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## Appendix C: Index to Semitic Terms in Alphabetical Order of Hebrew Consonants after Pronouns and Grammatical Morphemes

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## Appendix C: Index to Semitic Terms in Alphabetical Order of Hebrew Consonants after Pronouns and Grammatical Morphemes (ʾ b g d h w z \*d̥ ḥ \*x ṭ y k l m n s ʕ \*ḡ p ʂ q r ś š ṭ)

ʾanaa 'I' (Arabic); Aramaic ʾanaa(?) 'I'; Syriac ʾinaa / naa 'I' > Uto-Aztecan \*ni 'I' (102)  
 -i 'my' > Hopi i- 'my' (101)  
 -ni 'me' (object suffix) > UA -ni 'me' (object suffix) (103)  
 -ai / -ay 'me, my' (possessive pronoun suffixed to pl nouns), also as in my-verbing > Sr -ai 'I'm (verbing)' (1423)  
 -ka/-ki 'you/your, sg' > ʾi 'you/your, sg' (104-kw)  
 -kem 'you/your, pl' > ʾim 'you/your, pl' (105-kw)  
 Aramaic -tum 'you, pl subject' > UA tumu 'you, pl subject' (106-p)  
 hu / huwa 'he, it, acts as connecting copula verb between nouns' > UA hu / huwa 'he, that' (107)  
 hu / huwa 'he, it, acts as connecting copula verb between nouns' > UA hu 'be/is' (108)  
 -w 'his/its' > UA \*-wa 'possessive suffix' (906)  
 hum / hem 'they' > UA \*(h)imī / umī 'they' (109)  
 -am 'them, their' (object or possessor suffix) > UA \*-am 'them, their (object or possessor suffix)' (110)  
 plural: -iima 'early NW-Semitic pl suffix' > UA \*-ima (1)  
 plural: -ooteeʿ 'Hebrew feminine plural suffix' > UA -tī 'plural suffix' (904)  
 plural: -aayaa 'Aramaic definite masc plural suffix' > -ya 'plural suffix' (1417)  
 dual: -ayim / -aym 'dual suffix' > NU and WMU -im/-yīm/-əyəm 'dual suffix' (905)  
 na- 'early NW-Semitic passive/reciprocal prefix' > UA \*na- 'reciprocal/reflexive prefix' (2)  
 na- 'early NW-Semitic passive/reciprocal prefix' > UA \*na- 'twice, double' (1287)  
 ha- 'interrogative particle prefix in a yes-no question' > UA \*ha- 'interrogative particle' (609)  
 -t-aa 'the' (Aramaic f., drops when poss'd) > UA \*-ta 'absolute suffix (drops when poss'd) (1273-p)  
 -a 'accusative suffix' > UA \*-a 'accusative suffix' (1286)  
 -i / -iya 'one from a place or people, m / f' > UA \*-i / \*-ya 'person from' (1288)

### ʾ (ʾaleph / glottal stop)

ʾaab 'father', pl: ʾaaboot, poss'd: ʾaaboteeʿ 'fathers' > UA \*apu / \*(h)apu(ti) 'father, parent, mother' (588-kw)  
 ʾaaboteeʿ 'fathers (of)' > UA \*poci 'paternal grandfather' (590-p)  
 ʾbd 'be wild, untamed, shy, run away' > UA/Tep \*ʾībūda-i 'be afraid' (1458-kw)  
 ʾébeh 'reed, papyrus'; Akkadian abu / apu 'reed, papyrus' > UA \*wapi 'foxtail' (1136-p)  
 ʾabaal 'truly, indeed' (later it means: but, however) > Tr abe 'yes, an emphatic' (1225-kw)  
 ʾabneṭ, pl: ʾabneṭ-iim 'sash, girdle' > UA \*natti 'belt' (592-kw)  
 ʾeebaar-aa / ʾeebr-aa 'limb, arm, wing, pinion, male member' > UA \*pīra 'arm, right arm' (729-kw)  
 ʾeebaar-aa / ʾeebr-aa 'limb, arm, wing, pinion, male member' > UA \*wiʾaC 'penis' (794-p)  
 ʾe(N)gooz 'nut tree' > UA \*wokoN / \*wo(N)koC 'pine tree' (569-p)  
 ʾgl 'to hesitate, wait, linger' > Tb wiihī ~ iiwihī 'to wait' (1332-p)  
 ʾagap 'wing, pinion, arm, shoulder' > UA \*wakapu 'wing, feather' (926-p)  
 ʾagap 'wing, pinion, arm, shoulder' > UA \*aṇapu 'wing, arm' (925-kw)  
 ʾgr / ʾagar 'to hire, harvest' > Tb waahay' 'work' (1365-p)  
 ʾadaam 'man' > UA \*otami 'man, person' (76)  
 ʾdm 'be red'; ʾadom 'reddish-(brown), tawny' > UA \*oNtam / \*o(N)ta(N/C) 'brown' (77)  
 ʾadaamaa / ʾdaamaa 'earth' > UA \*tīma 'earth' (591-kw)  
 ʾzy / ʾdy, ʾiidaa 'harm, damage, hurt' > UA \*ʾica(C) '(have) wound/sore' (1388-kw)  
 ʾah (< \*ʾax) 'brother'; Aramaic ʾah-aa 'brother-the' > UA \*waṇaʾa 'younger brother' (880-p)  
 ʾahoot (< \*ʾaxoot) 'sister' > UA \*koʾti / \*koʾci 'older sister' (594-kw or p?)  
 ʾaxaat-aa 'sister-the' > UA \*wakati 'younger sister' (595-p)  
 ʾahad 'one', pl: ʾahadiim / ʾahadee 'a few/some (of)' > Tr ahare / ohare / wahare 'some, certain ones, others' (1335-p)  
 ʾh̄z / ʾah̄az (< ʾxd) 'take, grasp' > UA \*uNwa 'take, carry' (834-kw)  
 ʾh̄z / ʾah̄az (< ʾxd), impfv yoohez (< \*yaʾh̄iz) 'take, grasp' > UA \*yawī / yaʾwī / yaṇwī 'take, carry' (835-kw or p?)  
 ʾh̄h 'cough' > UA \*ohoho 'cough' (661)  
 ʾaxar 'behind, after'; \*ʾaxer 'other/another' > UA \*wakay/waxay 'two, after' (570-p)  
 ʾah̄areʿ / ʾaahoor 'back, behind' > UA \*(a)hoyi 'back, follow, return' (643-kw)  
 maah̄aar 'next day, tomorrow' (< \*maʾxar) > UA mawa, moosta, muuʾa, mowahusu 'tomorrow' (1022-p)  
 ʾaykaa 'where' > UA \*haka 'where' (1190)  
 ʾay + be 'where-at/in it?' > Ktn hayp(ea) 'where?' (1371)  
 ʾay + mi 'which who?' > Ktn hami(c) 'who?' (1370)  
 ʾayil / ʾeel- 'mighty tree'; ʾeelaʾ 'oak, terebinth' > UA \*iyal 'poison oak' (599-kw)  
 ʾayil 'mighty tree, oak' > UA \*wiʾa(N) / \*wiya(N) 'acorn, oak' (1337-p)

