OF THE MONTHS — The names of several months are attested, but only ideographically: ^{ITU}BÁR.ZAG.GAR (the 'first month' of the year in spring, Akk. *Nisannu* [*Alimenta* 61]), ^{ITU}ŠU.NUMUN.NA, ^{ITU}NE.NE.GAR, ^{ITU}KIN.^DINANNA, ^{ITU}DU₆.KÙ (*EHGl.* 59).

14.73 — YEAR — *witt-* (MU[.KAM]) attests the PIE root noun **wet-*, found peripherally in Skt. *par-út* 'last year', Gk. *πέρυσσι*, and extended to an *s*-stem in *ἔτος*, Lat. *vetus*, Alb. *vit*, *vjet*, etc. (Gusmani, *Lessico* 22). The variant *wettant-* may contain a nuance something like that of Fr. *année* vs. *an*; cf. also H. *gem-*, *gimmant-* 'winter', *hamesha-*, *hameshant-* 'spring', *zena-*, *zenant-* 'autumn'.

14.74 — WINTER — Gk. *χειμών*, Skt. *hemantá-* are matched by H. *gimmant-* (ŠE₁₂, KUŠŠĪ), with a short form *gem-* corresponding to Avest. *zyam-*, Lat. *hiems*, OIr. *gem-red*, Lith. *žiemà*, OCS *zima*, etc. (*HWb.* 109).

'To spend the winter', referring to troops, was OHitt. denom. *gemiya-*, classical *gimmandariya-* (*Alimenta* 13, 50).

14.75 — SPRING — *hamesh(a)-*, *hameshant-* (also *hameskant-*; ideogr. Ú.BURU₇, TE-ŠI = Akk. *dīšu*) has steadfastly resisted all attempts at explication. Connection with Gk. *ἔαρ*, Lat. *vēr*, Skt. *vasantá-*, etc. (e.g. Pedersen, *Hitt.* 197) requires a reconstruction on the lines of **hmesh-ŋ-* < **H₁wes(H₁)-ŋ-*, with questionable shift of *-w-* to *-m-*. Phonetic difficulties are only multiplied by the assumption

of a **hant-wesha-* (Goetze, *Lg.* 27 [1951]: 469-71), and while Hoffner (*Alimenta* 15) adduces Akk. *pān šattim* in support of the prefix **hant-*, his own suggestion **hant-miyasha-* fr. *mai-*, *miya-* 'grow' does not escape them. Comparison with Gk. ἀμᾶω, Lat. *metō*, OHG *māen* 'harvest, mow' (e.g. Sturtevant, *Lg.* 4 [1928]: 163; Benveniste, *Origines* 157), if correct, would make this month equivalent to the harvest season, BURU_x (contrast *Alimenta* 15-16), indicating a three-season system of autumn, winter, and planting/harvest. See T 143-44.

14.76 — SUMMER — The summer season was designated with the *sumerogram* for 'harvest', BURU_x-a- (cf. *Alimenta* 24-30); see 14.75.

14.77 — AUTUMN — *zena-*, *zenant-*, cf. IE **sen-* 'grow old' (Benveniste, *BSL* 50 [1954]: 33-34) or IE **es-en-*, **os-en-* 'harvest-time' (Russ. *ósen'*, etc.; *IEW* 343) (Puhvel, p.c.).

14.78 — SEASON — *mehur* 'time', 14.11.

SENSE PERCEPTION

15.11 — PERCEIVE — The underlying meaning of Hitt. *istanh-* < IE **stem-H₁-* is ‘perceive with the senses’, as shown by its specialization in several different directions: cf. *istanh-* ‘taste’, Gk. στόμα ‘mouth’, etc. vs. H. *istaman(a)-* ‘ear’ and IGI.HI.A-as *istamassuwar* ‘eyesight’ (see 4.22).

The nearest thing to an Anatolian terminology for the physical senses may be found in such designations as ^D*Istamanassas* and ^D*Sakuwassas*, deities of hearing and vision (P 459).

15.25 — FRAGRANT — Probably *sanezzi-* ‘sweet’, 15.35 (HWb. 181).

15.31 — TASTE — The only quotable Hitt. form is *ista(n)h-*, used solely in the “subjective” sense, and seemingly more that of NHG *kosten* than *schmecken* (P 463-64), and ^{SAL}*istahatalli-* ‘taster’. For etym. see 4.22 and T 420-21.

15.35 — SWEET — A suffix **-tyo-* seems assured for *sanezzi-*, *sanizzi-*, as suggested by Lohmann, *IF* 51 (1933): 324-26 and *EHS* 168-169. The identity of the first part depends on the precise meaning; a proposed ‘first class, excellent; extraordinary’ prompts comparisons with *sannapi-* ‘alone, single’ (13.33; cf. *EHS* 168) or Skt. *sanutār*, Goth. *sundrō*, OIr. *sain* ‘apart, separate’, Gk. ἄτερος, ἄνευ, Lat. *sine* ‘without’ (cf. Lohmann, loc. cit.).

maliddu-, adj. from *milit-* ‘honey’ (5.84); cf. W *melys* (> OIr. *milis*) fr. *mel*, also Skt. *madhurá-* < *madhu-*.

15.38 — ACID, SOUR — Akk. *emṣu* (HWb. 308, *Alimenta* 197).

15.41-15.42 — HEAR; LISTEN — *istamas(s)-*, *isdammās(s)-* ‘hear, listen’, also ‘obey’, Luw. *tumma(n)tai-*, *tum(m)anti(ya)-* ‘hear’, are related to the words for ‘ear’ from a verbal root **stemH₁-* ‘perceive’ (see 4.22).

15.43 — HEARING — *istamass(uw)ar*, vbl. noun fr. *istamas-* ‘hear’, 15.41, also means ‘obedience’.

15.51 — SEE — *au(s)-*, *u(wa)-* (AMĀRU) is ‘see, look, observe, inspect’, also ‘read’. The *mi*-conjugation forms with *aus-* (e.g. 3 sg. pres. *auszi*) and further iter. *uski(ya)-* arose from paradigmatic restructuring of an original *au-/u-* < **A₂ew-/A₂u-*; cognates are Skt. *ávati* ‘observe, notice’ and *āvis*, Av. *āviš*, OCS *javě* ‘openly, clearly’, Gk. *ᾄω* ‘perceive’, OCS *umŭ* ‘intelligence’ (IEW 78; cf T 95-98, P 234-44). Iter. *uski-* may have been borrowed as Arm. *skem* ‘guard, watch’ (Schultheiss, KZ 77 [1961]: 222).

15.52 — LOOK — Besides *au(s)-*, *u(wa)-* (15.51) is also used *sakuwvai-* ‘to eye, watch (over)’, denominative from *sakuwva-* ‘eye’ (4.21); cf. Gk. fut. *ὄψομαι*, Avest. *aiwi-akš-* ‘watch over’ < **ok^w-*.

For *suwaya-* ‘peer, look out’ (HWb. 200), Oettinger (*Stamm* 296-97, 396) posits **swA₂-yé-*, root-connection?

15.53 — SIGHT — *uwatar*, vbl. abstract fr. *au(s)-*, *uwa-* ‘see’, 15.51.

15.55 — SHOW — Comparison of *tekkussai-*, *tekkus(sa)nu-* ‘show, present’ with Lat. *dīcō*, Skt. *diśāti*, etc. < IE **deyǵ-* ‘point, show’ (HWb. 220) is unconvincingly defended (Stamm. 354-55) by calling it an *-us*-stem and comparing *nakkussiya-* ‘be unclean’ (< ‘stigmatized’). A more cogent approach compares Avest. *daxš-* ‘teach’, *daxšta-* ‘sign, characteristic’ (Goetze, Lg. 27 [1951]: 471; AI 263).

15.56 — SHINE — The basic IE **lewk-* (Lat. *lūcēre*, OE *leohtan*, Skt. *roc-*, *ruc-*, etc.) is reflected also in H. *luk(k)-* ‘grow bright’ and especially the reduplicated derivs. *lalukki-* ‘be luminous’ (cf. *lalukkima-* ‘source of light’, 1.61), *lalukkes-* and *lalukkesnu-* ‘shine, glow, gleam’, etc. (CHD 3.28-30, 74-76). Cf. Knobloch, *Kratylos* 4 (1959): 38.

misriwess- (fact. *misriwahn-*), fr. participial adj. *misriwant-* ‘shining’ (Stamm. 241 and n. 5), may be from an IE **meys-* ‘glimmer, shimmer’ (IEW 714; cf. Skt. *miśāti* ‘open one’s eyes’, LG *mīs* ‘cloudy, rainy weather’, possibly ON *mistr*, OE *mist* ‘fog, mist’) + *-ri-* (Neumann, KZ 75 [1957]: 88).

15.57 — BRIGHT — *lalukkiwant-* and *misriwant-* ‘shining’; see 15.56.

asara- and *harki-* ‘white’, see 15.64.

15.63 — DARK — The basic term is *dankui-* ‘dark, black’ (GE₆), cognate with NHG *dunkel*, ON *dǫkk* (NE *dank*), etc.; cf. 1.62. Verbal derivs. include intrans. *dankues-*, *dankuiski-*, and trans. *dankunu-*, *dankunai-*.

kappant-, meaning ‘dark’ when referring to the moon, is best interpreted as ‘waning’ and derived from *kappi-* ‘small’, 12.56; cf. Puhvel, *Bi. Or.* 38 (1981): 353 vs. T 489.

15.64 — WHITE — With *harki-* ‘white, bright’ (BABBAR) are to be compared Gk. ἀργός, ἀργι-, Skt. *árjuna-*, Toch. A *ārki*, B *ārkwī*, etc. (IE **A₁r[e]g-*, IEW 64-65; standard since Sturtevant, Lg. 6 [1930]: 127-28), and also many of the IE words for ‘silver’ (9.65). Regular derivatives are *inch. harkes-* ‘turn white’, *caus. harganu-* ‘whiten’. T 177.

asara-, *esara-* ‘white, bright’, referring specifically to strands of wool, has been reconstructed **ays(k)-ro-* (with common *-ro-* color suffix) and compared with OCS *iskra* ‘spark’, Lith. *aiškus*, *iškùs*, OCS *jasnŭ* (< **ays[k]-no-*) ‘clear’ < **ays(k)-* ‘bright, clear’ (Puhvel, JAOS 100 [1980]: 167, BHD ... Kerns 239, P 206-7); cf. 17.34.

15.65 — BLACK — *dankui-*, see 15.63.

A supposed *hanzana-* ‘black’ (e.g. Laroche, RA 47 [1953]: 41) is dismissed by Puhvel, BHD ... Kerns 237-40.

15.66 — RED — The Hitt. pronunciation of SA₅, *mida-/midi-*, is probably a Mediterranean culture-word, as shown by the *d ~ l ~ n* variation in Gk. μίλτος and Lat. *minium* ‘red ochre’ (Puhvel, BHD ... Kerns 238).

Adj. *ēsharuil*, *isharuil* (qualifying KUŠ ‘hide’) refers to the familiar dark red color of blood (4.15), cf. **esharu-*, **isharu-* ‘bloodiness, blood-color’ > denom. *isharwai-*, *isharwiya-* ‘to bloody, redden’, part. *isharwant-* (P 311-12).

15.67 — BLUE — *antara-* (ZA.GÌN), with frequent color-suffix *-ro-*, belongs with SCr. *modar*, Cz.-Slovak *modrý*, being from **m̥d(h)-ró-* (V. Machek, AO 17.2 [1949]: 131-32). A variant *antarant-* also exists, as do denom. *antariya-*, *antareski-* ‘make blue’. P 77-78, T 35.

15.68-15.69 — GREEN; YELLOW — This middle range of the visible spectrum is designated *hahlawant-*, *hahliwant-* (SIG₇[.SIG₇]), HAZERTI) from a basic adj. *hahli-/hahla-* (cf. *midi-/mida-* ‘red’), connected with *hahhal-* ‘greenery, vegetation’ (*hahhaluwant-* ‘verdant’), of unknown origin (T 121-22).

15.71 — TOUCH — Possibly *salik-*, etym. unknown.

15.74 — HARD — The sense is included in *ukturi-* ‘firm, durable’, 14.252.

15.75 — SOFT — *miu-* (and redupl. *miumi-*) is approximately ‘smooth, soft, mild; supple’, etc. (cf. HWb. 144, EHGl. 82), though Kronasser (EHS 121) preferred simply ‘smooth’. Etymology unknown.

15.76 — ROUGH — The most generic term is *warhui-* (HWb. 245). Etym. unknown—none of the many variations of IE **wer(H)-* seems to offer possibilities.

A basic sense ‘rough, untreated’ developed into ‘prickly, sharp; pointed’ and also ‘unrefined, uncouth’ in *dampu-* (and *dampupi-*) according to Puhvel, AI 345-48, who revitalizes the comparison (by M. Popko, JCS 26 [1974]: 181-82) with OCS *tǫpŭ*, Russ. *tupój* ‘blunt, dull, stupid’, also originally ‘rough, uncouth’.

15.77 — SMOOTH — *alpu-* ‘smooth, rounded, dull, blunt’ (inch. *alpue[s]-* ‘become blunt’) matches Lith. *alpūs* ‘weak’, which preserves the original meaning also in the verb *alpti* ‘become weak, swoon’; cf. the Hitt. part. *alpant-* ‘weakened, swooned’, also ‘mild’ (of cheese). See Puhvel, AI 345-48, *Gedenkschrift Kronasser* 181, P 39-41.

miu(miu)-, 15.75.

15.78 — SHARP — *dampu-*, see 15.76.

Skt. *tigma-*, Av. *tiγra-*, etc. < IE *(s)teyg- are cognate with H. *tēkan* 'hoe'; cf. 8.25.

15.79 — BLUNT, DULL — *alpu-*, 15.77.

On OCS *topŭ*, Pol. *tępu*, Russ. *tupóĭ*, etc. see 15.76.

15.81 — HEAVY — *nakki-* (DUGUD, Akk. *kabtu*) means 'heavy' and by extension 'difficult' and 'important' (Luw. *nahhuwa-* 'consider important'), with corresponding verbal senses in inch. *nakkes-* and fact. *nakkiyahh-* (act. and mpsv.) and the abstr. *nakkiyatar* 'weight, importance' (HWb. 148). The source is unidentified, beyond Kronasser's tentative connection (EHS 210) with *ninink-* 'raise'.

A more archaic and basic term is *suwaru-*, adj. 'heavy, weighty, mighty' and adv. 'heavily, mightily, greatly', preserved perhaps through Palaic influence and cognate with OE *swær*, NHG *schwer*, Lith. *svarūs* (with matching *u*-stem) 'heavy', *sverti* 'weigh', Goth. *swērs* 'honored', Lat. *sērius* 'grave, serious' (Puhvel, *Bi. Or.* 36 [1979]: 57; JAOS 101.1 [1981]: 213-14).

'Heavy; difficult' is also a secondary meaning of *dassu-* 'solid', etc.; 4.81.

15.82 — LIGHT — Hitt. uses *pittalwa(nt)-* 'thin, light'; see 12.65-12.66.

15.83 — WET, DAMP — Though the adj. is masked by the akkadograph *LABKU*, inherited terminology survives in verbs for 'wet, moisten, sprinkle'. *hurnai-*, *hurniya-* (Pal. *huwarninai-*) and *hurnu-* match Gk. ῥαίνω 'sprinkle' < IE **H₁wr-n-*, fr. the root **H₁wer-* seen in Ved. *vār* 'rain', Toch. A *wär*, B *war*, ON *vari* 'water',

úr 'drizzle', etc. (IEW 80-81), and also in H. *warsa-*, Skt. *varṣám* 'rain', Gk. ἔρση 'dew' (1.75).

hapai- 'wet, moisten' or similar is likely connected with *hapa-* 'river' (1.36), as T 160.

15.84 — DRY — **A₁ed-* 'dry' (Lat. *ador* 'far tostum') appears in *hat-* 'be dry', inch. *hates-*, caus. *hatnu-* 'dry up', and *hadant(i)-* 'dry land, shore' (1.26).

tepsu- (verbs *tepsawes-*, *tepsanu-*) is not likely allied with *tepu-* 'small' (EHS 252), but perhaps IE **tep-* 'warm'; cf. OIr. *tess* 'heat' < **teps-tu-* (DSS 1077).

Su. HÁD.DU.A.

15.85 — HOT, WARM — *ānt-*, participial adj. of *ā-*, *ay-*, *ē-* 'be hot' (inch. *ayis-*, caus. *enu-*), from IE **ay-(dh-)* 'burn, be hot' and akin to Gk. αἶθω, Skt. *inddhē* 'kindle', etc., IEW 11 (Sturtevant, Lg. 14 [1938]: 70; T 3-4, P 10-12).

wantai- (and *wantes-*) 'be hot', also 'be angry', forms *wantais* 'heat' and *wantiwant-*, *wantemma-*, etc. 'lightning' (1.55). Positing a base-meaning 'scorch, dry up (with hot coals)' for the reconstruct IE **wendh-*, Carruthers (Lg. 9 [1933]: 158-59) compared OCS *uvędati* 'wither', Skt. *vandhya-* 'unfruitful' as well as Gk. ἄνθραξ 'coal, ember' (< *ἄνθ-ρο-ακ-) and ἄνθροσκον, ἄνθρίσκος 'wild chervil', also considering OE *wundor* (originally **glowing, dazzling object*?).