'aynaa 'who, what, m'; Syriac 'aydaa 'who? what? f' (< \*'ayn-taa) > UA \*haynta 'what' (1192)  
 'ak 'surely, entirely, yet, but, only' > CN ok 'still, yet, for now, first, in addition' (1328)  
 'aakal, \*to'kal 'she/it eats' > UA \*tikkaC 'eat' (796-p)  
 'aakal, \*yo'kal 'he/it eats' > UA \*yi'iki 'swallow' (797-kw)  
 'aakal 'eat/he ate' > UA \*aki 'open mouth, eat, take/put into one's mouth' (798-kw)  
 'aakal 'eat/he ate', inf: 'əkol 'eat' > UA \*ukol 'want' (1177-p probably)  
 'aakal 'eat/he ate', Syriac 'akl-aa 'weevil, eater-the' > UA \*akal 'moth, butterfly' (1178)  
 'aakal 'eat/he ate', Syriac 'akl-aa 'weevil, eater-the' > UA \*pi'akī 'caterpillar, worm' (1179-kw)  
 'akamat 'hill, reef, heap, pile' > UA \*wikka 'pile' (1118-p)  
 'kr / 'akara 'till (the ground)'; 'ikkaar 'agricultural worker' > UA \*wika 'digging stick' (1331-p)  
 'alima 'to experience grief', 'almaanaa 'widow' > UA \*o'mana 'sad, suffering' (1144)  
 'lp 'to learn, be familiar/acquainted, tame' > TO oiop 'to be around, to stay around a place (of animals)' (1330)  
 'em 'mother', 'imm-aa 'mother-her'; 'imm-o 'mother-his' > Tb iimīi- 'mother' (1346-kw)  
 'aamaqqət-aa 'lizard-the' > UA \*makkaCta(Nka)-ci 'horned toad' (1055)  
 'iis 'man, person' (with negatives 'no one') > UA \*wisi 'person' (572-p)  
 'iis 'man, person' > Ca -iš 'person who does (the verb)' (573-kw)  
 'išaa / 'išt- 'woman, wife of' > Hp wīiti / wihti 'woman, wife' (574-p)  
 'ešet 'woman' > \*wa'iC-pī 'woman' (1436-p)  
 'mn / ya'amiin 'he believes'; ya'amiin-o 'he believes him/it' > UA \*yawamin-(o) 'believe (him/it)' (567-p)  
 'mn / hē'eman 'he believed' > Ca hēe'an 'believe s.o., agree on s.th.' (568)  
 'mr / 'aamar, impfv: yoomar / yoomer 'say' > UA \*umay / \*may 'say' (66)  
 'aas-aa' 'myrtle willow-the' > UA \*wasV 'willow' (577-p)  
 'sp / hi'asep 'be gathered (to one's people), die, be put in family cemetery' > UA \*hi'acapa 'bury, cover, grave' (895)  
 'sp / impfv: -'sop 'gather, collect, gather in (legs)' > UA \*cupa 'gather, close eyes' (897)  
 'ap '(denotes addition) also, yea, even' > TO ep 'again, also, too, another one, somebody else' (1329-kw)  
 'epod-aa 'ephod-the, priestly garment, shoulder cape or mantle' > UA \*wipura 'belt' (583-p)  
 'pd 'to put on an 'epod' > Tr opata 'put on a shirt' (585)  
 'pl / tu'pal 'get dark, (sun, planet) go down' > UA \*cuppa 'fire go out, get dark' (871)  
 'pl / yu'pal 'get dark, (sun, planet) go down' > UA \*yuppa 'fire go out, get dark, black' (872)  
 'pl / yu'pal 'get dark, (sun, planet) go down' > UA \*yu'wal 'night, get dark' (873)  
 'pl / yu'pal 'get dark, (sun, planet) go down' > UA \*yu'pala 'go down, stoop' (874)  
 'argaamaan 'purple, red-purple'; Akkadian argamannu 'purple' > UA/Num \*aNkaC 'red' (587-kw)  
 'ard-aa' 'mushroom-the' > UA/Num \*hitto'oC / \*witto'oC 'mushroom' (1110-kw?)  
 'arz-aa' 'cedar-the' > UA \*wa'aC 'juniper / cedar tree' (582-p)  
 'rḥ 'be on the road, wander'; Hebrew 'oraḥ 'way, path' (Akkadian urxu) > Ch 'uru<sup>w</sup>a- 'travel, go, walk' (1440-kw)  
 'ariy / 'arii 'lion' > UA \*wari 'mountain lion' (566-p)  
 'rk 'be long (time or space/length)' > UA wīiyak 'long' (1486-p)  
 'arnébet; Akkadian 'arnabu; Arabic 'arnab 'hare, rabbit' > UA \*wanna / \*wa'na 'rabbit net' (596-p)  
 'arnébet; pl: \*<sup>a</sup>rnaboot 'hare, rabbit' > UA \*taput 'rabbit' (597-kw)  
 'arnébet; pl: \*<sup>a</sup>rnaboot 'hare, rabbit' > UA \*topi 'rabbit' (598-kw)  
 'arš-aa 'earth-ward, to the earth' > UA \*wicī, NUA \*wīyī, Num \*wī'ī (581-p)  
 'arqə-taa / 'arqə-taa 'flake worm, parasite worm' > UA/Num \*wo'a 'worm' (1224)  
 'ašer 'which, relative pronoun' > Tb aš 'same subject subordinator, when, to, how to, in order to' (1343)  
 bə-'ašer = Syriac b-'atar / baatar 'after, following' > UA beasi 'behind, beside, on other side of' (1400-p)  
 'istwaawr-aa / 'istawr-aa 'ankle, a portion of the lower leg' > UA \*wiCtaC 'calf of leg, lower leg' (1084-p)  
 'ootii 'me' (object/accusative pronoun) > Tr ti 'me' (1497)  
 'ty / 'aataa<sup>y</sup> / 'atii- 'come' > UA \*wiic 'come' (576-p)  
 'atar 'place'; Aramic 'atar d- 'place where, wherever, where' > UA \*tīri / \*tiri 'place where' (1191)

## B

baa 'in/at it/her (feminine) > UA \*pa 'in/at' (848-p); Aramaic be 'in/at him/it (masculine) > UA \*pi 'in/at' (849-p)  
 be 'with it, in it, by means of it' > UA \*-pa 'instrumental suffix' (1384-p)  
 bə'or 'pit, cistern, well' > UA \*kwi'oC-ki 'be hollow and round' (41-kw)  
 bgd 'deceive, hide'; béged / baaged 'garment, clothing' > UA \*pakī / paki 'enter, put on (clothing)' (530-p)  
 béged / baaged 'garment, clothing' > UA \*pakati > \*pakī / paki 'shirt' (529-p)  
 bd' 'invent, devise, lie, loose talk' pl: bad'uu > UA \*paru 'bad, say bad about' (544-p)  
 bd' 'invent, devise, lie, loose talk' > UA \*beewa 'non-sense, gibberish' (548-p)  
 bad'a 'start' > UA \*pīwa 'start' (545-p)  
 bd' 'begin, start'; bada'a 'start(ed), began' > Ktn puycu 'begin' (547-p)

bad ‘part, alone, except’ > UA \*parī / pirī ‘one, no’ (538-p)  
 bdl ‘divide, substitute, change, exchange’ > UA \*pata ‘change, exchange’ (539-p)  
 bdl ‘divide, separate’; \*hibbadel ‘be separated’; batala/battala ‘separate’ > UA \*kwatta ‘open’ (34-kw)  
 bdṣ ‘start, do for the first time’; bidṣ-V ‘new, unprecedented’ > UA \*pitiC / \*pituC / \*pituwa ‘new’ (546-p)  
 bdr ‘scatter, put in disorder, shed’ > kwīri- ‘get in a heap, collapse to a disordered pile, fall to disarray’ (42-kw)  
 bahiya ‘empty, vie, compete’ > Hp kwahi / kwàyya ‘suffer loss’; kwaha- ‘deprive of, take at expense of’ (38-kw)  
 bhl ‘cease, become quiet, tranquil, calm, gentle’ > \*kwaha ‘1. tamed, 2. peaceful, tranquil, gentle’ (39-kw)  
 bahamat ‘back, hill, high place’ > UA \*kwahama ‘back’ (7-kw)  
 bw’ / boo’ ‘coming, way’ > UA \*poo’ ‘road, path’ (531-p)  
 bw’, hiqtil: hebi/’hebaa’ ‘bring’ > UA \*hī’ipī / \*hapa ‘get up, vi; lift/pick up, vt’ (805-p)  
 bw’, hiqtil: hebi/’hebaa’ ‘bring’ > UA \*hakwa / \*hakwi ‘lift’ (806-kw)  
 bwṣ / buuṣ, pfv: baaṣ ‘be white’ > UA \*kwaca / NUA \*kwaya ‘white’ (48-kw)  
 bwṣ / buuṣ ‘be white’ > UA \*pos ‘white’ (558-p)  
 baaz ‘falcon’, baaz-aa ‘falcon-the’ > UA \*kwasa / \*kwisa ‘eagle’ (15-kw)  
 baazaaq ‘flash of lightning’ > UA \*kwisaka or \*kwici’i ‘lightning’ (14-kw)  
 Arabic baḍara ‘sow’; Arabic baḍr- ‘seed(s)’ > \*paCci / \*pa’ci ‘seed’ (554-p)  
 Arabic baḍr- ‘seed, seeds’, pl: buḍuur ‘seeds, pit, stone (of fruit)’ > UA \*puci ‘seed, pit’ (555-p)  
 bḥn, \*-baḥḥen ‘observe, examine, pull out organs to examine’ > UA \*po’na ‘pull out, uproot’ (1513-p)  
 baḥr- ‘sea, large river, water (vs. land)’ > UA \*paC (pharyngeal -C) / \*pa’wi ‘water’ (1165-p)  
 baḥuuraa (< baxuuraa / bxr) ‘young woman’ > Num kwihī ‘wife’ (43-kw)  
 bxr (> bḥr) ‘test, choose, be/make choice’; Amorite bexeru ‘elite soldier’ > UA \*biḥiri ‘expensive, opponent’ (1399-p)  
 bwhšyn(’) ‘green herbs’ > UA \*puhiC ‘green’ (870-p)  
 bṭḥ / -bṭaḥ ‘trust’ > UA \*cawa ‘believe’ (542-p)  
 biṭḥa(t) ‘trusting’; \*baṭiḥ ‘trusted’ > UA \*pitiwa ‘believe, be true/real, trustable’ (540-p)  
 baaṭuuḥ ‘trusting, trustful, confident’ > UA/Num \*puttuttugwa ‘know’ (543-p)  
 baaṭuuḥ ‘trusting, trustful, confident’ > UA/Tep \*paso ‘true, believe, true’ (541-p)  
 bṭn ‘be pregnant, paunchy’ / \*buṭṭan > UA \*putta ‘pregnant, full’ (552-p)  
 -bbiit ‘look’ (< \*-nbiit) > UA \*pici / \*pica ‘look, see’ (562-p)  
 byn / -biin ‘understand’ > UA \*pini ‘learn, become familiar with’ (811-p)  
 bayin / been ‘between’; Arabic bayna ‘between, among’; Syriac baynay > UA \*pina ‘with, unite/go with friend’ (1397-p)  
 bayin / been ‘between’; Arabic bayna ‘between, among’; Syriac baynay > UA \*kwan ‘with’ (1270-kw)  
 bayṣa(t) / beesā(t) ‘egg’; Arabic bayḍat- ‘egg, testicle’, pl: beesoot > UA \*piyso ‘testicle’ (556-p)  
 byt ‘to lodge, pass/spend the night’ > UA \*piCti / \*pitu ‘lie down, spend the night, pl’; PYp veetu ‘lie, pl’ (528-p)  
 bayit / beet ‘house’ > Tr bete ‘house’ (528-p)  
 bayt-aa ‘house-toward, inside-to’ > UA \*paca ‘put in’ (1238-p)  
 bky / bakaa<sup>y</sup> ‘cry, weep’ > UA \*kwiki / o’ki ‘(shed) tears’ (24-kw)  
 bky / bakaa<sup>y</sup> ‘cry, weep’ > UA \*kwaki ‘baby’ (25-kw)  
 bky / Syriac pfv: bakaa / baka<sup>y</sup> > UA \*paka<sup>y</sup> ‘cry, v’ (559-p)  
 bky / impfv masc: \*ya-bka<sup>y</sup> ‘he/it weeps, cries’ > UA \*yaCkaC / \*yakka ‘to cry, sg’ (560-p)  
 bky / impfv fem: \*ta-bka<sup>y</sup> ‘she/it weeps, cries’ > UA \*takka (> NP taka) ‘to cry’ (561-p)  
 bakara ‘set out early’ > UA \*pakay(N) / \*pakiN ‘walk (away)’ (1232-p)  
 bkt ‘to weave’ > UA \*kwiCta ‘braid, wind around’ (1445-kw)  
 blg / baliga ‘shine, be happy/glad’ > UA \*bale ‘enjoy, rejoice’ (549-p)  
 blm ‘silence, muzzle, wrap, restrain’; baalm-aa ‘halter’ > UA \*kwalma ‘put arm around, carry under arm’ (16-kw)  
 bll moisten, mix’ > UA \*kwallV ‘soft(en), stir’, Num -nn-, SP -n’n- (22-kw)  
 biltii ‘worm sp’ > UA \*kwici ‘worm’ (23-kw)  
 blṭ / ballet, impfv yV-ballet ‘be worm-eaten, moth-eaten, rot’ > UA \*yipali ‘rotten’ (1142)  
 balas ‘kind of fig’ > UA \*palasi ‘(wild) grapes’ (537-p)  
 blṣ / baalaṣ / baliṣa / belu ‘swallow’ > UA \*kwiluC ‘swallow’ (6-kw)  
 blṣ ‘to bud, blossom’ > Ca ḥe-kwála’an ‘open (eyes or mouth)’ (1020-kw)  
 bōnee<sup>y</sup> ‘sons/children (of)’ > Aztec \*konee ‘child, offspring’ (26-kw)  
 ben ‘son’, pl: bōnee(y) ‘sons / children’ > UA \*poni ‘younger brother’ (1050-p)  
 buundəq-aa ‘ball, globule, sphere-the’ > SP potto ‘round, spherical’ (1374-p)  
 buundəq-aa ‘ball, globule, sphere-the’ > UA \*kwinu ‘round, spherical’ (1375-kw)  
 báṣad ‘behind, through, round about, for’ > Tr bo’ó / ko’ó ‘from/at/on the other side of’ (1394)  
 bṣy / baṣaa<sup>1</sup> ‘enquire, search’; Arabic bḡy ‘search’ > UA \*kwawa/i ‘invite, call’ (36-kw)  
 bṣy / baṣaa<sup>2</sup> ‘bring to a boil, bulge out’; Arabic bḡw ‘swell up’ > UA \*kwawa ‘boil, come to a boil’ (37-kw)  
 bṣq ‘to swell’ > UA \*posa ‘swell’ (553-p)