The synonym *hantai-* (with *handais* 'heat'; *handaisi mehani* 'in the hot time' = 'during the day') was compared with OIr. *and-* 'kindle' by Pedersen (Hitt. 48), but may be merely a rhyme-word to *wantai-*.

15.86 — COLD — The adj. *ekuna(nt)-* (KAṢŪ), noun *ekunima-*, and verbs *egai-*, *ikunes-*, *ikunahh-*, are all from *eka-* ‘ice, frost, cold’ < IE **yeg-*; 1.77.

15.87 — CLEAN — *parkui-* (vbl. noun *parkuessar*, inch. *parkues-*) reflects IE **bhrHĝ-w(e)i-* fr. the root **bherH-ĝ-*, **bhreH-ĝ-* ‘white, shining’ (IEW 139), seen in e.g. Skt. *bhrājate* ‘shine, glimmer’, Lith. *brėksti* ‘break (of the day)’, Goth. *bairhts*, ON *bjartr*, OE *beorht*, NE *bright*, etc., and in the name of the birch tree (Sturtevant, *Comp. Gr.*¹ 122). Similar semantic development can be found in Ital. *netto*, Fr. *net* fr. Lat. *nitidus* ‘polished, shining’ and possibly OE *clæne* : OIr. *gel* ‘bright’, Gk. γλήνη ‘eyeball’.

halali- is a Luwianism, from a Semitic source as in Akk. *ellum* ‘clean’, Hebr. *hll* ‘shine’ (Laroche, *DLL* 38, *RHA* 23 [1965]: 45; Otten, *Bestimmung* 110-11; T 126).

suppi-, *suppiyant-* ‘(ritually) pure’, with vbl. abstract *suppiyatar*, factitive *suppiyahh-* (> Arm. *šphem* ‘rub, cleanse’, Schultheiss, *KZ* 77 [1961]: 222); origin unknown.

15.88 — DIRTY — *saknuwant-* ‘filthy, (ritually) unclean, befouled’ is denom. from *sakkar* ‘excrement’ (4.66).

iskunant- (referring to stained cloths in GAD.HI.A *iskunanta*), part. from a verb variously attested as *ishuna(hh)-*, *iskuna(hh)-* ‘stain, stigmatize, demean’, etc. and possibly ‘demote’, from an original meaning ‘make ugly’, and thus both a formal and semantic match for Gk. αἰσχύνω ‘dishonor, put to shame’ < *‘make ugly’ (Puhvel, *AI* 373-78 + 417-18; *Bi. Or.* 38 [1981]: 350-52; *Gedenkschrift Kronasser* 181, 183; P 426-28).

EMOTION; TEMPERAMENTAL, MORAL, AND AESTHETIC NOTIONS

16.11 — SOUL, SPIRIT — For *istanza(n)-* (ZI), a reconstructed IE **s(t)ent-to-*, similar to **sent-no-* in OHG *sin(n)* ‘sense, mind’, Lith. *sintėti* ‘think’ and **sent-tu-* in Lat. *sensus* (IEW 908), provides the best available etymology (P 471), a comparison compelling enough to overcome the phonological peculiarity of **st-* vs. **s-* (P 471) and supersede previous suggestions (as in T 431-32). The range of meanings is wide; besides ‘soul, spirit; mind; will’, i.e. the seat of both emotions and intellect, it is also used in pl. for ‘living things, persons’ (like Russ. *dúši* and NE *souls*).

16.14 — CARE (sb.) — Perhaps the closest Hitt. equivalent to the notion of ‘serious mental attention, concern’ is the verb *hantiyai-*, from adv. *hanti* ‘firstly, especially’ or the like (cf. *hantezziya-* ‘first’, 13.34 and *hant-* ‘forehead’, 4.205), with a base-meaning ‘grant priority, attach importance to’.

16.18 — GOOD FORTUNE — ‘Good fortune’ was for the Hittites the natural by-product of the ‘favor of the gods’ (or the king!), *siunas assul* (SILIM-ul ŠA DINGIR-LIM), with *assul(a)-* ‘favor, friendship; greetings; well-being’ < ‘good(ness), well-being, wealth’ < *ass-*, *assiya-* ‘be favored, dear, good’ (16.71; cf. P 202-4). A more generic term for ‘fortune, fate, luck’, good or bad, has not been found, and is not reflected in the Hitt. terminology for (good

vs. bad) luck as it is e.g. in NE (*good* vs. *mis-*)*fortune* (cf. DSS 1096-99).

16.19 — MISFORTUNE — In this meaning are found several derivatives of a single basic root, the primary form being *arpa-* ‘bad luck, misfortune, setback’ (denom. *arpai-* ‘be unlucky, turn out badly’), with parallel **arpu-* seen in *arpuwai-* ‘be unlucky, troublesome, or hazardous’, Luw. *arpuwan(n)i-* ‘unlucky’, and further related forms Hier. ^{MOUNT}*Arputawanas* ‘living on Mt. Arpuwant’, epithet of a storm-god, and possibly Lyc. *erbbe* ‘defeat’ (see P 168-69). The underlying *arp-* points to an IE **H₂(e)rp-*, with the alternate form **H₂rep-* found in Ved. *rāpas-* ‘defect, injury’, *raphitá-* ‘overcome, wretched’ (Couvreur, *Hett.* H 105); the question of a further link with IE **rep-* ‘snatch’, Lat. *rapere* (IEW 865) remains open (cf. KEWA 3.41 vs. T 65-66).

16.21 — PLEASE — The sense of ‘be pleasing’ is central to H. *ass-*, *assiya-*, and especially caus. *as(sa)nu-*, *assiyanu-*, and is also expressed as *assus es-* ‘be pleasing, be favorable’; cf. P 189-204 and 16.71 below.

16.22 — JOY — *dusgaratt-* and *dusgaratar*, verbal abstracts fr. *duski-* ‘be happy’ < **t(e)us-ski-*, cognate with Skt. *túṣyati* ‘be delighted with’ < IE **t(e)us-* (Petersen, AO 9 [1937]: 211; Sommer, HH 73) but separate from *tūṣṇīm* ‘quietly’, Russ. *tušít’* ‘extinguish’, Lith. *tausýtis* ‘die down’ (of wind), OSw. *thyster* ‘silent’, OIr. *tuae* ‘silence’, MW *taw* ‘be quiet!’, H. *tuhus(s)iya-* ‘look on quietly’ < **tuH₁-s-* (*Stammb.* 326).

16.23 — JOYFUL, GLAD — *duskarawant-*, fr. *dusgaratar* ‘joy’, 16.22.

16.24 — HAPPY; HAPPINESS — The modern Engl. senses are rendered by H. *duskarawant-* and *dusgaratar* (16.22-16.23), while the older meaning ‘fortunate, favored’ is found in such Hitt. forms as *assiyant-*, *as(s)anuwant-*, *asnu(w)ant-* ‘dear (to the gods)’; cf. 16.18, 16.71.

16.25 — LAUGH; SMILE — *hahhars-* is clearly imitative in origin, and may be ultimately related to Gk. *καχάζω*, Skt. *kákhati*, Lat. *cachinnō*, OHG *kachazzen* (IEW 634; cf. T 122-23 and refs.). The caus. part. *hahharsanant-* ‘scoundrel; bad’ (EHS 258, 395, 561) apparently prompts the gloss ‘höhnisch lachen’ (HDW 136), cf. classical Gk. *γελᾶω* > NGk. *γελῶ* ‘cheat’, via ‘laugh at, deride, despise’ (DSS 1106).

16.26 — PLAY — The source of *hinganiya-*, iter. *hinganiski-*, vbl. noun *hinganiyawar* ‘play’ (Akk. *mēlultu*) is uncertain. A connection with *henkan* ‘death’, via ‘fated death’ (cf. Benveniste, *Origines* 155; Puhvel, AI 203-4) > ‘allotment’ > ‘property’ > ‘enjoyment’ (R. Anttila, *Die Sprache* 18 [1972]: 43, comparing NHG *genug* : *Vergnügen*) is far-fetched; slightly less so is derivation from *hink-* ‘bow, show reverence’, caus. *hinganu-* (9.14; T 251).

16.27 — LOVE — *genzu-* ‘love, friendship’, denom. *genzuwai-* ‘love, be friendly to’, metonymically from *genzu-* ‘lap, womb’ (4.47).

The vbl. noun *assiyatar* < *assiya-* ‘be dear’, etc. (16.71) refers to conjugal love and related meanings, as in ŠA LÚMUDI D(A)M *āssiyatar* ‘love of husband (and) wife’ (P 190-91); cf. also *āssiyauwant-* ‘lover’.

ON *unna* and *ást* are probably to be compared with H. *ass-*, 16.71.

16.28 — DEAR — This is the basic sense of *assu-*, *assiyant-* ‘good, favored’, etc.; see 16.71 and Puhvel, KZ 94 (1980): 65-70; P 189-206.

16.29 — KISS — *kuwas-*, iter. *kuwaski-* has been connected for some time (since Sommer, OLZ 33 [1930]: 755 and Benveniste, BSL 33 [1932]: 139; cf. DSS 1112) with ON *kyssa*, OE *cyssan*, etc. and Gk. κυνέω, (Hom.) aor. κύσ(σ)αι, though the details and time-depth of the relationships are disputed; cf. discussions in T 695-96, Strunk, IF 78 (1973): 73-74.

16.31 — PAIN, SUFFERING — *a(y)i-* is primarily an interjection, concretized to mean ‘pain’, and appears especially in the rhyming phrase *ayin wayin* ‘pain and woe’ or the like; cf. Akk. *ai* (P 13-14).

maz(z)-, *manz-*, Luw. *mazzallasa-* ‘endure, withstand, tolerate, suffer, condone’, of unclear origin (CHD 3.213, 215). Laroche (RHA 23 [1965]: 51-52) compared Goth. *ga-motjan*, OE *mētan* ‘meet’ (IE **meHd-*), and for meaning Gk. ἀπαντάω ‘meet, oppose; attempt’.

16.32 — GRIEF, SORROW — *uwai-*, a frequent rhyming partner of *ai-*, *a(y)i-* (16.31), is plausibly likewise an original expressive interjection, like Lat. *uae*, Goth. *wai*, etc. (HWb. 239).

hazziyassar, vbl. noun ‘affliction’ from *hazziya-* ‘strike, afflict’ (EHS 289), from *hattai-* ‘chop, strike’ (9.22), probably **A₁ét-ye-* (Oettinger, MSS 34 [1976]: 125; T 231-32).

Also here is Luw. *luppasti-*, *lumpasti-* (DLL 64), connected with Gk. λῦπη by Hoffner (EHGl. 76-77, n. 148; JNES 27 [1968]: 65, n. 31).

A possible ideographic reading is DIRIG (Akk. *ašuštu*); cf. EHGl. 77, n. 149).

16.33 — ANXIETY — *pittuliya-* is explained as a noun corresponding to denominative *pittuliya-* ‘constrict, cramp, make anxious’ < *pittula-* ‘noose’ from a **pittul-*, and compared with Goth. *faþa* ‘fence’, IE **pet-(A-)*, **pot-(A-)* by Puhvel (*Hethitisch und Indogermanisch* 211 = AI 358), rejecting a tie-in with OE *fetel* ‘belt’, OHG *fezzil* ‘fetter’, Lat. *pedica* ‘shackle’ (by Duchesne-Guillemin, *TPhS* 1946: 83). The semantics parallel Lat. *anxius* ‘anxious’, *angere* ‘throttle, torment’, *angustus* ‘narrow’; OE *angnes*, OHG *angust* : OE *ange*, OHG *angi* ‘narrow’; SCr. *tjeskoba* : *tjesan* ‘narrow, tight’; Czech *úzkost* : *úzký* ‘id.’ (DSS 1121-22).

16.35 — PITY — Avest. *marždika-*, *mərəždika-* ‘pity; compassionate’ (Skt. *mṛḍika-* ‘favor’), *mərəžda-* ‘pardon’ might be considered as possible cognates of Hitt. *maz(z)-*, Luw. *mazzallasa-* ‘tolerate, endure’ (16.31); cf. e.g. Cz. *útrpnost* ‘pity’, (u)trpěti ‘suffer, endure’ and Du. *medelijden*, NHG *mitleiden* : *leiden* ‘suffer’.

16.36 — SAD — Perhaps closest to the meaning is *pittuliyawant-* ‘depressed, oppressed, anxious’, part. of *pittuliya-* ‘make anxious, oppress’ (16.33).

(*anda*) *impai-* ‘be depressed, be burdened’ is denom. from (*a*)*impa-* ‘weight, burden’, comparable with Gk. ἵπος ‘weight’, fut. ἵπομαι ‘oppress, vex, harm’, of unknown ultimate origin (P 14-15).

Cf. also the terms for ‘sorrow, grief’, 16.32.

16.37 — CRY, WEEP — Denom. *ishahru(w)ai-* fr. *ishahru-* ‘tear(s), weeping’ (16.38), as Gk. δακρύω, Lat. *lacrimāre*.

Cf. also *wāi-*, *wiyai-*, *wiwiya-*, 18.13.

16.38 — TEAR — Attempts to link *ishahru-* ‘tear(s), weeping’ with IE **daḱru-*, **draḱu-* require positing a shift **-k-* > *-h-* (e.g. *Stamm*b. 367) and reconstructions with initial-variation **s-A₁ḱru-*

(Hitt. *ishahru-*), **d-A₁kru-* (Gk. δάκρυ, OLat. *dacruma*, Goth. *tagr*, OIr. *dér*, W. *dagr*, etc.), **ǵ-A₁kru-* (Skt. *aśru-*, Lith. *ašarà*, Toch. A *ākār*, etc.), the latter perhaps ultimately related to **akri-*, **akro-* 'sharp, pointed', i.e. 'bitter' (P 390-94).

16.41 — HATE — A **kappila-* 'hatred' or 'rage' seems to underlie *kappilahh-* 'be furious', *kappilai-* 'incite, instigate', with *kappilalli-* 'hated' (Hier. *kapilali-* 'enemy, inimical'). Probably to be compared with Skt. *śāpati* 'curse' (Eichner, *Hethitisch und Indogermanisch* 61), pace T 493 ("semantisch bedenklich") and Čop, *Ling.* 2 (1956): 19.

Something like 'hatefulness' resides in *pukkanumar*, from the caus. *pukkanu-* to *pukk-* 'be hated' (HDW 65). Petersen (AO 9 [1937]: 208) derived it from an originally expressive **pū-(k-)* and compared Skt. *pūyati* 'stink', Gk. πύθομαι 'become rotten', Skt. *pūtiḥ*, Lat. *pūtidus*, Goth. *fūls* 'rotten, foul'.

sawar 'anger; hatred', 16.42.

Lat. *odium* is comparable with H. *hatuka-* 'terrible', 16.58.

16.42 — ANGER — *kartimmiyatt-* (TUKU[TUKU]-att), from *kartimmiya-* 'be angry', is patently related to *ker*, *kard-* 'heart' (4.44), in a relationship seen in many languages; cf. Russ. *serdit'cja* 'be angry' : *sérdce*, Lith. *širdýtis* : *širdis*, Alb. *zëmëronem* 'anger' : *zëmëre*, Arm. *sart-num* 'be angered' : *sirt*, Akk. *libbātu* 'rage' : *libbu* (Pedersen, *Hitt.* 40; DSS 1137; T 524-26). The form is generally thought to be denom. to a **kartimma-*, a midd. part. **karti-mna-* of *kard-* (thus Pedersen and EHS 179) or deverb. from a *kartai-* or *kartiya-* (P s.v.). Another possibility might be **karti* + *miya* 'grow in the heart'; cf. OHG *belgan* 'swell', refl. 'be angry', OE, OS *belgan* 'be angry' : OIr. *bolgaim* 'I swell'.

sawar 'anger, ill will' is from *sai-* 'be angry at, resent', from IE **séA₂-y-*, **sA₂-éy-*, compared with Lat. *saevus* 'raging', Latv. *sievš*

'biting, harsh', ON *sárr* 'painful', OIr. *sáeth* 'affliction' (P s.v.; cf. Juret, *Vocabulaire* 52; Čop, *Ling.* 10 [1970]: 100-1; Eichner, *Hethitisch und Indogermanisch* 61).

karpi- 'anger, rage', *karpes-* 'get angry', *karpiya-* 'be angry' is compared with Skt. *kṛpate* 'lament' or Gk. *καρπάλιμος* 'swift, impetuous' by Puhvel, P s.v.

harsallant- 'angry' (Hier. ANGER-*i-* 'be angry'), etym. unknown.