bšr 'look, see'; Arabic baaširat 'eye' = unattested \*boošer(et) 'eye' > UA \*pusi 'eye', Num \*pu'i (532-p)  
 bšr 'look, see'; baššara 'open eyes' > UA \*pusaC 'wake up, open eyes' (533-p)  
 biššar 'make inaccessible' > UA \*kwi'ay / \*kwi'aC 'surround, fence' (33, 32-kw)  
 baqīya 'stay, be left behind' > Hp kwayŋya- 'behind' (954-kw)  
 biqšaa 'cut, notch, valley, plain' > UA \*pakowa 'river, current' (1351-p)  
 bqr 'split, penetrate' > UA \*pukul 'pin on, poke' (536-p)  
 bəquraa 'livestock' > UA \*puNku 'domestic animal' (535-p)  
 boqer 'morning', bəqar-iim 'mornings' > UA \*pi'ari 'tomorrow' (875-p)  
 bar kəbaan-(aa) 'belt', kbn 'gird' > UA \*pakkaC 'belt' (1446-p)  
 br / -bra'- 'eat' > UA \*kwa'a 'swallow, eat' (46-kw)  
 brii(/y) 'provide food, feed' > UA \*kwi 'food, feed, give food' (47-kw)  
 brd 'be cold, to hail', barad/baaraad 'hail, n' > UA/Tr \*bara- 'be cool, time of rains' (1496-p)  
 brh 'flee, slip away, pass through, glide past' > My bóroh-te 'tiene diarrea' (1401-p)  
 brk 'kneel down, bless, praise, adore' > Ca kwéy'eqi 'stoop down' (1259-kw)  
 birkaa 'blessing, praise' (often sung) > UA \*kwika 'sing, song' (35-kw)  
 brm 'be consumed, worn out, tired, bored' > UA \*kwiyam 'be lazy, do lackadaisically' (27-kw)  
 baraq 'lightning' > UA \*pirok 'lightning' / My berok- 'lightning' (527-p)  
 brr 'select, choose' > UA \*kwiya / kwayi 'keep, take, choose' (20-kw)  
 barr 'land' > UA \*kwiya / kwira 'earth' (19-kw)  
 báášaar 'flesh, penis' > UA \*kwasi 'tail, penis, flesh' (5-kw)  
 Aramaic bəšár 'flesh' > UA \*pisa 'penis' (550-p)  
 bšr 'be sweet, glad, delight (in)' > \*pisa 'to like' (551-p)  
 baašel 'boiled, ripe' > UA \*kwašC 'cook, boil, ripe(n)' (4-kw)  
 hibbašel 'be ripened, that which is ripened' (niqtal infinitive) > UA \*ikwasi 'fruit, prickly pear' (1454-kw)  
 batt 'daughter' > UA \*patti 'daughter' (534-p)

## G

g'l 'redeem, buy back' > UA \*kowa 'buy' (1200-p)  
 gab 'back, convex, curved, gibbous' > Ls ŋavá-ŋva-š 'stooped, as an old man' (910-kw)  
 gab 'back, convex, curved, gibbous' > SUA \*kakwa / \*kappa 'egg' (1075)  
 gebiim 'locust' > UA kīipi: SP qīivi 'grasshopper' (68)  
 goob / gobay 'locust' > Eu okoboi 'grasshopper'; Kw haakapayni- 'grasshopper' (69)  
 gobah 'height (of man), Arabic gabhat 'forehead' > UA \*kopa 'forehead' (1099)  
 gabal 'to forge'; Arabic \*gabala 'to form, shape' > UA/Tak \*ŋapaC 'sharp(en)' (908-kw)  
 gbl 'form a boundary', gabal / gabuul 'mountain, boundary' > TO kavul 'hill', TO gavul-k 'be different, separate' (995)  
 gabal 'mountain(s)' > UA/Num \*kaipa / \*kaapa 'mountain' (1241)  
 gbr / -gbar 'be strong,prevail' > UA \*kwaC- 'win' (49-kw)  
 gabbaar 'man, strong/mighty man' > UA \*appaC- 'boy' (978-p)  
 gbr 'be strong', gəbuuraa 'strength' > UA \*gupuka 'strong, strength' (1172)  
 gabr-aa, pl: gabr-iim/iin 'great man' > UA \*kiri 'man, old man, elder' (1180)  
 gdl 'plait, weave, twist' > NUA ŋáaray-ni 's.th. crocheted or woven'; ŋáároyta 'spider web' (924-kw)  
 gdl 'wax / grow big'; mugdal 'big' > UA \*mukaC-: Ls muká-t 'big, large' (1492-kw)  
 gdš 'hew down, hew off' > UA \*katu 'cut, wound' (608-p)  
 gadiir 'walled place', \*ya-gdiir 'cause a wall to go up' > UA \*yaŋi 'fence, enclosure, roofless wall(s)' (916-kw)  
 gadiiš 'heap of sheaves'; Syriac gdš 'heap up' > UA \*ŋattas 'tight(en)' (911-kw)  
 ghh 'be cured, healed, freed, bend' > Sr ŋöhāäh 'go around a bend'; Hp ŋaaha 'untie', Hp ŋahi 'remedy' (909-kw)  
 gawza / gauza(t) 'nut' > UA \*kusi 'oak' (1115)  
 gwš / gaawaš 'pass away, perish' > Ktn ŋihw-ik 'get worn out' (928-kw)  
 gwr 'to travel away from home, sojourn' > UA \*ŋoya 'leave, go away, go home' (932-kw)  
 gwr / \*ya-gayyar 'to commit adultery' > Hopi yonyyāy-ti 'be adulterous, have an affair (with)' (933-kw)  
 guuryə-taa / guur-taa 'cub (female), young of animal (usually lion or dog) > UA \*koCti 'dog' (1025)  
 gaz 'bird of prey', gaz-aa 'falcoln-the' > UA/Tak/Tb \*'asa-wir 'eagle' (981)  
 gy' / -gii' 'come' > UA \*ki 'come' (1498-p)  
 gyl 'do circles, dance, rejoice' > Cp ŋáyl'a 'spin, twirl' (929-kw)  
 glb 'shear, shave' > Ca ŋep 'scrub, scrape, vt'; Ca ŋepel 'scrub, vt' (1475-kw)  
 geled 'skin' > Tep \*'ilida 'skin' (973)  
 gly / -galley 'uncover (nakedness), sleep with (woman)' > Sr ŋalyaŋalyah-kin 'make loose' (1521-kw)  
 gll 'roll, circulate', galiilaa 'what surrounds, circuit' > ŋililī / ŋilil 'circle around, be all around' (930-kw)  
 gullaa / gullat- 'basin, bowl, ball' > Hopi ŋöla 'hoop, ring, wheel' (931-kw)

gullaa / gullat- ‘basin, bowl, ball’ > SUA \*ola ‘ball’ (984)  
 glm ‘wrap up, fold, fold together’ > UA \*kolom ‘cover’ (934)  
 glm ‘wrap up, fold, fold together’ > UA \*ɲalam ‘entangle, fasten’ (935-kw)  
 góme ‘papyrus’ > UA \*oma ‘reed’ (1137)  
 gml ‘complete, beautiful, to fit’ > UA \*gamea / ‘quit, look good, be proper, fit’ (936-p)  
 gml ‘complete, beautiful, adorn, to fit’ > UA \*kīma ‘put on, wear, wrap, blanket, garment’ (937-p)  
 gml ‘complete, do to completeness/fully’ > Hp ɲīman- ‘to grind fine (939-kw)  
 gml, impfv: -gmol ‘to complete, ripen, wean’ > UA \*mo(y) ‘ripen’ (1175)  
 gnb / ganba ‘side, beside, near’ > UA ɲakwa ‘side, by, near’ (21-kw)  
 gnn ‘enclose, surround, protect’, pftv: ganno- > Hp ɲōn-ta ‘wear s.th. around the neck’ (915-kw)  
 gɲl ‘make, put, place, lay’ > Ls ɲáw’la-š ‘mattress, mat, bed’ (917-kw)  
 grm ‘gnaw, break/crush (bones)’, inf: garom > Hp ɲaro- ‘crunch down on’;  
 SP qayu ‘grind up (like a dog crushing bones) (921-kw)  
 gəraamaa-w ‘bones-his’ > UA/Hp \*ɲya(m) ‘clan, relative’ (950-kw)  
 gaaroon ‘throat, neck’ > UA/SNum \*iyōN ‘back of neck, nape of neck’ (999-kw)  
 gaaroon ‘throat, neck’ > UA \*karu ‘sandhill crane’ (1360-p)  
 grr ‘to ruminate, to saw, to drag’ > UA/Tak \*ɲaya ‘to move side to side, do side to side circular motion’ (914-kw)  
 gursiptu ‘butterfly’ > UA \*asiNpu(tonki) ‘butterfly’ (1057)  
 grš ‘drive out’ > Hp ɲōy-ta ‘pursuing, chasing after’ (920-kw)  
 gšh / gaššah ‘rub / graze the skin, scratch’ > UA \*ɲaska ‘be rough, scratch’ (1487-kw)  
 gšš ‘touch’; Arabic \*gassa ‘touch, feel’ > UA \*ɲisi ‘touch, feel cautiously’ (907-kw)

## D

\*dobboot / \*dobbootee<sup>y</sup> ‘bears, f pl’ > UA \*posi ‘bear’ (613-p)  
 dabber (< \*-dabbir) ‘speak’ > UA \*tikwi ‘say’ (11-kw)  
 yə-dabber ‘he speaks’ > UA \*yikwi ‘say’ (12-kw)  
 dubr / dubur ‘rump, back(side), buttocks’ > UA \*tupur ‘hip, buttocks’ (606-p)  
 dbr ‘turn one’s back’; dubr / dubur ‘rump, back(side), buttocks’ > Ktn tihpi-c ‘loin, back’ (1372-kw?)  
 dober ‘pasture, vegetation’ > UA \*tupi ‘grass, vegetation’ (607)  
 daabaar ‘speech, word > thing, matter’; Hebrew haddaabaar ‘the thing, the word’ > UA \*(hi)-tapi(ri) ‘thing’ (610)  
 dbr ‘speak’; daabaar ‘speech, word, discourse, saying, report, tidings’ > UA \*tapay(a) / tapiya ‘speak’ (611)  
 dabbar ‘lead, drive, take, drive away’ > UA \*tappi ‘pull, drag’ (1121-p)  
 degeɭ ‘standard, banner’; digl-aa ‘carrying pole’ > Wr tekela ‘stripe, hat band, pole at bottom edge of roof’ (70)  
 dwy / dawaya / daawe / daawaa ‘be miserable, faint, sick’ > UA \*tiwoya / \*ti’oy / \*ti’mo ‘sick(ness)’ (1284)  
 dwy ‘sick’; madwe / madveh ‘menstrual blood flow’ > Ktn miyvi ‘menstruate’ (1285)  
 dwy ‘sick’; madwe / madveh ‘menstrual blood flow’; \*hammadwe > UA \*hiNtwe > \*iNkwa ‘blood’ (1522-kw)  
 dwr ‘to go round, turn, revolve, move in a circle’ > UA/Hp/Yq \*ruya ‘roll, turn, twist’ (1483-kw)  
 dwr ‘to go round, turn, revolve, move in a circle’ > UA/Hp/SNum \*turu ‘whirl, roll, twist’ (1484-p)  
 daayeq ‘bulwark, siege-wall’; Assyrian dayyiqu ‘bulwark’ > Hopi tiyīqa- ‘wall’ (71)  
 dkk / dakka ‘make flat, level, smooth, stamp, crush’ > UA \*takka ‘flat’ (1103)  
 dkk / dky ‘crush’; Hebrew -dakke ‘crush’ (qittel of dky) > UA \*takki ‘mano for metate’ (1223)  
 dll / dalal ‘to hang, be low, languish, weak, poor’ > Hp tilili ‘tremble’; CN toli-nia ‘suffer, be impoverished’ (715)  
 dlq / dalaq ‘to blaze, flame, shine like fire’ > UA \*tala ‘be light, v, light, n’ (716)  
 dmy / damaa ‘to be like, resemble’ > TO -dma ‘to be like or look like’ (751)  
 dɲw / daɲaa ‘to call, name’ > UA \*ti(N)wa ‘name’ (1059)  
 dɲk ‘be extinguished (fire)’ > UA \*tuku / tuka ‘fire go out, dark, black, night’ (876)  
 dopi ‘blemish, fault’; Aramaic dopy-aa ‘damage to reputation, reproach’ > UA \*tīpa ‘dotted, striped, checkered’ (1434)  
 daqal ‘kind of palm tree’ > UA \*taku ‘palm tree’ (961-p)  
 daqqa ‘be fine, crush, knock, rap, strum (instrument) > Hp rīkī- ‘make grating noise, rasping sounds of a rīkīpi’ (893)  
 dqr ‘pierce, dig’; deqer ‘sharp tool or weapon, pick, mattock’ > UA \*tika / \*tikī / \*tikiy ‘cut, stick in’ (72)  
 dqr ‘pierce, dig’, dqr panaa-w ‘till its surface’ > UA \*takirpanawa ‘work, cut’ (827)  
 drg ‘rise, step, tread, advance step by step’ > UA/Tep/Wr \*tiy(k) / \*ti’kī ‘climb, step, make thump noise’ (1326)  
 deše ‘grass, vegetation’ > UA \*tisi ‘grass, weeds, meadow’ (73)