16.43 — RAGE, FURY — The only attested noun is *karpi-* 'anger, rage'; see 16.42.

argatiya- is in origin a compound meaning 'stoop to rage, come to violence', from *tiya-* 'step, go' (10.45) plus a dat.-loc. **arga* 'frenzy, passion', related to *ark-* 'mount, copulate' (4.67) and hence cognate with Skt. *rāgha-* 'anger, rage', *ṛghāyāte* 'rage, be impetuous', etc. (P 147-48).

lelaniya- 'become furious, become enraged' (CHD 3.58-59) is unexplained.

16.44 — ENVY, JEALOUSY — The etymon of Skt. *īrṣyā-*, Av. *ərəši-*, *araska-* is found in H. *arsaniya-* 'envy, begrudge; be angry at', *arsanant-* 'angry, envious', IE **E₁(e)rE₁-s-*; also cognate are OE *eorsian* 'wish ill', *yrre* 'angry', Hom *ἄρειή* 'threats' (= Skt. *irasyā* 'ill will'), Arm. *her* 'anger, envy', Toch. A *rse*, B *rser* 'hatred' (Benveniste, *BSL* 33 [1932]: 139; cf. P 172-73; T 67-68).

With Goth. *aljan* 'ζῆλος' Puhvel compares *halwammar* 'zeal' (P s.v.). Cf. Eichner, *Die Sprache* 24 (1978): 69.

16.45 — SHAME — *tepnumar*, vbl. noun < *tepnu-* 'humiliate, make small', from *tepu-* 'small' (12.56).

kusduwai- 'disdain, scorn; slander' is compared with Avest. *gaoš-* 'hear' and derived from an IE **ghéws-tu-* by Eichner

(*Hethitisch und Indogermanisch* 55, n. 42), dubiously positing a meaning roughly '(bad) reputation'; besides the semantic difficulty, Tischler (T 675) notes the problematically unusual *-tu-* suffix.

The basic meaning of Gk. αἰσχύνη is 'ugliness', αἰσχύνω 'make ugly', cf. 15.88.

16.46 — HONOR — Terms for 'to honor' in Hitt. are from verbs meaning 'know', in the sense 'recognize (the authority of)', *sak-* and *kane-* (17.17). A common locution, e.g. in treaties, is (*assuli*) *pahs-* 'protect (in friendship)', applying reciprocally to lords and vasals, as well as to oaths.

16.48 — PROUD — *sallakartant-*, part. of denom. *sallakartai-* to *sallakarta-* 'arrogance, pride' in a negative and harmful sense, from *salli-* 'big' (12.55) + *kard* 'heart' (4.44) (details of formation unclear), like e.g. Goth. *haúhhairts*, OE *hēahheort* 'pride', with negative connotations as in Goth. *mikilþūhts* ὑπερήφανος', OE *ofer-mōdig*, NHG *hochmütig*. Cf. Güterbock, *Corolla Linguistica* 65-68; Gusmani, *Studi ... V. Pisani* 514.

16.51 — DARE — The source of *handalliya-* is most probably *hant-* 'front, fore' (cf. *hantezzi[ya]-* 'first', 13.34), via an adj. **handalli-* 'foremost' and meaning 'go first, be foremost' (T 154-55); cf. ON *frami* 'boldness, courage' < *fram* 'forward' < **pro-mo-*.

maz(z)- 'tolerate, endure, suffer', etc. (16.31) develops an offshoot in this direction, via 'withstand' (CHD 3.214); cf. Gk. *τολμάω* 'bear' beside *τλῆναι* 'bear, suffer, undergo' : Lat. *tollō*, Goth. *þulan*.

16.52 — BRAVE — *tarhuili-* 'strong, mighty, brave, masculine', etc.; 4.81.

An adjectival sense 'strong, sturdy, brave' underlies *hastali*- 'hero', fr. *hastai*- 'bone'; cf. 4.81 and 4.16.

16.53 — FEAR, FRIGHT — With a meaning distinction perhaps resembling that of Gk. δειμα 'fear, terror' vs. φόβος 'fright', Hitt. has the pair *nahsarat*- and *weritema*- (cf. AI 379-82). For the former, a vbl. noun *nahsar*- produced the further nominal deriv. *nahsarat*- along with *nahsariya*- 'to fear', and arose in turn from *nahh*- 'be afraid, be timid', with both root **neA₁*- and suffix *-sr*- comparable with Mlr. *nár* 'modest' (**neA₁-sr-o-*), *náire* 'shame, modesty' (Pedersen, *Hitt.* 187; Oettinger, *Stammb.* 411-12).

weritema- 'fright', from *weritē*- 'be frightened', probably formed of elements corresponding to Lat. *vereor* 'watch fearfully', OE *warian* 'beware', Gk. οὔροϛ 'watcher, lookout', etc. (widely attested IE **wer-*, IEW 1164; Benveniste, *BSL* 33 [1932]: 138) plus IE **dheE₁*- 'put, set, place' (12.12; see Eichner, *Flexion und Wortbildung* 88).

Luwoid *kuwayati*-, vbl. noun from *kuwaya*- 'be afraid', has been linked with IE **dwey-* (Gk. δειδω, δειμα 'fear', Avest. *dvaēθā* 'threat', IEW 227), via a "Lycianism" **dwey-* (or **dwoy-*; cf. δειδω < **δέ-δφοι-α*) > **kwai*⁻¹ (Laroche, *DLL* 78-79, *BSL* 62 [1967]: 50); T 685-86.

hatugatar 'terror' is from *hatuk*- 'be terrible'; cf. *hatuka*- 'terrible, fearsome', *hatukes*- 'become terrible', *hatuganu*- 'terrify'. The verb matches Hom. ὀδύσσασθαι 'be wroth' and Crim. Goth. *atochta* 'malum', and is analyzed by Puhvel (*Bi. Or.* 37 [1980]: 203) as IE **A^w₂ed-* (Lat. *odium*, *ōdī*, Arm. *ateam* 'hate', OE *atol* 'fierce, terrible', etc.; IEW 773) + **Aug-* 'grow' (**Aéw-g-*; Lat. *augeō*, Goth. *aukan*, NE *eke*, Lith. *áugu*, Gk. αὔξω, etc.; IEW 84), thus 'grow in terror'; cf.

1. A parallel to this sound-shift is NHG *Quark* < MHG *twarc*, *zwarc* (Russ. *tvorog*); NHG *quer* < MHG *twër* (Swed. *tvär*).

Götze - Pedersen, MS 50-51; Tischler, KZ 92 (1978): 108-11, T 227-29.

16.54 — DANGER — *harga-*, primarily 'ruin, destruction', 4.75.

16.61 — WILL, WISH — *wek-* 'wish, ask for, desire' is cognate with Skt. *vaś-* and Gk. *έκών* 'willing' (Sturtevant, *Comp. Gr.*¹ 89), providing an Indo-Greco-Anatolian isogloss. Intensive reduplication yields *wewakk-* 'demand; long for' (HWb. 254).

16.62 — DESIRE — An early connection of *ilaliya-* with Gk. *λιλαίομαι* (Juret, *Vocabulaire* 22) is phonetically insupportable (cf. T 354); some native expressive origin must be assumed — P 356-57 points out Gk. *έλελίζω*, *άλαλάζω*, *όλολύζω*. It appears commonly in personal names; cf. *Ilalia-*, *Ilaliashu-*, divine names ^D*Ilaliyandus*, Pal. ^D*Ilaliyantikes*, perhaps Lyc. *Eliyāna*, and possibly as Hier. *alana-* 'covet' (F. Steinherr, MSS 32 [1974]: 108).

wewakk-, 16.61.

16.65 — FAITHFUL — Perhaps the nearest equivalent of Engl. 'faithful' is *handant-* 'ordered, true, straight, upright', etc. (16.73); cf. the vbl. abstract *handat-* 'fidelity, loyalty' (T 154).

alsant- 'allied, loyal', part. of *als-* 'owe fealty, give allegiance', derived from **A₂él-s-* or **H₂ól-s-* and compared with Ved. *rāśnā* 'girdle' (cf. H. *ishanittarātar* '[marriage] alliance' < *ishai-* 'bind', 2.81, 9.16) in Puhvel, JAOS 97 (1977): 599 and P 41.

A meaning 'be loyal' is suggested for *anda aus-*, lit. 'look inward', vs. *damedani aus-* 'look towards another, be disloyal' by Hoffner (EHGl. 56, n. 101), noting Akk. *pānī dagālu* 'be obedient, respectful'. A similar notion resides in *sakuwassara-* (*sakuwa-* 'eye', 4.21) 'full, complete, right, righteous, legal, loyal', *sakuwassarit* ZI-it 'in loyaler Gesinnung' (HWb. 178).

16.66 — TRUE — *asanza-*, part. of *es-* ‘be’, lit. ‘existing, real’, equivalent to Skt. *satyá-*, Goth. *sunjis*, ON *sannr*, OE *sōð*, ME (*for*)*sooth*, Gk. *ἐτεός* ‘true’ (DSS 1169, P 289).

karsi- ‘honest, frank, uninhibited’, possibly from *kars-* ‘cut’, 9.22 (Sturtevant, Lg. 10 [1934]: 267; Laroche, RHA 28 [1970]: 54).

handant-, cf. 16.73.

16.67 — LIE (sb.) — *marsatar* ‘fraud, treachery, deception, deceit, dishonesty’ (CHD 3.199) is from *marsa(nt)-* ‘unholy; false, treacherous, dangerous’ or the like (cf. Laroche, RHA 10 [1949-50]: 23-25; Goetze, JCS 13 [1959]: 68); cf. also verbal *marsahh-* ‘make false’, *marses-* ‘become false’, *marsai-* ‘be false’. The adj. can be compared with Skt. adv. *mṛṣā-* ‘falsely’, as in T. Burrow, *Archivum Linguisticum* 16 (1964): 76 (Watkins [TPS 1971: 74, n. 25] also connected *mṛṣyate* ‘forget’, explicitly kept apart by Burrow, thus tying in Goth. *marzjan* ‘anger’, OE *mierran* ‘disturb’, Lith. *maršas* ‘forgetting’, Arm. *mořanem*, Toch. *mārs-* ‘forget’).

16.68 — DECEIT — *marsatar*, 16.67.

astayarat(t)ar is interpreted ‘deceit, guile, trickery, fraudulence’ in P 219, linking it with *marsastarri-* ‘religious fraud’ and supporting Neumann’s comparison (in T 86) with Lat. *astus* ‘craftiness, cunning, guile’, *astūtus* ‘crafty, tricky’.

Luw. *kukupalatar* is most probably an abstract formed on an agent noun **kukupalla-* (Čop, *Die Sprache* 3 [1957]: 147-48; Oettinger, *Stammb.* 204; T 618). For the basic verb (here reduplicated) *kup-* ‘plan, plot’ three etymologies have been proposed, all formally plausible but none semantically compelling. Best may be an IE **kewb-*, **kub-* seen in Germanic, e.g. OE *hopa* ‘hope’, *hopian* ‘hope, expect, trust’ (Čop, *Die Sprache* 3 [1956]: 146-47); also of interest are IE **kw-ep-*, **ku-p-* in Lat. *cupiō* ‘desire’, OIr.

ad-cobra ‘wish’, *milchobor* ‘bear’, Skt. *kupyati* ‘be agitated’ (e.g. Pedersen, AO 9 [1937]: 205) and IE **ghewb(h)-*, **ghub(h)-*, cf. Lith. *gaubiù* ‘cover up’, OCS *gunoti* ‘fold’ (Trautmann, *Baltisch-Slavisches Wb.* 100-1). T 638-40.

appali dai- and denom. *appalai-* ‘set a trap, ensnare’ (*appala-* ‘trap’ 3.79), also ‘trick, mislead, deceive’ (P 95).

16.69 — FORGIVE — *haratar lā-* ‘release, let go an offense’ (*haratar* ‘fault, offense; guilt’, 16.76; *lā-* ‘release’, 11.34), semantically like terms for ‘forgive’ in other languages; cf. Lith. *atlėisti* < *lėisti* ‘let go’, Goth. *af-lētan*, Lat. *dī-*, *re-mittere*, Gk. ἀφίημι. *parkunu-*, 21.34.

16.71 — GOOD — Friedrich’s connection of *assu-* with Skt. *su-*, Av. *hu-*, OCS *sŭ-*, OIr. *so-*, Gk. εὖ < IE **(e)sú-* (IF 41 [1923]: 370-72; cited in DSS 1176) should now be retired. The consistent -ss- and base-meaning of the primary verb *ass-*, *assiya-* ‘be favored, be dear’ (parts. *assuwant-*, *assiyant-*) support instead a derivation from IE **ans-*, *ŋs-* (cf. *dassu-* < **dŋsu-* [4.81]) and comparison with Goth. *ansts* ‘grace, favor’, ON *ást* ‘love, affection’, *unna*, OE, OHG *unnan* ‘grant, bestow, be ungrudging’ (IEW 47; cf. G. Jucquois, RHA 22 [1964]: 89-91; Puhvel, KZ 94 [1980]: 65-70; P 189-206). *assu-*, *assuwant-*, *assiyant-* is centrally ‘favored, dear; agreeable; good’ (like Lat. *bonus* < **duenos* vs. *beātus* < **dweyā-*, Ved. *dúvas-* ‘favor’) (SIG₅), vs. ‘inherently good, sound’ (DÜG.GA) in the obscure *lazz(a)i-*, denom. *lazziya-* ‘set straight; be good; recover’, etc. (CHD 3.50-53).

Skt. *vásu-*, Av. *vanhu-*, *vohu-*, Gmc. *Wisi-* [Gothae], Gaul. [Bello-, Sigo]-*vesus* ‘good’, OIr. **feb* ‘excellence’ (dat. sg. *feib* < **weswāi*), W. *gwych* ‘fine, splendid’, etc., on the other hand, are cognate with Pal. *wasu-* ‘well’, Luw. *wasu-*, Hier. *wasu* ‘well-being’, similar in meaning to Hitt. *assu-* but etymologically separate. Cf. Puhvel’s

refinement of this etymology (KZ 94 [1980]: 69-70), comparing Ved. *vas-* 'shine', Lith. *aũšta* 'it dawns', OCS *veselŭ* 'joyous' fr. an IE **Aw-és-*, **Aéw-s-* 'shine, be radiant' (cf. KEWA 3.173-74; Kammenhuber, KZ 77 [1961]: 169-70, n. 3).

16.72 — BAD — *idalu-* (HUL) (Luw. *adduwali-*) forms numerous derivatives, e.g. nouns *idalawant-*, Luw. *adduwal-*, abstr. Hitt. *idalawatar*, Luw. *adduwalahit*, Hier. *atuwati-*, *aduvari-*, inch. *idalawes-*, fact. *idalawahh-*. The basic Hitt. and Luw. forms provide for a reconstruction (Laroche, RHA 23 [1965]: 41-42) from PAnat. **edwal* (with *-d-* < **-dw-* as in *ta-* 'two' < **dwo-*), IE heteroclitic **edwl* vs. **edwŋ-*, **edun-* in Gk. *ὀδύναι* 'pain, distress', Arm. *erkn*, OIr. *idain* '(birth) pangs', and further analysis **ed-wl* 'eating, gnawing (pain, trouble)' < **ed-* 'eat' (P 493).

huwappa- 'bad', cf. *huwap(p)-*, *hup(p)-* 'treat badly', 11.28.

marsa- 'false, treacherous', etc., 16.67.

hahharsanant-, possibly 'contemptuous' or the like, fr. *hahhars-* 'laugh (derisively?)', 16.25.

kallar(a)- 'inauspicious, monstrous', 'bad' in the sense of 'nefarious' (NU.SIG₅), cf. *kallaratar* 'unfavorable oracle', may be related to OIr. *galair* 'disease' (Pedersen, Hitt. 29, 46), with ON *galli* 'defect, flaw', Lith. *žalà* 'damage, destruction', etc. (IEW 411; cf. T 464 and refs.). Other suggestions have been Gk. *κηλέω* 'charm, bewitch', Lat. *calvor* 'scheme, deceive', Goth. *hōlōn* 'defame, slander' (Goetze, Lg. 30 [1954]: 403) and Lat. *clādēs* 'destruction' (Bernabé P., *Revista española de lingüística* 3 [1973]: 436). A later survival is Lesb. Γέλλω, a female evil spirit; cf. Hitt. *kallar uttar* 'evil spirit' and the cognate NHG *bösewicht*.