## H

haC- ‘the’ > UA \*a- ‘that’ (1193)  
 huharaa / hohar-aa ‘net, trap for birds or fish-the’ (< Akkadian xuxaaru ‘bird trap’) > UA \*hīyaC ‘trap’ (1203)  
 hauḡaa ‘hurricane, tornado’, pl: huug; haugaa / huugaa > hugaw > UA \*hika / \*hikawa ‘wind, blow’ (1219-p)  
 hwy / həwaa / hawaa ‘he/it was, became, reside’ > UA \*hawa ‘be, exist, dwell (at a place)’ (1345)  
 hwy / yehwe ‘he is’ (Aramaic) > UA \*yihwa ‘that, he, she’ (112)

hwy / Yahwe ‘Yehovah, God of the Israelites’ > UA \*ya’u / \*ya’wV ‘leader, deity’ (800)  
 hwn / huun ‘be endowed with reason, be rational, intellectual, be wise’ > UA \*huna / hu’una ‘know’ (1107)  
 hazza ‘to shake (s.th.), swing, wave, rock’ (as UA \*-c- > -y- in NUA) > UA \*hiya ‘rock, shake, swing’ (1155)  
 haakeel ‘now’ > UA \*ai-pi ‘now’ (haakeel > \*ai) (1157)  
 hal-aa ‘dirt, mud-the’ > UA \*hala ‘moist/wet soil’ (1363)  
 hlk, impfv sg: yelek / yelku / \*yelka ‘go’ > UA \*yiNka ‘enter, move, travel’ (1085)  
 hilla- / -hallel ‘praise, exclaim halleluia’ > UA \*hala / \*halala ‘happy’ (712)  
 henaar ‘hither, toward here’; Arabic hunaa ‘here’ > Wr ena ‘come’; Tr enai / ena ‘here’ (1324)  
 hinné ‘behold!’ > UA ne ‘look! So then’ (1325)  
 hukke ‘was smitten’ (< \*hu-nkay) > Tb hookii ‘deceased grandfather / grandson after death’ (53)  
 hikkiir ‘recognize, know’ > Tr iki ‘know, be aware of’ (810)  
 har ‘mountain’; pl: haree’ ‘mountains (of)’ > UA \*huya / \*huri ‘mountain’ (1119)  
 -hattel (< \*-hatil) ‘to mock’ > UACV-1282 \*’atti / \*’ata / \*’aCti ‘laugh’ (809)

## W

-w / -o ‘his/its’ > UA \*-wa ‘possessed suffix’ (1124)  
 wa- ‘and, (also prefixed to change impfv to pfv / past) > UA \*wa-/o- ‘prefix for past tense’ (1494)

## Z

zbb ‘be in a frenzy, an ecstatic’ > UA \*sakwo / sikwo ‘witch, bewitch’ (18-kw)  
 \*zabboot ‘flies’ > UA \*sakwoti ‘fly, bee’ (17-kw)  
 zgg / zagga, impfv \*-zuggu ‘throw, squeeze, force, cram’ > UA \*cukka/i ‘crowded, mixed’ (622)  
 zwst- ‘belt’ > UA \*šutka ‘belt’ (1048)  
 zhl ‘creep, crawl’ > Ca cawa-y ‘to crawl, climb’ (627)  
 zkk ‘be bright, clean, pure’; zak ‘pure, clean’; zky / zakaa ‘be pure, clear’ > Ca cexi ‘to clear up (sky, water)’ (621)  
 zépet (< \*zipt-) / zaapet ‘pitch’; Syriac zapt-aa / zept-aa ‘pitch’ > UA cope / copī ‘pitch’; UA co’re ‘pitch’ (1116)  
 zaqn-o ‘chin-his’ > NUA \*ca’no ‘chin, jaw’; SUA \*ca’lo ‘chin, jaw’ (628-kw)  
 zaaqen / zaaqan (< \*dqn) ‘be/grow old’ > UA \*cukuC ‘old’ (1019-p)  
 zrʕ / zaaraʕ ‘sow (seed)’; Arabic zaraʕa ‘sow, plant’ > CN cayawa ‘sew, scatter seed’ (623)  
 zrʕ / -zriiʕ ‘bear a child’ > CN ciwa ‘beget, gender’ (624)  
 zeraʕ ‘seed, offspring, descendants’; Arabic zarʕ- ‘seed’ > Hopi cayo ‘child’ (625-kw)

## ḏ (of proto-Semitic), Aramaic ḏ

di’b-aa ‘wolf-the’ > UA \*tīpa / \*to’apa ‘wolf’ (618-p)  
 di’b-aa ‘wolf-the’ > UA \*tī’i ‘wolf’ (619-p)  
 \*ḏabboot(ee<sup>y</sup>) ‘flies’ > UA tapputi ‘flea’ (620-p)  
 dakar ‘male, man’ (Aramaic) > UA \*takaC / \*takaN ‘man, person, body’ (616-p)  
 ḏkr / dakar ‘remember’ > UA \*tīkay ‘think’ (1262-p)  
 zrḥ ‘rise, shine’ (< Semitic \*ḏrḥ); Syriac dinḥ-aa ‘sunrise, light, star’ > -tinuN- of UA \*tatinuN-pi ‘star’ (1408-p)  
 diqn-aa ‘beard-the, chin-the’ > UA \*tī’na > \*tī’ni ‘mouth’ (617-p)  
 zərooʕ ‘arm, forearm, power’; Arabic ḏiraaʕ ‘arm, forearm’ > UA \*toC ‘with the hand’ (1234-p)  
 zry (< \*ḏry) ‘to scatter, sow’; Aramaic dry / ḏəraa ‘to winnow, scatter’, verbal n: dəree / dərii > Tr/Wr \*tari ‘seed’ (1499)  
 ḏrr ‘strew, spray’ > Ktn tīyīyī’y ‘drizzle (weather)’ (1373-p)

## ḥ

ḥbl (< \*xbl) ‘spoil, mar, corrupt’ > UA/Hp \*hupala ‘waste, dishearten’ (645-kw)  
 \*-ḥabbil (< \*ḥbl) ‘bind, tie together’ > SP wikkwinta ‘to wrap around, coil’ (658-kw)  
 ḥabaqa ‘to pass air, break wind’ > Hopi hovaqtī ‘have an odor, smell bad, stink’ (672)  
 ḥabéret ‘marriage companion (feminine), wife’ > UA \*hupi ‘woman, wife’ (81)  
 ḥgg / ḥagga ‘overcome, defeat’ > Hp hoḥvi ‘strong, sturdy, durable’ (955-kw)  
 ḥgz ‘hinder, block, detain’ > Hp oḥo-(k-) ‘collide with, reach an impasse, get blocked in one’s plans’ (956-kw)  
 ḥagor-taa ‘girdle, loincloth’ > UA \*wikosa ‘belt’ (1046-kw)  
 ḥaadaaš ‘new, fresh’; ḥdš ‘happen, be/become new’ > UA \*uta’a ‘be’ (1435)  
 ḥady-aa ‘breast/chest-the’, pl: ḥḏaawaat- > UA \*tawi(C) ‘chest’ (1056)  
 ḥzy ‘see, perceive, notice’ > UA \*husi / \*h<sup>w</sup>asi ‘look, peek at’ (82)  
 ḥoṭer ‘rod’ > UA \*(h)uci ‘tree, stick’ (651-kw)  
 ḥt’ (< \*xaṭi’a) / ḥaataa’ ‘miss (a mark), do wrong’ > UA \*wa(C)tiN / \*waCtiC ‘lose, lost, misled’ (649-kw)  
 ḥt’ (< \*xaṭi’a) / ḥaataa’ ‘miss (a mark), do wrong’ > Ktn a’caw ‘miss (the mark)’ (650-p)  
 ḥaṭab ‘firewood’ > UA \*hucakwa / Tep husaba ‘pitch’ (666)  
 ḥwg / ḥuug ‘circle, horizon’ often in the sense of ‘atmosphere, firmament’ > Ls huḥ-la ‘the wind’ (912-kw)  
 ḥwṭ / ḥuuṭ ‘thread’; Arabic xyṭ ‘to sew’, xayṭ ‘thread, twine, cord, string’ > UA \*wit > \*wi(C)- ‘string, rope’ (657-kw)  
 ḥwl / məḥolaa ‘a dance in a ring, n’ > UA \*mulawa / mulawi ‘a dance, n’ (826)

hjwr / hjuur 'look, behold, gaze' > UA \*hura 'come up, look in/over' (667)  
 hws / hys, impfv: \*ya-huus; (hiqtil) yahiiš 'hurry, hasten' > TSh yawi(sī) 'quickly, fast, in a hurry; hurry up!' (1433)  
 hyy / haya, impfv: yi-hye 'to live' > Wr ohee / ohoe 'to live' (1437)  
 hayil / hail / heel 'strength, ability' > UA \*wil 'strong, able' (653)  
 hool 'sand'; Aramaic haal-aa; Aramaic pl: haalaat-aa 'sand, sandy area' > UA \*(h)ola (Tep) / \*otta (Num) 'sand' (1141)  
 heleb 'fat' < \*hilb > UA \*wip / \*wiCp / \*wi'p (>\*wi'i) 'fat' (652-p)  
 hll (< \*xll) / ya-hallel 'play the flute'; haaliil 'flute, pipe' > Tb luulu'~'uluulu 'play a flute'; Ca yulily 'pipe' (648-kw)  
 hlp, impfv: y-hlVp 'come by turns, pass on, pass over, fade away' > Wr yuipa 'be worn out' (857)  
 hml / hamala 'carry, pick up, load up and take along' > UA \*homa / \*hu'ma 'take, carry' (1040)  
 hml / hamala 'carry, take along', impfv: -hml / -hmul, infinitive hōmol > Ca hūmulku 'wrap around' (1041)  
 hmm 'heat, bathe, wash' > UA \*homa 'wash, bathe' (671)  
 hms > Aramaic hmš 'to ferment, leaven, mix' > Hopi homo'-ta 'be mounded, bulged, convex' (1278-p)  
 hnr 'to pitch, cover, smear' (with s.th.); hammad 'to color or dye red' > UA \*humay 'smear, spread, rub, paint' (79)  
 hnk 'train up, dedicate' > Ca huneke 'to take an Indian bath'; Yq hūnakte 'sentence, direct, train/raise' (673)  
 hnn 'to favor, have compassion on' > -wen- of Eu na-wencem 'pity' (662)  
 hnp 'be pigeon-toed, walk bow-legged with toes pointing inward, turtle, lizard' > UA \*hunap 'badger, bears' (675)  
 hny / maḥ<sup>a</sup>ne < \*maḥne 'camp, people of the camp' > UA \*mo'ona 'son-in-law, in-law' (1407)  
 hpz / \*hīppaz 'to urge, press, to hasten, incite' > UA \*wīpaC / \*wīppaC 'whip' (1323)  
 hpp 'to rub off, wash' > UA \*up(p)a 'bathe, wash, rub' (80)  
 hippušit 'beetle' > UA \*wippusi 'stink beetle' (853-kw)  
 haql-aa 'field-the, open country-the' > UA \*oka 'sand, earth, rock' (1275)  
 hqq 'cut in, inscribe' > UA \*wīk 'cut' (659)  
 heš / heši 'arrow' > UA \*huc(a) > \*huC 'arrow' (78)  
 hsr (< \*xḏr) 'be green, verdure, vegetation' > UA \*husa 'grass' (644-kw)  
 hsr (< \*xḏr) 'be green, verdure, vegetation' > Tb hul'hulat 'be green' (1412-kw)  
 hrb 'lay waste, destroy'; impfv ye-hrab 'massacre', or hoqta impfv: \*yuhrab > SP yurava 'be overcome' (674)  
 hrgaa 'dust' > UA \*huCkuN 'dust' (665)  
 hargol 'type of locust'; Arabic \*hargal / \*hurgul 'locust' > Tr urugi-pari 'type of grasshopper' (1321-kw)  
 hrk / haruka 'set in motion, move, stir, be agitated' > UA \*huyuka 'move' (1156)  
 haram / hurmat- / hariim 'woman, wife' > Wr oerume / oorume 'woman' (660)  
 hōrep (< \*xrp) 'harvest-time, autumn' > UA \*or 'to harvest' (656-kw)  
 hrp / herpaa 'shame, mutilation, reproach, deficiency' > Hp ööpī 'sickly, wounded, invalid, one with disability' (663)  
 hariḏa 'be yellow'; Syriac hraašaa 'gold-colored' > Tr ura-kame 'pale yellow' (669)  
 heres 'earthenware, vessel, potsherd' > Ca wayisma-l 'plate, dish' (670)  
 hrr / haaraa 'be hot, burn', Ethiopic/Arabic harra 'be hot' > UA \*uru / \*irī 'hot' (1322)  
 htr 'to dig' > UA \*hotaC 'to dig' (664)