16.73 — RIGHT — The negative *ŪL āra* (*natta āra*) 'not right, impermissible, socially unacceptable' contains *ara-*, *āra-* 'proper, acceptable, correct', seen also in nominal *ara-* 'comrade, peer,

friend' and *aral(l)ai-* 'join, associate', with further *arawa-* 'free' (Lyc. *arawā*), *arawes-* 'become free', *arawahh-* 'make free', etc. It belongs with Ved. *ṛtá-* 'right, suitable', *ṛtám* '(social) order' (Av. *arəta-*), *arí-, aryá-* 'righteous, loyal', *ārya-*, Av. *airyō* 'belonging to the community, Aryan', etc.; cf. Puhvel, *Études mithriaques* (Leiden, 1978), p. 336-41 = AI 323-289, comparing OIr. *aire* 'noble, free', *Eremon*, Gaul. *Ariomanus*, with further discussion. The root is thus IE **ar-* 'fit, arrange' (Gk. ἀραρίσκω; Ved. *áram*, Av. *arəm* 'fittingly', etc.; IEW 55-61), with very wide morphological and semantic ramifications. Cf. Laroche, *Hommages à Georges Dumézil* 124-28; Benveniste, *HIE* 108-10; Gusmani, *Lessico* 51-52; P 116-21.

The sense of moral rectitude is included among the connotations of *handant-* 'right, upright, just, true, straight', etc., probably part. of *handai-* 'set in order arrange', ultimately f. *hant-* 'front' (cf. *hant-* 'forehead', 4.205) via adverbial and postpos. (orig. directional dat.) 'in front, opposite; correspondingly, in order' (T 149-53). Cf. also *menahhanda* 'opposite', 4.204.

16.74 — WRONG — *ŪL āra* 'not right, antisocial', etc., with *āra* (16.73), is similar in meaning to cognate Skt. *ánārya-* 'indecent, vulgar, vile, base, not respectable, un- or non-Aryan'.

16.75 — SIN — The primary meaning of *wasta(i)-* 'sin', with substantive *wastul*, *wasdumar*, is 'fail, fall short, miss the mark' (like Gk. ἀμαρτάνω), cf. *sallis wastais* 'great vacancy' or 'desolation' = 'death of the king'. Hence the comparison is with Lat. *vāstus*, OIr. *fáss*, OHG *wuosti*, OE *wēste*, NE *waste* 'empty, desolate' (Laroche, *RA* 67.2 [1973]: 119-21). A 'capital offense' is SAG.DU-*as wastul*, with SAG.DU 'head' (4.20).

hurkel 'crime, serious offense', 21.41.

haratar 'fault, guilt', 16.76.

16.76 — FAULT, GUILT — Hitt. and Luw. *haratar*, *harātar* appears mostly in the phrase *ŪL haratar* ‘(there is) no offense’, and means basically ‘offense’ or ‘outrage’ with emphasis on culpability. It has the appearance of an abstract noun from *harr-* ‘crush, ruin, destroy’ (5.56), although the (possibly Luwian) nonassimilation in obl. *haratn-* and *haratnant-* ‘scandal’ plus the somewhat unclear semantic development leave room for doubt (as in *EHS* 296); T 172, P s.v.

16.77 — MISTAKE, ERROR — *wastul*, 16.75.

16.78 — BLAME — Luw. *hanhaniya-*, possibly ‘to blame’, has been compared with isolated Gk. ὀνομαί ‘blame, find fault with, reject’ (Van Brock, *RHA* 22 [1964]: 139-41) or less probably (α)αῖνομαι ‘refuse, deny’ (Čop, *KZ* 85 [1971]: 26-30); the probable reduplication makes likely a relation to *hanna-* ‘decide, judge’ (21.162); T 148-49.

16.79 — PRAISE — *sarlatt-* ‘praise, exaltation (ceremony)’, from *sarlai-* (Hier. *sasarla-*) ‘praise, honor’ (lit. ‘elevate, exalt’, as in parts. *sarlant-*, Luw. *sarlaim(m)i-* ‘exalted’), denom. from *sarli-* ‘higher, upper’ < *ser*, *sarā* ‘up, above, on top of’ (Laroche, *Festschrift J. Friedrich* 291-95; cf. Oettinger, *Stammb.* 379-80), perhaps related to Gk. ῥίον ‘peak, promontory’ (**sr-o-* vs. **sr-iyō-*?; A. Heubeck, *Orbis* 13 [1964]: 264-66; Gusmani, *Lessico* 86).

walliyatar, fr. *walliya-* (Luw. *walli*), *walla-* (also *wallu-* [< **wal-nu-*?]) ‘to praise’, possibly related to (*walli*)*walli(ya)-* ‘strong’, cf. lat. *valeō* ‘be strong’, Osc. *valaimo-* ‘best’, Goth. *waldan* ‘rule’, OIr. *flaith* ‘dominion’, Toch. B *walo* ‘king’, etc., *IEW* 1111-12 (*Stammb.* 490-91).

16.81 — BEAUTIFUL — Perhaps *misriwant-* (15.56), *EHGL*. 21.

16.82 — UGLY — Gk. αἰσχρός is cognate with H. *iskunahh-*
'stain'; cf. 15.88.

MIND, THOUGHT

17.11 — MIND — *istanza(n)-* (ZI), 16.11; cognate with NHG *sinn*.

17.12 — INTELLIGENCE, REASON — *hattatar*, vbl. abstract of *hatta-* ‘think, understand’ (17.13).

hazzizzi- ‘understanding’, also ‘ear’, borrowed from and congruent in meaning with Akk. *hasīsu* (T 233-34).

17.13 — THINK (REFLECT) — A **hatta-* ‘think, understand’ is inferred from *hattatar* ‘wisdom, intelligence’, part. *hattant-* ‘wise’, fact. *hattahh-* ‘make wise’. Conceivably identical to *hattai-* ‘cut, chop’, etc. (9.22); cf. NE *discern* < OFr. < Lat. *dis-cernere* ‘sift apart’, also NE “be incisive,” “be sharp,” etc.; T 214-15.

kappuwai- ‘think about, take into account’, 11.66.

17.15 — BELIEVE — *hai-* was linked to Lat. *ōmen* (**A^we-mn̥*) by Benveniste (HIE 10-11, reading *hā-*), stressing the necessity of belief in such signs for their efficacy (*ōmen accipere*); cf. also Oettinger, *Stammb.* 361 and n. 212 (**A₁eA^{w-}*). Reconstructing **hay-āye-* < IE **A^w₂ey-*, Puhvel (P s.v.) compares rather Goth. *áiþs*, OIr. *óeth* ‘oath’, with original sense ‘trust, have faith in’.

17.16 — UNDERSTAND — *hatta(i)-* ‘think, understand’, 17.13.

17.17 — KNOW — The root of *kānes-* (/gnes-/) ‘know, recognize, discover’ is evidently IE **gn(e)H-*, **genH-*, attested in nearly all branches (IEW 376-78, DSS 1209-10). The origin of the unique Hitt. -s- is disputed, but it is most generally thought to be an original aorist marker (e.g. Laroche, *RHA* 19 [1961]: 27-29; further refs. T 478-80).

sak(k)-, *sek(k)-* ‘know, recognize; learn’, with *sagai-* ‘sign, omen’, *sakiya-* ‘presage’, *sakiyahh-* ‘pronounce an oracle’, is related to Lat. *sāgiō* ‘have knowledge’, Dor. ἄγέομαι ‘lead’, Goth. *sōkja*, OIr. *saigim* ‘I seek’. IE **s(e)A₂g-* thus had connotations of preternatural wisdom, foreknowledge, second sight, etc. (cf. Lat. *sāga* ‘prophetess, fortune teller’); Benveniste, *BSL* 33 (1932): 140-41.

17.21 — WISE — *hattant-* ‘understanding, insightful’ or the like, part. of *hatta-* ‘think’, 17.13. Verbal abstract *hattatar* ‘knowledge, wisdom’.

For Gk. σοφός see *sakui-* ‘eye’, 4.21.

17.22 — FOOLISH, STUPID — *marlessant-* ‘foolish, idiotic, demented’ is a likely part. of inch. **marles-* from a **marla-* of the same meaning (Sommer, *AU* 184): cf. *marlant-* (^lULIL) ‘fool, idiot’, *marlatar* ‘foolishness, stupidity’, possible *marlahh-* ‘make foolish’, and *marl(a)iski-* ‘become crazed, go mad’ (CHD 3.191-92). Origin unknown.

17.23 — INSANE, MAD, CRAZY — *marl(a)iski-*, lit. ‘keep acting like an idiot’, fr. **marla-* ‘foolish’, 17.22.

17.24 — LEARN — *sak(k)-*, 17.17.

17.25 — TEACH — *annanu-* ‘train, educate’, caus. to *an(n)iya-* ‘work’, 9.11 (Pedersen, *Hitt.* 145; P 59-62), cf. *annanuhha-* ‘trained’.

walkissarahh- 'make expert', fact. fr. *walkissara-* 'skilled, expert' (HWb. 243), obscure.

17.28 — SCHOOL — É.DUB.BA.A 'tablet-house' (HWb. 270); cf. DUB = *tuppi-* 'tablet', 18.55.

17.31 — REMEMBER — *kappuwai-* 'think about, take note of', etc., 11.66.

17.32 — FORGET — Possibly (*arha*) *paskuwai-* (Götze - Pedersen, MS 20; HWb. 165).

17.34 — CLEAR, PLAIN — Lith. *aiškus*, OLith. *iškùs* may be cognate with H. *iskunahh-* 'proclaim' (like Lat. *dē-clārō*), if the latter is not to be translated rather 'demote, rusticate' (in which case cf. 15.88); see Puhvel, *Bi. Or.* 38 (1981): 351-52, *Gedenkschrift Kronasser* 182 and n. 7, P 426-28. IE **ays(k)no-* 'clear, bright' also yields OCS *jasnŭ* 'clear', *iskra* 'spark', and parallel **ays(k)ro-* gives H. *asara-*, *esara-* 'white, bright'; cf. 15.64.

On Gk. σαφής 'clear', Hom. σάφα 'clearly', cf. H. *sakui-* 'eye' (4.21) and AI 265-66, 313-21.

17.36 — SECRET — Several attempts at an etymology for adj. *harwasi-* are recorded in T 190; the least objectionable relates it to Egypt. *ha-ra-si-š(i)* 'secret' (W. Helck, *Die Beziehungen Ägyptens zu Vorderasien im 3. und 2. Jahrtausend v. Chr.* [Wiesbaden, 1952], p. 565.

Adv. *munnanda* is from *munnai-* 'hide, conceal', 12.27.

Luw. *kugurniya-* 'secret'? (DLL 56, vs. T 618 'verleumden'), vbl. noun *kugurniyaman*, Hitt. *kuggurniyauwar*; obscure.

17.38 — EXPLAIN — *arkuwai-* 'plead, argue, explain oneself, make excuses', etc., is to be compared with Lat. *arguō* 'assert, accuse, prove' (cf. Laroche, *École Pratique des Hautes Études, Sciences religieuses, Annuaire* 72 [1964-65]: 13-20; *RPh.* 42 [1968]: 242-43; von Schuler, *JCS* 22 [1968]: 4-5; Puhvel, *AI* 264, P 148-51).

17.42 — CAUSE — *uttar* (INIM) 'affair, matter, thing', etc., 9.90.
memiya(n)- 'speech, word, thing, matter', fr. *memai-* 'speak', 18.21.

VOCAL UTTERANCE, SPEECH; READING AND WRITING

18.12 — SING — *ishamiya-*, *ishamai-* ‘sing’ (SÌR-RU, ZAMĀRU), *ishamai-* ‘song’ (SÌR), *ishamatalla-* ‘singer’ (LÚSÌR, Akk. *zammāru*), all from an **ishama-*, from the same root as in *ishiya-* ‘tie, bind’ (9.16) and *ishiman(a)-*, *ishamin(a)-* ‘cord, line, rope’ (9.19). The semantic key to the connection lies in the sense of Gk. ῥαψῳδός ‘weaver of songs’ (ῥάπτω ‘stitch together’) and Skt. *sūtra-* ‘thread; aphorism, rule, canon’, Gk. ῥυμός. Thus while **sE₂-(o)m-* > Hitt. *ishama-*, Ved. *sāman-* ‘song’, **sE₂-oy-mo-* > Gk. (psilotic) οἶμος, οἶμη ‘song’, **sE₂-oy-tos* > ON *seiðr* ‘line, rope; magic (spell)’ (EHS 178, T 378-80, P 394-95).

The reduplicated *galgalinai-* is undoubtedly related to *galgalturi-* ‘cymbal, tambourine’ or other metallic musical instrument. Imitative origin seems likely (EHS 481); cf. Arm. *geḷ-geḷ-el* ‘trill, warble’ (N. Mkrtč‘jan, *Acta Antiqua* 22 [1974]: 318, comparing also Hebr. *kilkel*, Arab. *qalqal/ḡalḡal*; T 467). Possibly of similar ultimate origin Lith. *gaĩsas* ‘echo’, OCS *glagolŭ* ‘word’, *glagolati* ‘speak’.

LÚGALA ‘singer’ covers LÚhalli(ya)ri- and LÚsahtarili-, both of Hattic origin (P s.v.).

18.13 — SHOUT, CRY OUT — *halzai-*, *halziya-* is ‘call out, shout, exclaim’, and secondarily ‘proclaim, call on, summon, invoke; invite’, etc., as in Lat. *clāmō*, *calō* (: H. *kalles-*, 18.41); OIr. *gairm*, *gáir*

'a cry', *gairim* 'I summon, name'. Reflecting **A₁lt-yó-* fr. **A₁élt-*, **A₁lét-*, it is cognate with Goth. *laþōn*, OE *laðian* 'summon, invite', with the original sense perhaps maintained in OLat. *lessus* 'wailing, lamentation' (cf. Juret, *Vocabulaire* 20; Puhvel, *Evidence* 88 = *AI* 134; P s.v.; Čop, *Ling.* 10 [1970]: 96-97).

alalamniya-, whether derived from *alalam(ma)a-* 'rushing of water' (*EHS* 559, 571; doubtful, as *alalamma-* is probably 'ditch'; Puhvel, *JAOS* 97 [1977]: 598; P 28) or haploglogically with *lamniya-* 'call, name' (18.42; P 27), attests the expressive vocable found in Gk. ἀλαλαί, ἐλελεῦ 'alas', ἀλαλάζω, ὀλολύζω 'cry out', Arm. *ałatak* 'cry, scream', RV *alalābhāvantīr* 'loud-sounding (waters)'. Attestation may not be restricted to Eastern regions; cf. OE *walawa* (< *wā lā wā* 'woe!'), arch. NE *wellaway*.

wāi-, *wiyai-*, *wiwiya-*, *wiwiski-* are various verbalizations of the interjection **wai-* 'woe!' (*IEW* 1110).

taskupai- is obscure.

18.14 — VARIOUS CRIES — The only animal noise suggested in the texts is *huntarnu-* 'grunt'; cf. *huntari-* 'swine' (3.31) and *huntariya-* 'fart' (4.64).

18.21 — SPEAK, TALK — *memai-* 'speak' (Luw. *mam[m]an[n]a-*), with *memiya(n)-* 'speech, word, matter, thing', etc. and denom. *memanu-*, *memiyanu-* 'cause to speak'. Compared with Ved. *mīmāti* 'bellow', OCS *mĭmati* 'stammer, mumble', with original imitative origin (Benveniste, *BSL* 33 [1932]: 140), and with ON *mál* 'speech' < **ma-tlom* (Götze - Pedersen, *MS* 59).

A verb *lala(i)-* 'speak (clearly)', denom. from *lala-* 'tongue; speech' (4.26) is questionable; cf. *CHD* 3.25-26 and refs.

te-/tar- 'say, speak', 18.22.

18.22 — SAY — The suppletive Hitt. verb *te-/tar-* 'say' preserves two ancient and sparsely attested usages within Indo-European. The stem *te-*, whose etymon IE **dheE₁-* is practically ubiquitous in the meaning 'put; do' (including Hitt. *dai-*), mirrors the semantic shift seen otherwise only in Slavic: OCS *děti* 'put, say', Slovene *dem* 'I say' (= Hitt. *temi*), ORuss. *dě* 'he said' (H. *tet*). *tar-*, on the other hand (1 pl. pres. *tarveni*, 3 pl. *taranzi*, part. *tarant-*, iter. *taraski-*, *tarsik[k]i-*), attests a basic verb 'speak', as shown by Lith. *tariù*, *tarti* 'say', *tarmẽ* 'utterance', thus indicating an important Baltic-Anatolian isogloss. Cf. Puhvel, *Gedenkschrift Kronasser* 183-84).

18.23 — BE SILENT — *karussiya-* 'be silent, be indifferent', caus. *karussiyanu-* 'silence', as well as *kariya-* 'stop, pause, rest', caus. *kariyanu-*, reflect **g^wr(-ew-s)-y-* or similar, from an IE **g^wer-*. Cognates include Arm. (aor.) *koreay* 'die out', Toch. A *kur-*, B *kwār-* 'age, become enfeebled', Lith. *gūrstu* 'die down, subside', Goth. *qairrus* 'gentle, meek', ON *kvirr* 'quiet, peaceful' (Čop, *Univerza v Ljubljani. Zbornik Filozofske Fakultete* 2 [1955]: 393-97; T 529-30; AI 263).

18.24 — LANGUAGE — Directions for an official or celebrant to speak in a particular language are given using the adj. suffix *-ili*, thus *luwili* 'in Luwian', *nesili*, *nāsili* 'in Hittite', etc.

18.26 — WORD — Whereas a meaning 'thing, matter', etc. developed secondarily from *memiya(n)-* 'word' (fr. *memai-* 'speak', 18.21), conversely *uttar* 'thing' came to mean also 'word'; see 9.90.

18.28 — NAME — *laman-* (MU, ŠUNU) reflects IE **nōm_h2-* (cf. Lat. *nōmen*; DSS 1264, IEW 321), with dissimilation as in *lammar* 'hour'.

18.31 — ASK (QUESTION, INQUIRE) — *punus-* ‘ask, inquire; investigate’, iter. *punuski-* (LI.TAR, Akk. *ša’ālu*). Connection is generally assumed (e.g. IEW 839, GEW 509, 566) with Gk. *πέπνυμαι* ‘be wise, prudent’, *πνέω* ‘breathe’, OE *fnēosan* ‘sneeze’, etc. (unnecessarily split into two separate roots in *Stammb.* 214-15), IE **pnew-* ‘pant, gasp, breathe; be conscious’; the sense of the Hitt. verb might be from something like ‘come to, regain consciousness’.

18.32 — ANSWER (vb.) — *appa mema-* ‘speak back’ (cf. 18.21), like OIr. *fris-gair*, Lith. *atsakýti*, OCS *otŭ-věštati*, SCr. *ot-govoriti*, Skt. *prati-vac-*, *prati-bhāṣ-*, etc. (DSS 1266-67).

18.33 — ADMIT, CONFESS — Possibly *arkuwar iya-*, lit. ‘make a plea’, from *arkuwai-* ‘plead, argue, explain oneself’, 17.38 (P 149).

18.35 — ASK, REQUEST — *wek-*, 16.61.

18.36 — PROMISE — *mald-*, 22.17.

18.37 — REFUSE — *memma-*, *mimma-* is analyzable as a stative pf. **me-moE₁-* of a verb **meE₁-* ‘hold back’ or the like, the (suffixless) imperative of which gave prohibitive **mē* as in Gk. *μή*, Ved. *mā* (cf. *Stammb.* 497).

natta memai- ‘say no’, with *memai-* ‘speak’, 18.21.

markiya- ‘disapprove, reject, refuse, find fault’, etc., also ‘forbid’ (CHD 3.189-90), probably belongs with Corn. *moreth* ‘anger’, Bret. *morc’et* ‘souci, malheur’, IE **merk-* (IEW 740; Knobloch, *Kratylos* 4 [1959]: 39).

18.38 — FORBID — *markiya-*, 18.37.

18.41 — CALL (SUMMON) — *weriya-* ‘call, summon’ matches Gk. εἶπω ‘speak, tell’ < IE **Hwer-yo-*, from a variably suffixed root seen e.g. in Goth. *waúrd*, OE *word*, Lat. *verbum*, Lith. *vaĩdas* ‘name’; Avest. *urvāta-* ‘prayer’; Gk. ῥῆμα ‘word, phrase, speech’ (Sturtevant, *JAOS* 50 [1930]: 128; T 308-12 and refs.). Cf. *hurt-* ‘curse’, 22.24.

halzai-, *halziya-*, see 18.13.

kalles- ‘summon, invite’ is comparable with Gk. καλέω, Lat. *clāmō* ‘call’, OE *hlōwan* ‘roar, low’ (*IEW* 548), with stem-final -s perhaps an extension parallel to OPruss. *kelsāi-* ‘read, sound out’ (Neu, *Anitta-Text* 88). Cf. T 465-66 and refs., *Stamm* 197.

18.42 — CALL (NAME) — *lamniya-*, *lammaniya-* ‘name, call by name; appoint, assign’ (*CHD* 3.37-39), denom. fr. *laman* ‘name’ (18.28) and hence analogous to Goth. *namnjan*, OE *nemnan*, NE *name*, Gk. ὀνομάζω.

18.43 — ANNOUNCE — *tarkummai-*, Luw. *tarkummiya-*, evidently a loanword; cf. Akk. *targumānu* ‘interpreter’ (*HWb.* 214).

isiya(hh)- ‘announce, betoken, reveal’; cf. 22.47 and P 409-13.

18.45 — BOAST — *-za walla-*, with refl. *-za*; see *walla-* ‘praise’, 16.79.

18.51 — WRITE — The physical act of writing is expressed as (*tuppi*) *anniya-* ‘inscribe, make (a tablet)’, 9.11; cf. abl. *tuppiyaz anniya-/hatrai-* ‘record by means of a tablet, put in writing’.

hatrai- ‘write, communicate, decree’ (*ŠAPĀRU*), iter. *hatreski-*, vbl. noun *hatressar* ‘message, written order’. Seemingly denom. from an instrument-noun **hattra-* < **hat-tro-*, derived from *hattai-* ‘chop, cut’ (9.22); cf. *tuppi hazziyan harzi* ‘he has written (lit. “cut”) a

tablet' (Čop, *Slav. Rev.* 11 [1958]: 52-54; Oettinger, *MSS* 34 [1976]: 126; T 226-27).

guls- 'paint, draw, inscribe', *gulzi-* 'drawing' (GIŠ.HUR), 9.85-9.86.

18.52 — HEAD — Simply *tuppi aus-* 'look at a tablet' (15.51), or (*tuppi*) *halzai-* (iter. *halzeski-*, durative *halzessa*) 'call out, read aloud' (18.13), analogous to Goth. (*us*)*siggwan* 'ἀναγινώσκω'.

18.54 — LETTER (EPISTLE) — Verbal nouns *hatressar* or *gulzatar* 'writing'; cf. 18.51.

18.55 — TABLET — *tuppi-* 'clay tablet' (DUB), Akk. *tuppu*.

A wooden tablet may be referred to by ^{GIŠ/GIŠ.HUR}*gurta-*, Akk. ^{GIŠ}*LE-U* (T 661), though the etymology is obscure (cf. T 663 s.v. ^{GIŠ/GI}*kurtal[li]-*).

IM.GÍD(.DA) 'long tablet' (*HWb.* 277-78); GIŠ.HUR 'picture'; cf. 9.87 and *EHGl.* 51, n. 85.

18.57 — PEN — 'Stylus' is ^{URUDU}*sepikkusta-* 'pin' (6.63) or GI É.DUB.BI (GI 'reed', cf. Gk. κάλαμος), according to *EHGl.* 85.

18.64 — PRINT — Vbl. noun *siyattal-* 'seal', denom. *siyattalliya-* 'to seal' (also *siyatar*, *siyattariya-*), a secondary meaning of *sai-*, *siya-* 'throw, shoot; press' < IE **sē-*.

TERRITORIAL, SOCIAL, AND POLITICAL DIVISIONS; SOCIAL
RELATIONS

19.11 — COUNTRY — Normally KUR; the Hitt. reading is *udne-*, see 1.21.

19.12 — ONE'S NATIVE COUNTRY — As 19.11.

19.13 — COUNTRY (VS. TOWN) — *gim(ma)ra-*, 1.23.

19.14 — REGION, TERRITORY — KUR (Hitt. *udne-*), 1.21; cf. also URU 'city' (*happira-*), 19.15.

The plural of Hier. *arhi-* 'boundary' (19.17) may mean 'territory', like Lat. *finēs*; e.g. pl. *Atanwani*^{CITY} *arhī* 'the territory of Adana' (P 134).

maniyahhai- 'administrative district', fr. *maniyahh-* 'administer', 19.31.

19.15 — CITY, TOWN — *happira-*, *happiriya-* (URU), originally adjectival fr. *happir-* 'business, trade' (see 11.82, meaning 'place of trade, trading-post, market', etc. (EHS 186; Neu, *Anitta-Text* 106-9; P s.v.). There is also URU-*riasessar*, probably *happiriya-* 'town' + *asessar* 'settlement' < *asas-* 'settle' (12.12).

19.16 — VILLAGE — *happir(iy)a-* (URU), as 19.15.

19.17 — BOUNDARY — OHitt. *arha-* (Hier. *arhi-*), class. *irha-* ‘line, rim, limit, boundary’ (ZAG) is from **orH₁₀-* or **ṛH₁₀-* and cognate with Lat. *ōra* ‘edge, boundary, coast, region; rope’. Numerous derivs. include *arhai-*, *irhai-* ‘circulate; list; finish up’, *arha* ‘off, away, out of’, *arahza*, *arahza(n)da-* ‘around’, *arahziya-* ‘alien’, *arahzena(nt)-* ‘bordering, external, foreign’, etc. Possibly Lat. *re(d)-* < **rE₂e-* also belongs here. Cf. P 129-35, T 55-56.

19.21 — PEOPLE (POPULACE) — *antuhsatar* (UKÛ^[MEŠ]-[a]tar) and *antuhsannant-* (UKÛ^{MEŠ}-annant-), fr. *antuhsa-* ‘man’, 2.1.

19.23 — TRIBE, CLAN, FAMILY — *hassatar* ‘family, clan’, also ‘procreation, generation; womb’, is a verbal abstract from *has-* ‘beget; give birth’ (see 4.72), and the parallel *hassana-* ‘familiaris’ is a hypostatic thematic form from gen. *hassannas* (T 198). The *-n-* in variant *hansatar* is anticipatory or analogical; T 149.

On *panku-* (perhaps ‘community, collectivity’) see 13.13.

19.31 — RULE, GOVERN — The primary sense of *maniyahh-* is ‘hand over, distribute’, whence ‘allocate, administer, govern’ (also *maniyahhai-*), with derivs. such as *maniyahha-*, ^{LÚ}*maniyahhatalla-* ‘deputy, administrator, governor’, etc., *maniyahhai-* ‘administrative district; administration’ (EHS 432, CHD 3.163-70). Denominative origin in **m(a)n-yé-* < IE **mAn-* ‘hand’ (IEW 740) is plausible, cf. Oettinger, *Stamm.* 458 (comparing Lat. *mandāre* ‘entrust, order’).

tapar-, *tapariya-* ‘rule, govern’, ^{LÚ}*tapariyalli-* ‘commander’ are obscure and thought to be of Luwian origin (HWb. 21-11; *Stamm.* 384). Cf. also the dynastic name *Tabarnas*, *Labarnas*.

hassuwai- ‘rule’, denom. from *hassu-* ‘king’ (19.32); T 211.

19.32 — KING — Rather than an unsupported link with *has-* ‘beget’ (in Sommer, *Hethitisches* II [= *Boghazköi-Studien* 7 (Leipzig,

1922)], p. 9, n. 2; *EHS* 251; etc.; cf. T 207), the source of *hassu-* is best sought via a reconstruction **H₁onsu-* (cf. *dassu-* < **d_hsu-*), as in Polomé's comparison with ON *áss* (pl. *Æsir*, Run. *a[n]su-*) 'god', Avest. *ahū* 'lord', Skt. *ásura-*, Av. *ahura-* (*Études Germaniques* 8 [1953]: 36-38; cf. Oettinger, *Eide* 24, n. 8). Usually written LUGAL.

19.33 — QUEEN — *hassusara-* (SAL.LUGAL), formed from *hassu-* 'king' with fem. suffix *-sara-* (T 210-11).

19.34 — EMPEROR — Cf. LUGAL.GAL 'great king'.

19.35 — PRINCE — DUMU.LUGAL (Akk. *mār šarri*) 'king's son'.

19.36 — NOBLE, NOBLEMAN — *isha-* (EN), 19.41.
panku- may be 'body of the nobility'; see 13.13.

19.37 — CITIZEN — The inhabitants of a town are referred to simply as e.g. LÚ^{MEŠ}URU *Taptina* 'the men/people of T.'.

19.38 — SUBJECT — ÌR, 19.43.

19.41 — MASTER — *isha-*, *esha-* (EN, *BELU*, *BELTU*) 'master, lord', *ishassara-* 'lady, mistress' (GAŠAN), *ishizziya-* 'be lordly, dominate'. Etymology uncertain; suggested cognates have included Lat. *erūs* < **esH₁o-* (from F. Ribezzo, *Rivista Indo-greco-italica* 4 [1920]: 128), Arm. *išxan* 'ruler, prince' (P. Jensen, *ZA* 36 [1925]: 82), and Hitt. *ishiya-* 'bind' (E. Forrer, *ZDMG* 76 [1922]: 217), although cogent objections can be raised to all these. The most satisfactory solution is a source in Hattic *shap/w-*, *ashap/w-* 'god', collective *washap/w-*, linking further Luw. *washai-*, *washa(n)t-*, Hier.

washa- ‘master’ and possibly Pal. *pashullasas*, *washullatiyas* (Laroche, RA 41 [1947]: 77-78; T 372-77; P 385-90).

19.42-19.43 — SLAVE; SERVANT — The Hitt. reading of ÌR (Akk. *ardu*) ‘servant, slave, subject’ is unknown; likewise ^{LU}AMA.(A.)TU ‘house slave’, GEME(-*assara-*) ‘female slave, maidservant’, SAG.GEME.ÌR^{MES} ‘servants’ (HWb. 265, 273, 278, 290).

19.44 — FREE — *arawanni-* is specifically the opposite of ÌR ‘slave’, from *arawa-* (Lyc. *arawā*) ‘free’ (ELLU), with widespread onomastic and toponymic attestation: e.g. Cappadocian personal names *Arawa*, *Arawahsu*; ^{URU}Araunna, ^{URU}Arawanna, etc.; Ἀρούνης, daughter of the Lydian Alyattes (Herodotus 1.74); Steph. Byz. Ἐρευάτης: ἀπὸ Ἐρεύας τῆς καὶ Ἐλευθέρας. For etym. see *ara-* ‘right’, 16.73. T 53-55, P 119-21.

19.45 — COMMAND, ORDER — *hatrai-* ‘decree’, 18.51.

tapariya- ‘rule, be in power’, 19.31.

sasha- ‘arrange, assign, order’ is a reduplicated **se-sE₂-eA₂(-y)-*, corresponding to pf. **sE₂óye-* in *ishai-* ‘bind’ (9.16); cf. Sturtevant, *Comp. Gr.*¹ 247.

watarnahh- ‘commission, charge’ or the like, possibly from IE **(A₂)wed-* ‘speak’ (Skt. *vádati*, Gk. ἀὐδή ‘voice’, etc.; IEW 76), via a **(A₂)wod-*r*-no-A₁-* (Sturtevant, *Comp. Gr.*² 61; Oettinger, *Stamm*b. 458).

19.46 — OBEY — *istamas-* and Luw. *tummantai-* ‘obey’ < ‘hear, listen’; cf. 15.41-15.42, 4.22.

19.47 — LET, PERMIT — *tarna-*, 12.18.

19.48 — COMPEL — GEŠPU-*ahh-*, with GEŠPU ‘strength, power;’ restraint’, lit. ‘fist’; *HWb.* 273.

19.51 — FRIEND — LÚ/SAL*ara-*, see 16.73.

sakkant- ‘acquaintance’, part. (variant of normal *sekkant-*) of *sakk-* ‘know, recognize’, 17.17.

Cf. also *genzu-* ‘love, friendship’, 16.27, 4.447.

LÚ*taksulas* ‘ally’, fr. *taksul* ‘agreement’, 12.92.

19.52 — ENEMY — (LÚ)*kurur*, originally abstract ‘animosity, hostility’ (*kururiya-* ‘be hostile to, fight with’, *kururiyahh-* ‘treat as an enemy’), may reflect **ghwr-wr* ‘crookedness, trick’ < IE **ghwer-* ‘be crooked, bent’ as in Skt. *hvárate* ‘be crooked, go astray, awry’, Av. *Zurah-* ‘injustice, evil’ (Eichner, *MSS* 31 [1973]: 75), or perhaps better **kwr-wr* ‘division’ : H. *kuer-* ‘cut’ (9.22); cf. *harpu-* ‘hostile’ < *harp-* ‘separate’ (12.23) (Sturtevant, *Comp. Gr.*¹ 119, 148; Laroche, *BSL* 58 [1963]: 69). See also E. Neu, *Athenaeum* 47 (1979): 407-27; T 665-67.

harpanalli- (cf. *harpu-* ‘hostile’ and Luw. *harpana-* ‘revolt’) is from *harp-* ‘separate (from)’ (12.23); see Gusmani, *Lessico* 93; DLL 42; T 182.

LÚKÚR is usually read *kurur*, though this is rejected by Neu (loc. cit.).

19.53 — COMPANION — LÚ/SAL*ara-*, 16.73.

19.55 — STRANGER — LÚ*arahzena-*, *arahzenas* UKÛ-*as* ‘foreigner’ fr. *arahza-*, *arahzena-* ‘alien, foreign’, lit. ‘bordering’; cf. *arha-*, *irha-* ‘border, boundary’, 19.17 (P 133-34).

19.58 — HELP, AID — (*anda*) *warrai-* (also *waressa-*), denom. from a *warra-*, a dat.-loc. or early form of *warri-* ‘aid, (military)

support' (*Stammb.* 504). The basic sense is 'mutual aid under treaty', and matches that of the cognate Hom. ἥρα, as shown by Gusmani (*SMEA* 6 [1968]: 17-22), comparing especially ἐρί-ηρες ἑταῖροι (: Myc. name *E-ri-we-ro*) and securing an important Greek-Anatolian isogloss.

Other expressions are *appa(n) es-* 'be behind, back up' (cf. Fr. *assister* < Lat. *adsistere*), *appan tiya-* 'get behind' (10.45), *appan huwai-* 'run behind' (10.46; cf. for meaning Gk. ἐπικουρέω and Lat. *succurrere* like *subvenire*).

harp-, *harpiya-* 'join up with', 12.23.

19.61 — CUSTOM — *saklai-* 'custom, law, rite' is an abstract deriv. in *-lā-* or *-li-*, generally assumed to be related to Lat. *sacer* 'sacred', *sanciō* 'ordain', ON *sátt*, *sætt*, OE *seht* 'treaty' (Sturtevant, *Comp. Gr.*¹ 87, *EHS* 206). Alternatively, the root could be Hitt. *sak-* 'know', thus *saklai-* '(traditional) knowledge, what is known or usual'; cf. NIr. *nós* 'custom' < OIr. *gnás* (W. [*g*]naws) 'nature, disposition', W. *gnawd* 'customary' : OIr. *gnáth* 'usual, known', Lat. *nōtus*, Gk. γνωτός, etc. 'known'.

19.62 — STRIFE, QUARREL — *halluwai-*, with denom. *halluwai-* 'fight, brawl, quarrel' and vbl. noun *halluwātar*, probably from the same **A_w2l-n-(e)A_w1-* as *hallanniya-* 'lay waste, ravage' : Gk. ὀλλῦμι (see 11.27). Thus P s.v., doubting the earlier comparison with Gk. ἀλύω 'be distraught, be beside oneself' (Benveniste, *Athenaeum* N.S. 47 [1969]: 30-31) on semantic grounds and assigning ἀλύω to Hitt. *alwanzatar*, etc. 'witchcraft' (22.42; P 43-47). Cf. also Puhvel, *Bi. Or.* 36 (1979): 57.

sulli- 'fight' with *sullatar* fr. the corresponding (denom.?) verb *sulla-*, invites a reconstruction from **sul(H)-*, but further root-relation is obscure (*EHS* 505, Oettinger, *Stammb.* 291-93). Schindler's identification of *sulla-* with *hulla-* 'strike' (*Die Sprache* 15

[1969]: 160), presumably via *s-mobile*, is unlikely; the initial **sh-* would yield **ish-* (*Stamm* 293, n. 70).

sarupa-, etym. unknown (*EHS* 184).

Words for 'strike' can have 'fight, come to blows' as a secondary meaning; thus *kuen-*, *hulla-*, *walh-* (9.21). Cf. also *argatiya-*, 16.43.

19.63 — PLOT, CONSPIRACY — *kup-* 'to plan, plot', Luw. *kupiya-*, *kukupalatar* 'conspiracy'; see 16.68.

tastasiya- 'whisper; plot' may be onomatopoeic, with reduplicated **tas-* (Van Brock, *RHA* 22 [1964]: 158, n. 1).

Also note *appali dai-* 'set a trap' (16.68) and HUL-*lu takkes-* 'weave evil' (6.33).

19.65 — MEET — *anda wemiya-*, with *wemiya-* 'find' (11.32), lit. 'find in', like Bret. *en em gavout*, refl. of *kavout* 'find'.

hazziya- 'strike, hit (upon)' (9.21), cf. NHG *treffen*.

19.71 — PROFESSIONS, OCCUPATIONS — Terms for those involved in a large number of occupations are known, practically all in sumerographic form; cf. *EHGl.* 62-64.

19.72 — PROSTITUTE — ^{SAL}KAR.KID (Akk. *harimtu*) 'prostitute', SAL.SUHUR.LAL 'temple prostitute, hierodule'.

WARFARE

20.11 — FIGHT — The verbs for ‘fight’ are essentially those for ‘strike’, thus esp. *hulla-*, (*hul*)*hulli-*ya-, also *walh-*; *kuen-*; *zahh-*, *zahhiya-* (Lyc. *zχχāna* ‘to conquer’); *lahiyai-*; 9.21. Cf. also *argatiya-* ‘come to violence’, 16.43, *kururiya-*, denom. from *kurur-* ‘enemy’ (19.52), and *halluwai-* ‘brawl, quarrel’ (19.62).

20.12 — BATTLE — Deverbative *hullanzatar*, *hullanza(i)-*, *hulhuli-* from *hulla-* ‘strike down’, *zahhai-* fr. *zahh-* (9.21).

20.13 — WAR — Besides the words for ‘battle’ (20.12), there is Hitt. *lahha-* ‘war, military campaign; journey’, usually in dat.-loc. *lahhi*, *lahha* and comparable with Hom. *δαῖ* ‘in battle’ (with areal *d-* ~ *l-* variation). Further related forms are Lyc. B *laka-*, H. *lahhiyala-* ‘soldier; traveller’; cf. Hes. *λαίλας* · *ὁ τύραννος ὑπὸ Λυδῶν* (Gusmani, *SMEA* 6 [1968]: 14-28).

20.132 — ENEMY — See 19.52.

20.14 — PEACE — *taksul*, lit. ‘agreement’ < *takk(e)s-* ‘agree, come to terms’ (6.33), with *taksulai-*, *taksul iya-*, *taksul da-* ‘make peace, conclude a treaty’.

20.15 — ARMY — *tuzzi(ya)-*, *tuzziyant-* (KARASĚ ‘army’, ERÍN.MEŠ ‘troops’) is from IE **tewti-*, cognate with WIE **teutā* ‘the

people' as in Goth. *piuda* (OE *pēod*, ON *þjóð*, OHG *diutisc*, NHG *deutsch*), OIr. *túath* (W. *tud* 'country'), Osc. *touto*, Umbr. acc. *totam*; Latv. *tàuta*, OLith. *tautà* (Sturtevant, *Comp. Gr.*¹ 155; IEW 1080).

Possibly also cognate is Luw. *kuwatna-* 'army (camp)', if from **twat-na-* (vs. Hitt. *tut-i-*) via "Lycianism" *tw-* > *kw-* (Laroche, *BSL* 62 [1967]: 50). Neumann (*KZ* 90 [1977]: 142-43, seconded T 620) prefers a hypostatic obl. form of a **kuwatar* and comparison with OHG *houwan*, OE *hēawan*, ON *hoggva* 'hew', Lith. *káuju* 'strike', Lat. *cūdō* 'strike' (IE **kāu-*, **kéAw-*, IEW 535).

A reading *kula-* (posited by Bossert, *Die Sprache* 4 [1958]: 115-26) is refuted at length in T 620-21.

20.17 — SOLDIER — *kussan(iy)atalla-* (^{LU}KAŠKAL-*la-*) is from *kussaniya-* 'hire' < *kussan-* 'wages, pay' (11.78), thus 'hireling, mercenary' (T 670-71); cf. Skt. *vasnika-* 'id.' from *vasnám* 'wages; price'; similarly Lat. *soldārius* and Romance derivs., from *solidus* 'gold coin'.

lahhiyala- 'soldier; traveller' fr. **lahhiya-* 'go to war; travel', 20.13.

20.18 — GENERAL — EN KARAŠ, EN ERÍN.MEŠ, perhaps GAL.GEŠTIN (an official, lit. 'wine-chief').

20.21 — WEAPONS, ARMS — ^{GIŠ}TUKUL.HI.A 'weapons, implements, tools'.

20.22 — CLUB — Hitt. and Luw. *hattalla-*, fr. *hattai-* 'chop, strike', 9.22. For 'axe' see 9.25.

20.24 — BOW — ^{GIŠ}BAN. Words for 'bowstring' are *ishunau-*, primarily 'sinew' (4.31) and *istagga(i)-*, comparable with OE *stæg*,

ON *stag* 'cable, hawser' (Neumann, KZ 77 [1961]: 79; Gusmani, *Lessico* 69; P 451).

20.25 — ARROW — The terms are *suhmili-* and *nata-/i-* (GL, ^{GI}KAK.Ú.TAG.GA), both etymologically obscure.

20.26 — SPEAR — Two types are referred to in the texts, designated *mari-* and *turi-* (probably = ^{GI}ŠUKUR); cf. CHD 3.183-84. Neither has been explicated.

20.27 — SWORD — The reading *malatti-*, hesitantly recorded in e.g. HWb. 133, EHGl. 96, HDW 49, is very doubtful: cf. CHD 3.128.

20.33 — HELMET — *gurpis(s)u-*, *gursip(p)u-*, fr. Akk. *qurpisu*, a type of head- and neck-protector for men or horses; T 653-54.

20.34 — SHIELD — Luw. *palahsa-* may belong with Skt. *phálakam* 'shield, board, plank', ON *ffjöl* 'board, plank', IE **p(h)el-* (*H₁-*); Bomhard, RHA 31 (1973): 111.

20.35 — FORTRESS — *halzi-* (HALZI), Akk. *halšu-*. Perhaps also related are Gk. ἄλτις, the name of the temple precinct in Olympia, and ἄλσος (< *ἄλτιος) 'glade, grove' (T 141, refs.; Petersen, Lg. 10 [1934]: 314).

sahessar (BÂD-essar) is a verbal noun fr. the same *sah-* 'clog, plug, stuff up' (IE **dhyóE₂-*) seen in *sehur*, Luw. *dūr* 'crap, urine', Lat. *faeces*, etc. (4.65), thus 'shut area; stronghold', and produces denom. *sahesnai-*, *sahesn(a)eski-* 'fortify, make into a stronghold' (AI 301).

Several possibilities exist for *gurta-* 'citadel'. Though labeled semantically wanting in T 659, Sturtevant's early derivation from *kuer-*, *kur-* 'cut (off)' (Comp. Gr.¹ 119, 157) remains conceivable.

Most plausible seems to be a comparison with numerous Aegean and Asian place-names; e.g. Cretan and Arcadian Γόρτυν, Γόρτυς (cf. Myc. dat.-loc. *ko-tu-we*, gen. *ko-tu-wo*), Thess. Γυρτών, Phrygian Γόρδιον, Γορδιεῖον (cf. P. Kretschmer, *Glotta* 31 [1951]: 11, n. 1), though further connection with Skt. *grhá-*, Goth. *gards* 'house', Lith. *gaĩdas* 'fold, pen', OCS *gradŭ* 'city', or Lat. *hortus*, Gk. χόρτος 'feeding-place' (beginning with Benveniste, *BSL* 33 [1932]: 139, further refs. T 659) is less likely. The Mitannian place-name *Gurta* also points in the direction of Skt. *kuṭa-* 'fortress' (T 661).

20.36 — TOWER — *auri-*, *awari-* is a 'watch-tower', with noun-forming suffix *-ri-* (cf. *edri-* 'food', *es[sa]ri-* 'shape; fleece') on *au(s)-* 'see, watch' (15.51), with derivs. *auriyala-*, *auriyatalla-* 'watchman, guard' (P 232-34).

20.41 — VICTORY — Probably *tarahhuwar*, vbl. noun from *tarh-* 'overcome, conquer, be mighty' (4.81).

Lyc. *zχχāna* 'to conquer', *zχχāte* 'they conquered' is cognate with H. *zahhiya-* 'fight' (9.21; Puhvel, *Evidence* 84 = AI 130); cf. also *hulla-*, *hulliya-* 'fight, strike down' (9.21) and *(-za) tarh-* 'conquer, overcome' (4.81).

20.42 — DEFEAT (sb.) — *arpa-*, see 16.19.

20.45 — RETREAT — The verb is *appa ep(p)-* 'pull back', 11.14 (P 273).

20.46 — SURRENDER — *hink-* 'turn over, give up; sacrifice'; seemingly the verb underlying *henkan-* 'death, disease, plague' < IE **E₂enĕ-* (see 4.75), although a relationship to *hink-* 'bow, show reverence' (**A₁enĕ-*; 9.14) is also conceivable. T 246-50.

20.47 — CAPTIVE, PRISONER — *appant-* (ŠU.DIB), part. of *ep(p-)*, *ap(p)-* ‘seize’, 11.14.

arnuwala- (NAM.RA) ‘displaced person, deportee’, fr. *arnu-* ‘move, remove, transport, bring’, etc., caus. to *ar-* ‘move, stir’; see 10.61.

The etymology of ^{LÜ}*hippara-* ‘prisoner’ (as a social class) is disputed; cf. T 251-52; Van Windekens, *BHD ... Kerns* 337-38.

20.48 — BOOTY, SPOILS — *sāru-* (denom. *saruwai-* ‘plunder’) was connected by Gusmani (*Lessico* 100) with *sarra-* ‘divide, break off’, etc. (12.232).

20.49 — AMBUSH — Possibly *senahha-*, *sinahha-*, of unknown origin (*EHS* 166; *Alimenta* 125).

LAW

21.11 — LAW (GENERAL = LAT. *IŪS*) — The sense is included in the verbal noun *hannessar* fr. *hanna-* ‘judge, decide’, 21.16.

‘Right, justice’ are *handatar*, vbl. noun fr. *handai-*, and *āra-*; 16.73.

21.12 — LAW (SPECIAL = LAT. *LĒX*) — *ishiul*, lit. ‘bond’, fr. *ishai-*, *ishiya-* ‘bind’ (9.16), thus ‘treaty, obligation’ (P 400-1).

saklai- ‘custom, law, rite’, 19.61.

21.13 — LAWSUIT — *hannessar*, 21.16.

21.15 — COURT — *hurki-* ‘court of law, legal machinery’ is an extension of the primary meaning ‘wheel’ (10.76), reflected in the legal phrase *hurkin halenzi*, lit. ‘they start the wheel turning’ = ‘they begin legal proceedings’, also ANA ^{GiŠ/D}DUBBIN *lamniyat* ‘summoned to the *hurki-*’ (Puhvel, *AI* 217-19; *Bi. Or.* 37 [1980]: 204, comparing the Roman *Rota*).

tuliya- ‘Ratsversammlung, Gerichtssetzung’, obscure (*HWb.* 228, *EHS* 170).

21.16-21.162 — JUDGE; DECIDE — The verb *hanna-*, iter. *hanniski-*, *hassiki-* (cf. Lyc. *qan-*; *qas-*), may be connected with Gk. ὀνομαί ‘blame, find fault with’, as in redupl. Hitt. *hanhaniya-* ‘blame’ (16.78); Van Brock, *RHA* 22 [1964]: 139-41), IE **A^w₁(é)n-o-*.

Comparison with Gk. ἀναίνομαι ‘spurn, reject’ (Čop, KZ 85 [1971]: 26-30) should be rejected in view of Puhvel’s equation of the Gk. form with H. *enant-* ‘tamed’, IE **ain-* ‘be agreeable’ (P 271), while analysis as a caus. to *hai-* ‘believe’ (EHS 562) is morphologically questionable and semantically facile. Cf. also Hier. *haniyata* ‘bad, evil’, via ‘condemned’? (T 146-48, refs.).

The verbal noun *hannessar*, with obl. *hannesna(nt)-* and further abstracted *hannesnatar*, covers such notions as ‘law; court case, lawsuit; decision, verdict’, etc., through its basic sense ‘judgment’ (EHS 289, 295; Laroche, BSL 57 [1962]: 38-39). Sum. DI, DI.KUD, DI-essar, Akk. *dīnu*.

21.17 — JUDGEMENT — *hannesnant-*, *hannessar*, etc., 21.16.

21.18 — JUDGE — The arbiter of justice seems generally to have been the king.

21.21 — PLAINTIFF — *hannitalw(na)-* ‘legal opponent’, probably formed with multiple suffixes on an agent-noun **hannitalla-* fr. *hanna-* ‘judge’; EHS 182, 193; T 148.

hantitiyatalla- is likewise an agent-noun, from the verbal cpd. *hantitiya-* ‘inform, accuse’, 21.31.

The Akk. legal term *BEL AWATI* ‘lord of the case’ yields the Hitt. loan translation *uddanas isha-* (EHGl. 69); similarly *hannesnas ishas* ‘lord of the judgment’ = *BEL DINI*.

21.23 — WITNESS — *kutruwa(n)-* (Akk. *ŠIBU*, *ŠEBU*), with derivs. *kutruwai-* ‘bear witness’, *kutruwah(h)-* ‘summon as a witness’, vbl. noun *kutruwatar* ‘witnessing’. An ingenious early etymology (by C. H. Carruthers, Lg. 9 [1933]: 151-52) derived the term (as *kutru-*) from IE **k^wtr-u-* ‘fourth (party to a dispute)’, comparing Lat. *testis* < **tris-tis*, but was quickly superseded by a

more cogent connection with Lith. *gudrùs* 'wise, clever', *gùsti* 'practice, become used to', with the sense of the thematized Hitt. *kutruwa(n)*- thus 'expert witness' as in Goth *weitwops*, etc. (DSS 1436; cf. Pedersen, AO 5 [1933]: 177-79; Puhvel, *Gedenkschrift Kronasser* 182 and P s.v.).

21.24 — SWEAR — *link-* (caus. *linganu-*) 'swear', also 'swear falsely, commit perjury', may be related to Lat. *ligāre* 'bind', NE *leech* (*line*), as IE **leyg-*, **li-n-g-*, with the sense of legal obligation in Lith. *laigōnas* 'wife's brother' (like Gk. *πενθερός* 'father-in-law' < **bhendh-*), Hes. *λοιγωντίαν · φρατρίαν*, as well as Lat. *obligāre* (IEW 668; Pedersen, Lg. 9 [1933]: 10).

lingain iya- 'make (administer or take?) an oath', *linkiya kattan dai-* 'place (words, etc.) under oath', with *lingai-* 'oath'.

huek-/huk- (iter. *huk[k]iski-*) is traditionally glossed 'swear' and compared with IE **wek^w-* 'speak, declare' (Sturtevant, Lg. 6 [1930]: 226) or better Gk. *αὐχέω* 'brag, boast' < IE **A₁w(e)gh-* (IEW 348; Knobloch, *Kratylos* 4 [1959]: 35; M. Peters apud Oettinger, *Stamm* 103, n. 34a); cf. T 255-57. These etymologies are not inconsistent with the more precise definition 'conjure, utter incantations'. A comparison with Skt. *uśij-*, title of a priest, appeared in T. Burrow, W. B. Henning Memorial Volume 37, while J. Holt (*Festschrift J. Friedrich* 216-19) tried to connect Goth. *weihan* 'consecrate', Lat. *victima*, intimating an ultimate identity with the root of H. *huek-* 'slaughter' (4.76); the difficulties of this approach were anticipated already by Puhvel, LIEV 24-25.

21.31 — ACCUSE — *hantitiya-* 'inform on, bring to justice' (cf. *hantitiyatalla-* 'informer, plaintiff') is literally 'step forward' or 'confront' (*tiya-* + *hanti*), i.e. with evidence or charges; an interpretation as dat.-loc. 'step before the face (of the judge [or the

accused?])' < *hant-* 'forehead; (face)' (EHS 161, T 157) seems unnecessary.

(*appa*) *isiya(hh)-* 'disclose, expose, inform on, denounce', *ishiyahhiskattalla-* 'denouncer, informer', with *isiyahh-* (22.47; P 409-13).

21.32-21.33 — Condemn; Convict — *hanna-*, 21.16.

21.34 — ACQUIT — *parkunu-* 'acquit, absolve', lit. 'make clean', fr. *parkui-* 'clean' (15.87).

huldalai- 'spare', 11.25; *haratar lā-* 'forgive', 16.69.

duddunu- 'pardon, show mercy towards', from *duddu-* 'mercy' or 'be merciful' (via denom. **dudduwai-* according to *Stamm.* 167, n. 79); cf. also *duddumar* 'mercy, grace' (Goetze, *ANET* 400; EHS 305, 456); source ?

21.36 — INNOCENT — *parkui-*, lit. 'clean', 15.87.

Luw. *niwalli-*, *niwalla-*, etym. ? (Friedrich, *Staatsverträge* 1: 176; ZA N.F. 5 [1930]: 50; HWb. 152).

21.37-21.38 — PENALTY, PUNISHMENT; FINE — *zankilatar*, vbl. noun from *zankilai-*, unconvincingly compared with Lat. *sancio* 'consecrate, confirm' (Umbr. divine epithet *Sansi*) in *Stamm.* 152, n. 40.

dammesha- 'damage, act of violence; punishment', denom. *dammeshai-*, formed from *damas-*, *tames-* 'press, oppress', 9.342 (EHS 166).

sarnikzel- 'compensation', with noun-forming *-el-* on *sarnikzi*, *sarnink-* 'atone for, make good', 11.23 (EHS 325).

Lyc. *qanuwetī* and *qastti* 'punish' belong with H. *hannai-* and *hasskizzi* 'judge', 21.16 (Pedersen, *Lykisch und Hethitisch* [Copenhagen, 1945], p. 26-28, 46; Puhvel, *Evidence* 84 = AI 130).

21.39 — PRISON, JAIL — É *KĪLI*, *BĪT ŠIBITTI*, É EN.NU.UN? (read *lustani*- by Laroche, see 7.22); *HWb.* 270; *EHG.* 71.

21.41 — CRIME — *hurkel* is best connected with OE *wyrgan*, OHG *wurgen* 'strangle', ON *virgill*, OE *wurgil* 'rope', Lith. *veržiù* 'constrict', IE **H₁wer-gh-*. The meaning is 'hanging matter, capital crime, abomination', with LÚ.MEŠ *hurkilas* 'criminals, demons' analogous to OE *wearg*, OHG *warg* 'robber, criminal', ON *vargr* 'wolf; outlaw (who could be killed with impunity)'. Cf. Petersen, *JAOS* 59 (1939): 179; *AI* 216-19; Bomhard, *RHA* 31 (1973): 111.

wastai- 'sin', 16.75; *haratar* 'guilt, offense', 16.167.

21.42 — MURDER — *kunatar* and *kuennuwar*, verbal nouns 'killing' from *kuen-* 'kill' (4.76), hence parallel to Gk. *φόνος* and Avest. *ḵnərə-* (*DSS* 1454-56, T 604-6).

ishanas uttar 'a matter of blood, case of murder', cf. *eshar iya-* 'commit murder', lit. 'make (shed) blood', like Akk. *dāmi epēšu* (Kronasser, *Festschrift J. Friedrich* 275-76, 286; *EHS* 125; P 305-8).

21.43 — ADULTERY — Possibly *pupuwalatar*, fr. *LÚpupu-* 'lover, paramour', compared as a "Lallwort" with Akk. *bubu* 'beloved' in *HWb.* 173.

21.44 — RAPE — *wen-* was compared with Skt. *vánati* 'wish, love, desire', Lat. *venus* 'love', etc. (IE **wen-* 'desire, strive for', *IEW* 1146) by Petersen, *AO* 9 [1937]: 213.

21.45 — THEFT — *dayawar*, *taya(z)ili-*, *tayazzilatar*, verbal nouns from *tāya-* 'steal', 11.56.

21.47 — PERJURY — *lingai-* ‘oath’ can also connote ‘false oath, perjury’; likewise *link-* ‘swear (falsely)’ (21.24, 21.25; *CHD* 3.63, 69).

Luw. *lawarr-* ‘despoil, strip’, also ‘transgress an oath’ (9.26, *CHD* 3.49).

RELIGION AND SUPERSTITION

22.12 — GOD — To the lexical descendants of IE **dyew-*, **deiw-o-* Hittite adds *siu-* (DINGIR), with variants *siun(i)-*, *siwann(i)-*, *siwant-* and adj. *siunalli-* (= Lyd. *ñiuvali-* [Gusmani, *Lyd. Wb.* 93]). Cf. also Luw. *Tiyaz* ‘sun, sun-god’ = H. *siwat(t)-* ‘day’ (14.41). *HWb.* 194-95.

A separate stem, of obscure origin, is seen in Luw. *massani-*, *massana-*, Lyc. *mahāna-*, Hier. GOD-*ni/na-* (cf. Laroche, *Fouilles de Xanthos* 6 [1979]: 107-8).

On the many individual Hittite gods and the general aspect of Hittite religion see e.g. Gurney, *The Hittites* 132-69.

22.13 — TEMPLE — No compelling Indo-European etymology has been recorded for neut. *Ékarimmi-*, comm. *Ékarimna-* (É DINGIR[-LIM]). Suggestions include OCS *chramŭ* ‘house’, Skt. *harmyá-* ‘palace, mansion’ < IE **gṛm-*, **ghorm-* (Machek, *Die Sprache* 4 [1958]: 74) and Lat. *caerimonia* ‘holiness; reverence; sacred ceremony’ (Juret, *Vocabulaire* 8); also Arm. *xoran* ‘altar, tabernacle’ (Jahukyan, *Hayerenā* 157); see T 507-8. Agent-noun *ᵛᵛkarimnala-* ‘temple servant’.

22.14 — ALTAR — *istanana-* (ZAG.GAR.RA) is probably from IE **stā-* ‘stand’, with nasal stem as in OCS *stanŏ*, Arm. *stanam*, Lat. *-stināre*, etc. ‘place, stand, (af)fix’ (*IEW* 1008) and *-no-* suffix, cf. Skt.

sthānam, Av. *stāna-*, Lith. *stónas*, OCS *stanŭ* 'stand(ing place)'; P 461-63.

Lat. *āra-* matches H. *hassa-* 'hearth', 7.31.

22.15 — SACRIFICE, OFFERING — *ispanduzzi-* 'libation (vessel)', from *sippand-*, *ispand-* 'pour, libate', 9.35.

maltešsar 'recitation, vow, votive offering', vbl. noun fr. *mald-* 'recite; vow' (22.17; CHD 3.132-35, 136-37).

22.16 — WORSHIP — *hink-* 'sacrifice', primarily 'hand over, surrender', see 20.46 and 4.75.

sippand-, *ispand-* 'pour a libation', 9.35.

22.17 — PRAY — *mūgāi-* matches Gk. μύζω 'murmur', Lat. *mūgiō* 'bellow, roar, rumble, groan' (Benveniste, BSL 33 [1932]: 140); IE **m(e)wg-* or **mūg-*, perhaps ultimately of imitative origin.

mald-, *malda-* 'recite', also 'vow, promise' (CHD 3.132-35), compared with Lith. *meldžiù*, *mełsti*, OCS *molsti* 'beg', *molitva* 'prayer', etc. (cf. DSS 1471) since Benveniste (BSL 33 [1932]: 133-35; cf. Laroche, *Prière hittite* 8-13), may be the source of Arm. *malthem* 'wish, pray' (Schultheiss, KZ 77 [1961]: 225).

22.18 — PRIEST — The generic term for the many types of priest is ^{LÚ}*sankunni(yant)-* (^{LÚ}SANGA), from Akk. *šangū*.

Lyc. *kumaza*, 22.19.

22.19 — HOLY, SACRED — Hittite words corresponding most closely to the modern sense of 'sacred' or 'holy' are mainly those for 'clean, pure', in ritual context; thus *suppi-*, *parkui-*, 15.87.

From Lycian come the terms *kumaza* 'ἱερεύς', *kumezi-* 'θύειν', *kumaha-* 'κατιερώθη', *kumehi-* 'ἱερεῖον', and *kumeziye* 'βωμός', corresponding to Luw. *kummai-* 'sacred, pure' (cf. Laroche,

Académie des Inscriptions & Belles-Lettres, Comptes rendues des séances 1974: 723; *Fouilles de Xanthos* 6 [1979]: 98, 108-10). Etymology ?

OCS *svetŭ*, Lith. *šveñtas*, Avest. *spānta-* are cognate with Hitt. *kunna-* 'right, correct', etc., 12.41.

22.24 — CURSE — *hurt-*, *huwart-* 'to curse' (part. 'accursed', nominal *hurta-*, *hurtai-* 'a curse') is analogous to OPruss. *wert-* 'swear', Lat. *verbum*, Goth. *waurd*, NE *word*, from the IE root **H₁wer-* 'speak (solemnly), declare', etc. (IEW 1162-63), seen also in Hitt. *weriya-* 'call, summon' (18.41); cf. T 308-12. The preservation of the initial laryngeal in *hurt-* vs. its loss in *weriya-* is not easily explained, but may be comparable with *pe-hute* 'take away' vs. *u-wate* 'bring' (10.62).

22.31 — HEAVEN — *nepis(ant)-* 'sky, heavens' (AN, Akk. *šamū*), 1.51 (cf. Gusmani, *Studi ... V. Pisani* 504-5 and n. 12).

22.32 — HELL — The polar opposite of *nepis-* was characterized as *dankui tekan* 'the dark earth', the abode of men (cf. Hoffner, *JNES* 27 [1968]: 65, n. 33-34).

22.35 — DEMON (EVIL SPIRIT) — *kallar uttar*, literally 'nefarious being', cf. *kallar-* 'monstrous' (16.72) and *uttar* 'thing' (9.90), shares an ancient nuance of the supernatural or maleficent in IE **wekt(i)-*, as shown by the cognate ON *vétrr* '(supernatural) being', OE, OHG *wiht* (esp. OHG *lêda wihti*, NHG *bösewicht* 'villain'), a connotation which survives even into the Lesbian Γέλλω, an 'evil spirit' (AI 221-22).

tarpi- (Akk. *šēdu*), a usually malevolent spirit often invoked together with the mostly benign *annari-* (22.46), is of unknown origin, but traced as a loanword into Hebrew *terāphîm* by Hoffner, *JNES* 27 (1968): 61-68.

22.37 — IDOL — Images, models, and statues of divinities were ubiquitous in cult usage, and were commonly denoted by DINGIR-LIM-tar (= *siyuniyatar* ‘godhead, deity’, abstract noun from *siu[ni]-* ‘god’ [22.12]; cf. NHG *götze*). Cf. also *esri-* (ALAM) and *sena-*, 9.83.

22.42 — MAGIC, WITCHCRAFT, SORCERY — *alwanzatar* (UH₄-tar), *alwanzessar*, *alwanzahha-* ‘sorcery, witchcraft’, *alwanzena-*, *alwanzannas* LÚ-as ‘sorcerer’, *alwanzahh-* ‘bewitch’, all from a stem *alwanza-*. Connection with Gk. ἀλύω ‘be beside oneself’ (E. Polomé, *La Nouvelle Clio* 6 [1954]: 45-55, adducing also Latv. *aluôt* ‘be distraught’ and Runic *alu*, a magical term) is supported with reservations in P 43-46, suggesting a base-meaning ‘possessed’; cf. also Puhvel, *JAOS* 97 (1977): 599.

uddaniya- and *utnalliya-*, *uddanalliya-* ‘work magic’, denominative from the oblique stem *uddan-*, *utn-* (and suffixed *utnalla-*) of *uttar* ‘thing; matter; word, speech’ (9.90); Oettinger, *Stamm* 353).

22.43 — WITCH, SORCERESS — *alwanzenas* SAL ‘woman of witchcraft’. A frequently encountered but not clearly understood magical practitioner is the ^{SAL}ŠU.GI, lit. ‘old woman’.

22.45 — GHOST, SPECTER, PHANTOM — The ‘spirit’ or ‘ghost’ of a dead person is *akkant-* (GIDIM), part. of *ak(k)-* ‘die; be killed’, 4.75.

22.46 — GUARDIAN SPIRIT — Something analogous to Lat. *genius* ‘generative force’ or the like may be present in H. *annari-* (Akk. *lamassu-*), the personification of ‘strength, vigor’ with southern cultural influence indicated in the Luwian form *annari-*

vs. Hitt. **innara-* (4.81), seen in Hattic ^D*Inara-* = ^DLAMA 'protector-god'; see P 62-63 and refs.

22.47 — OMEN — *sagai-* (IZKIM) fr. *sak(k)-* 'know', 17.17; cf. Ital. *presagio*, etc. (DSS 1504).

A verb *isiya-* 'appear, be revealed' is indicated by *isiyatar* 'sign, revelation' and fact. *isiyahh-* 'disclose, expose, reveal, announce; inform on'. The etymon may be IE **edh-yo-* (cf. Skt. *āha*, Av. *āda* 'spoke', OPers. *azdā* 'announcement', possibly also Gk. ὄσσα 'voice' < **odhyA₂*), or alternatively **E₁eĝyo-*, with cognates in Gk. ἦ 'he said', Lat. *aiō* 'affirm', *prōdigium* 'portent', *Aius* (*Locūtius*); cf. P 409-13.

An occasional alternate reading of IZKIM is H. *ilessar*, *ilissar*, *ilassar*, *elassar* 'sign', of unknown origin (P 357-58, T 355).

ariyasessar 'oracle', perhaps *ariya-* + *asessar* 'place, site', arises from *ariya-*, *arai-* 'consult an oracle' (generally accomplished by the observation of omīna; cf. Gurney, *The Hittites* 156-60), probably related to Lat. *ōrō* (< *ōrāyō*) 'address the gods', *ōrāculum*; cf. P 136-38 and refs.

'To determine, find out' by means of an oracle is *handai-*, primarily 'arrange, set in order, set straight' (cf. 16.73).

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elephant 3.77	fear (sb.) 16.53	follow 10.52
emperor 19.34	female (of animals)	food 5.12
empty 13.22	3.13	foolish 17.22
enemy 19.52	few (pl.) 13.17	foot 4.37
enemy 20.132	field (for cultivation)	forbid 18.38
enter 10.57	8.12	forehead 4.205
envy 16.44	field (in broader	forest 1.41
equal 12.91	sense) 1.23	forget 17.32
error 16.77	fig 5.75	forgive 16.69
evening 14.46	fight (vb.) 20.11	form (sb.) 12.51
every 13.14	fill 13.21	fortress 20.35
evil spirit 22.35	find 11.32	fortune (good or ill)
ewe 3.28	fine (sb.) 21.38	16.17; (good) 16.18
explain 17.38	finger 4.34	fowl (3.51)
eye 4.21	finish 14.27	fragrant 15.25
eyebrow 4.206	fir 8.65	free (adj.) 19.44
excrement (also vb.,	fire 1.81	friend 19.51
void excrement)	fireplace 7.31	fright 16.53
4.66	first 13.34	fruit 5.71
exist (9.91)	fish 3.65	full (adj.) 13.21
	fisherman 3.66	furniture 7.41
face 4.204	flame 1.82	furrow 8.212
faithful 16.65	flat (adj.) 12.71	fury 16.43
fall (vb.) 10.23	flax 6.23	
false (16.67)	flee 10.51	garden 8.13
family 2.82; 19.23	flesh 4.13	gate 7.22
far (adv.) 12.44	flour 5.55	gather 12.21
farmer 8.11	flow 10.32	general (sb.) 20.18

- get 11.16
 ghost 22.45
 girdle 6.57
 girl 2.26
 give 11.21
 give back 11.22
 glad 16.23
 glass 9.74
 glove 6.58
 go 10.47
 go away 10.49
 goat 3.36
 god 22.12
 gold 9.64
 good 16.71
 goose 3.56
 govern 19.31
 grain 8.42
 grandfather 2.46
 grandmother 2.47
 grandson 2.48
 grape 5.76
 grasp 11.14
 grass 8.51
 grave (sb.) 4.79
 green 5.68
 grief 16.32
 grind 5.56
 ground 1.212
 group (13.19)
 grow 12.53
 guilt 16.76
 hair 4.14
 half 13.24
 hammer (sb.) 9.49
 hand 4.33
 happen 9.99
 happy 16.24
 hard (vs. soft) 15.74
 harm (vb.) 11.28
 harvest (sb.) 8.41
 hasten 14.23
 hat 6.55
 hate (sb.) 16.41
 have 11.11
 hay 8.52
 haze 1.74
 head 4.2
 head 18.52
 heal 4.86
 health 4.83
 hear 15.41
 hearing (sb.) 15.43
 heart 4.44
 heaven 22.31
 heavy 15.81
 he-goat 3.37
 heir 11.48
 hell 22.32
 helmet 20.33
 help 19.58
 hen 3.51
 herdsman 3.18
 hide (sb.) 4.12
 hide (vb.) 12.27
 high 12.31
 hill 1.22
 hire (vb.) 11.77
 hoe 8.25
 hold 11.15
 hole 12.85
 hollow 12.72
 holy 22.19
 honey 5.84
 honor (sb.) 16.46
 hook 12.75
 horn 4.17
 horse 3.41
 hot 15.85
 hour 14.51
 house 7.12
 hunger (sb.) 5.14
 hunt 3.79
 husband 2.31
 hut 7.13
 ice 1.77
 idol 22.37
 ill (in health) (4.74)
 immediately 14.19
 incline (vb.) (9.14)
 income 11.71
 infant 2.28
 injure 11.28
 innocent 21.36

insane 17.23	labor (sb.) 9.12; (vb.) 9.13	lie (vb.) 12.14
insect 3.81	lake 1.33	lift 10.22
intelligence 17.12	lamb 3.29	light (adj.) 15.82
iron 9.67	lame 4.94	light (sb.) 1.61
island 1.25	lamp 7.45	light (vb.) 1.86
	land 1.21	lightning 1.55; 1.57
jealousy 16.44	language 18.24	like (adj.) 12.92
jewel 6.72	large 12.55	line 12.84
join 12.22	last (adj.) 13.35	linen 6.23
joy 16.22	last (vb.) 14.252	lion 3.72
joyful 16.23	laugh (vb.) 16.25	lip 4.25
judge (sb.) 21.18	law (general) 21.11	listen 15.42
judge (vb.) 21.16	law (special) 21.12	little 12.56; 13.17
judgement 21.17	lawsuit 21.13	live (= be alive) 4.74
jump (vb.) 10.43	lay 12.12	live (= reside) 7.11
just (16.73)	lead (sb.) 9.68	liver 4.45
	lead (vb.) 10.64	livestock 3.15
keep (= retain) 11.17	leaf 8.56	lock (sb.) 7.23
keep (= preserve, save) 11.24	lean (vb.) (9.14)	long 12.57
kettle 5.27	leap (vb.) 10.43	look (vb.) 15.52
kill 4.76	learn 17.24	lord (19.41)
kindle 1.86	lease 11.76	love 16.27
king 19.32	leather 6.29	low 12.32
kiss (vb.) 16.29	leave 12.18	mad (= insane) 17.23
knead 5.54	left 12.42	magic (sb.) 22.42
knee 4.36	leg 4.35	mainland 1.26
knife 9.23	let (= permit) 19.47	make 9.11
knot 9.192	let go 11.34	make water 4.65
know 17.17	letter (= epistle) 18.54	male 2.23
	lick (vb.) 4.59	male (of animals) 3.12
	lie (sb.) 16.67	

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|----------------------|-------------------------|-------------------|
| man (homō) 2.1 | months, names of | new 14.13 |
| man (vir) 2.21 | 14.72 | night 14.42 |
| many 13.15 | moon 1.53 | noble (sb.), |
| mare 3.44 | morning 14.44 | nobleman 19.36 |
| market (place) 11.85 | mortar (mason's) | noon 14.45 |
| marriage 2.34 | 9.55 | north 12.47 |
| marry 2.33 | mother 2.36 | nose 4.23 |
| may 9.95 | mountain 1.22 | now 14.18 |
| mason 9.53 | mouse 3.63 | number 13.12 |
| master 19.41 | mouth 4.24 | numerals, note on |
| mead 5.91 | move 10.11 | 13.31 |
| meal (= ground corn) | mow 8.32 | nut 5.77 |
| 5.55 | much 13.15 | |
| meal (= repast) 5.41 | mud 1.214 | oak 8.61 |
| measure (vb.) 12.54 | mule 3.47 | obey 19.46 |
| meat 5.61 | multitude 13.19 | obtain 11.16 |
| medicine 4.88 | murder 21.42 | offering 22.15 |
| meet 19.65 | must 9.94 | often 14.32 |
| merchant 11.84 | | oil 5.79 |
| middle 12.37 | nail (on finger or toe) | ointment 6.94 |
| might (4.81) | 4.39 | old 14.15 |
| milk 5.86 | nail (carpenter's) | olive 5.78 |
| mill 5.57 | 9.50 | omen 22.47 |
| mind (sb.) 17.11 | naked 4.99 | one 13.32 |
| minute (sb.) 14.52 | name 18.28 | onion 5.68 |
| misfortune 16.19 | napkin 6.83 | open (vb.) 12.24 |
| mist 1.74 | narrow 12.62 | order (vb.) 19.45 |
| mistake 16.77 | near (adv.) 12.43 | orphan 2.75 |
| mix 5.17 | necklace 6.75 | ought 9.94 |
| mold 9.72 | needle 6.36 | oven 5.25 |
| money 11.43 | nephew 2.53 | overcoat 6.412 |
| month 14.71 | never 14.34 | overtake 10.54 |

ox 3.22	place (sb.) 12.11	print 18.64
	place (vb.) 12.12	prison 21.39
pain 16.31	plain (sb.) 1.23	prisoner (of war)
paint (vb., as artist)	plain (adj., to	20.47
9.85	understand) 17.34	promise (vb.) 18.36
painting (sb.) 9.87	plaintiff 21.21	property 11.41
parents 2.37	plait 9.75	prostitute 19.72
part 13.23	plant (sb.) 8.53	proud 16.48
pasture (sb.) 3.17	plate 5.32	pull 9.33
pasture (vb.) 3.16	play (vb.) 16.26	punish (21.37)
path 10.72	please 16.21	punishment 21.37
pay (sb.) 11.78	pleasure (16.22)	purse 11.45
pay (vb.) 11.65	pledge (11.67)	pursue 10.53
pea 5.67	plot 19.63	push (vb.) 10.67
peace 20.14	plow 8.21	put 12.12
pear 5.73	point (sb. = sharp	
pen 18.57	end) 12.352	quarrel 19.62
penalty 21.37	poor 11.52	queen 19.33
penis 4.492	possess 11.12	question (18.31)
people (populace)	pot 5.26	quick 14.21
19.21	potato 5.7	quiet 12.19
perceive 15.11	potter 9.71	
perjury 21.47	pour 9.35	rage 16.43
permit 19.47	power (4.81)	rain 1.75
phantom 22.45	praise (sb.) 16.79	raise 10.22
physician 4.87	pray 22.17	raisin (5.76)
picture 9.87	pregnant 4.73	rake 8.27
pig 3.35	preserve 11.24	ram 3.26
pin 6.63	press (sb.) 9.342	rape (sb.) 21.44
piss 4.65	price 11.87	reason (=
pitcher, jug 5.34	priest 22.18	intelligence) 17.12
pity (sb.) 16.35	prince 19.35	

- reason (= cause)
 (17.42)
 reckoning 11.66
 red 15.66
 refuse (vb.) 18.37
 region 19.14
 relatives 2.81
 release 11.34
 remain 12.17
 remain (= stay) 12.16
 remain (= be left)
 12.17
 remember 17.31
 rent (vb.) 11.76
 rescue 11.25
 restore 11.23
 retain 11.17
 retreat (sb.) 20.45
 return (= give back)
 11.22
 revere (22.16)
 rib 4.162
 rich 11.51
 riches 11.42
 right (adj., vs. left)
 12.41
 right (adj., vs.
 wrong) 16.73
 ring (for finger) 6.73
 rise 10.21
 river 1.36
 road 10.71
 rock 1.44
 roof 7.28
 room (in a house)
 7.21
 root 8.54
 rope 9.19
 rough 15.76
 rub 9.31
 rudder 10.86
 rule 19.31
 run 10.46
 sacred 22.19
 sacrifice (sb.) 22.15
 sad 16.36
 sail (vb.) 10.36
 salt (sb.) 5.81
 same (12.91)
 save (= rescue) 11.25
 saw (sb.) 9.48
 say 18.22
 scatter (9.34)
 school 17.28
 scissors 9.24
 sculptor 9.82
 sea 1.32
 search for 11.31
 season (of the year)
 14.78; seasons
 14.74-14.77
 second (sb.) 14.52
 secret (adj.) 17.36
 security 11.67
 see 15.51
 seed 8.31
 seek 11.31
 seize 11.14
 sell 11.82
 send 10.63
 sense (perception)
 15.11
 separate (vb.) 12.23
 serpent 3.85
 servant 19.43
 set 12.12
 sew 6.35
 sexual intercourse,
 have 4.67
 shade 1.63
 shame 16.45
 shape (sb.) 12.51
 sharp 15.78
 sheep 3.25
 shield 20.34
 shine 15.56
 ship 10.81
 shirt 6.44
 shoe 6.51
 shoemaker 6.54
 shore 1.27
 short 12.59
 shoulder 4.3
 shout (vb.) 18.13
 shove (vb.) 10.67

shovel (sb.) 8.24	son 2.41	spring (sb., season) 14.75
show (vb.) 15.55	son-in-law 2.63	stable 3.19
shut (vb.) 12.25	soon 14.19	stall 3.19
sick 4.84	sorceress 22.43	stallion 3.42
sickle 8.33	sorcery 22.42	stand (vb.) 12.15
sickness 4.84	sorrow 16.32	star 1.54
side 12.36	soul 16.11	statue 9.83
sight 15.53	soup 5.64	stay (vb. intr.) 12.16
silent, be 18.23	sour 15.38	steal 11.56
silver 9.65	south 12.48	stepfather 2.71
similar 12.92	sow (female hog) 3.34	stepmother 2.72
sin (sb.) 16.75	sow (vb., sow seed) 8.31	stocking 6.49
sing 18.12	spade (sb.) 8.23	stomach 4.46
sister 2.45	speak 18.21	stone 1.44
sit 12.13	spear (sb.) 20.26	stop (= cease) 14.28
size 12.52	specter 22.45	stove 7.32
skin 4.12	spin 6.31	straight 12.73
skirt 6.46	spindle 6.32	stranger 19.55
skull 4.202	spirit 16.11	stream 1.36
sky 1.51	spirit (guardian spirit) 22.46	street 10.73
slave 19.42	spit (vb.) 4.56	strength (4.81)
sleep 4.61	split 9.27	stretch 9.32
small 12.56	spoil (vb.) 11.29	strew 9.34
smile (vb.) 16.25	spoil (sb.) 20.48	strife 19.62
smith 9.6	spoon 5.37	strike 9.21
smoke (sb.) 1.83	spread 9.34	string (9.19)
smooth 15.77	spring (sb., of water) 1.37	strong 4.81
snake 3.85		stupid 17.22
soap 6.95		subject 19.38
soft 15.75		suck 5.16
soil (sb.) 1.212		suffer (16.31)
soldier 20.17		

- suffering 16.31
 sugar 5.85
 summer 14.76
 summit (12.33)
 summon (18.41)
 sun 1.52
 surety 11.67
 surrender (vb.) 20.46
 swear (take oath)
 21.24
 sweat (sb.) 4.55
 sweep 9.37
 sweet 15.35
 swift 14.21
 swine 3.31
 sword 20.27

 table 7.44
 tablet (for writing)
 18.55
 tail 4.18
 tailor 6.13
 take 11.13
 take hold of 11.14
 talk (vb.) 18.21
 taste 15.31
 tax (sb.) 11.69
 teach 17.25
 tear (sb.) 16.38
 tear (vb.) 9.28
 temple 22.13
 tent 7.14

 territory 19.14
 testicle 4.49
 theft 21.45
 thick (in density)
 12.64
 thief 11.57
 thin (in dimension)
 12.65
 thin (in density)
 12.66
 thing 9.90
 think¹ (= reflect)
 17.13
 think² (= be of the
 opinion) 17.15
 third (ordinal) 13.42
 thirst (sb.) 5.15
 thread 6.38
 three 13.41
 three times 13.44
 thresh 8.34
 threshing-floor 8.35
 throat 4.29
 throne 7.43
 throw 10.25
 thunder 1.56
 tie (vb.) (9.16)
 till (vb.) (8.15)
 time 14.11
 tin 9.69
 tired 4.91
 today 14.47

 toe 4.38
 toil (sb.) 9.12; (vb.)
 9.13
 tomorrow 14.48
 tongue 4.26
 tool 9.422
 tooth 4.27
 top 12.33
 touch (vb.) 15.71
 towel 6.82
 tower 20.36
 town 19.15
 trade (vb.) 11.83
 tree 1.42; 8.60
 tribe 19.23
 try (= attempt,
 endeavor) 9.99
 turn 10.12
 turn round 10.13

 ugly (in appearance)
 16.82
 understand 17.16
 unite 12.22
 urine, urinate 4.65

 valley 1.24
 value (11.87)
 vegetables 5.65
 veil 6.59
 vessel (10.81)
 victory 20.41

village 19.16	weep 16.37	witch 22.43
vine 8.67	well (sb.) 1.37	witchcraft 22.42
vinegar 5.83	well (adj.) 4.83	witness (sb.) 21.23
	west 12.46	wolf 3.71
wages 11.78	wet 15.83	woman 2.22
wagon 10.75	wether 3.27	womb 4.47
wait 12.16	wheat 8.43	wood 1.43
wake 4.63	wheel 10.76	woods 1.41
walk (vb.) 10.45	white 15.64	wool 6.22
wall 7.26	whole 13.13	word 18.26
want (vb., wish)	wide 12.61	work (sb.) 9.12; (vb.)
(16.61)	widow 2.76	9.13
war 20.13	wife 2.32	world 1.1
warm 15.85	will (vb.) 16.61	worm 3.84
wash 9.36	win (= be victorious)	worship (vb.) 22.16
watch (vb.) (11.24;	(20.41)	wrap 10.14
15.52)	wind (sb.) 1.72	write 18.51
water 1.31	wind (vb.) 10.14	wrong 16.74
wave (sb., on water)	window 7.25	
1.35	wine 5.92	yard 7.15
way (road) 10.71	wing 4.392	year 14.73
weak 4.82	winter 14.74	yellow 15.69
wealth 11.42	wisdom (17.21)	yesterday 14.49
weapons 20.21	wise 17.21	yoke 10.78
weave 6.33	wish (vb.) 16.61	young 14.14