**X (of proto-Semitic \*x)**  
 \*xbt 'beat, strike, knock, rap' > UA \*kappica 'clap, slap' (629-p)  
 \*xbt 'be low' (e.g., \*xabitt 'flat cakes'; \*maxabat 'flat plate, griddle' > UA \*kapal / kapar 'flat' (635-p)  
 \*xbt 'be low' (e.g., \*xabitt 'flat cakes'; \*maxabat 'flat plate, griddle' > NUA \*kapat 'low, dish' (636-p)  
 \*xdl / xadila 'cease doing, stiffen, become rigid' > Hp hīrī-ti 'come to a stop, harden' (1007-p)  
 \*xdš 'scratch', verbal noun: xadš 'scratching'; Arabic xadš 'a scratch, scratch mark' > UA \*kīca 'scratch' (1490-p)  
 \*xaluqa 'be smooth'; Hebrew ḥlq 'be smooth, slippery' > UA \*kalu 'slide' (765-p)  
 \*xamar 'wine'; Arabic ximiir 'drunkard' > UA \*kamaC 'drunk' (631-p)  
 \*xuld / \*xild-aa 'mole, cave dweller-the' > UA \*kita 'groundhog' (1088-p)  
 \*xole 'be sick, hurting' > UA \*koli 'be sick, to hurt' (630-p)  
 \*xnq 'put around neck'; \*xanaaq-aa 'band, collar, ropes/chains around neck'  
 > UA \*konaka 'necklace, collar, string of beads' (632-p)  
 \*xarb-aa 'sword, blade' > UA \*haypa 'edge, shore' (557-p)  
 xanšaatu (Akkadian); Mandaic haša / haša; Syriac haššaa; Arabic xašr- 'hip, haunch, waist' > UA \*kaca 'hip' (634-p)  
 \*xrd > Hebrew ḥrd, impfv: tē-ḥ(ē)rad 'tremble, worry' > UA \*tiwa 'shy, embarrassed' (1512-kw)  
 \*xrr / xarra 'to snore' > Ls xaráa-ya 'to snore' (655-p)  
 \*xasiya 'to fear'; Arabic maxšaāt 'fear' > UA \*makasi 'to fear' (881-p)  
 \*xatan-aa 'in-law' > UA \*kusana 'in-law' (633-p)

**T**  
 taan / ta'n 'body of a shirt' > UA \*taa' 'shirt, clothing' (869)  
 'atib / 'at( )ib / haṭṭiib 'do good, treat well' > UA \*attip 'good' (1368)  
 tbl 'dip s.th. into' (quttal: ṭubbal) > UA \*cuppa 'sink, submerge, dip' (1159-p)



t̥bl / \*t̥abbel ‘dip, immerse’ > CN cakwaa ‘to soak’ (1319-kw)  
 t̥bʕ ‘to sink down’ > UA \*cipo-k- ‘quicksand, get stuck in mud, get bogged down’ (1320)  
 t̥ibbuur ‘navel’ > UA \*sikuC / \*sikuN ‘navel’ (777-kw)  
 t̥abbuur / t̥ibbuur ‘navel’ > Tb šappušt ‘belly’; NP sibudu ‘navel’; Cr sipu; Hp sivon-, Tewa sipu ‘navel’ (778-p)  
 ha-t̥tob ‘the good (thing/one), good (abstract)’ > UA \*ayu ‘good’ (< \*acu) (786)  
 thr / t̥aahar ‘be clean (dietarily, of animals/food)’ > UA \*cahar ‘fork(ed)’ (789)  
 t̥w̥h ‘to over-spread, coat, besmear, over-lay’ > Wr cuhca ‘1 to rub, 2 to hang up, put on clothes’ (779)  
 t̥wy / t̥awaa ‘spin (thread)’ > CN cawa ‘to spin’ (770)  
 t̥wl ‘to cast, throw’ > UA \*culi: TO šulig ‘to put, throw away, pl’ (781)  
 t̥wr- / t̥uur-aa ‘rock, hill, mountain-the’ > UA \*toya ‘mountain’ (868)  
 t̥hy / t̥ah̥aa ‘to hurl, shoot’ > Wr cewa ‘to throw or hit with a missile’ (782)  
 t̥hn ‘grind, pound, crush, destroy’ > UA \*to’na(C) ‘hit, pierce’ (773)  
 t̥ll / t̥alala ‘spray, sprinkle, drizzle, bedew, rain a fine rain’ > UA \*cololo ‘sprinkle, rain lightly’ (709)  
 t̥lʕ ‘to arise, come up’ > Tb tulu’ula- ‘to get up from sitting’ (713)  
 t̥m ‘be unclean’, t̥um’a(t) ‘uncleanness’ > co’ma ‘mucus, have a cold’ (772)  
 t̥mr ‘hide, bury, cook underground with coals’ > UA \*ti’ma ‘baked underground with coals’ (865)  
 t̥mr ‘hide, bury, cook underground with coals’ > UA \*t̥imal- (t̥amal-li) ‘what is baked underground’ (866)  
 t̥nn / t̥annana ‘to sound, hum, buzz’, muṭannin ‘humming one’ > UA \*muttanaC ‘hummingbird’, \*mutaN ‘bee’ (1101)  
 t̥ʕm ‘taste, eat’; plural participle t̥oʕmiim > UA \*cu’mi ‘suck, sip’ (771)  
 t̥ʕn ‘to load (as beasts of burden)’ > Wr cuhce ‘to place a load on a burro, horse, etc’ (780)  
 t̥ap ‘little children’; Arabic t̥ifl- < \*t̥ipl- ‘infant, child, baby, boy’ > UA \*cupi ‘small’ (792)  
 t̥ap ‘little children’; Arabic t̥ifl- < \*t̥ipl- ‘infant, child, baby, boy’ > UA \*cipi / \*cippili ‘younger brother’ (1051)  
 t̥pl ‘to smear or plaster over, coat, cover’ > Hopi cakwani ‘plaster’; Hopi cakwan-ta ‘be plastering, smearing on’ (783)  
 t̥ariya ‘to be juicy, moist, fresh’ > UA/Wr \*-cori ‘wet/moist’ (723)

## Y / I

ya’ya’ / yaa’yaa’ / yaa’ayaa’ ‘beautiful’ > Ls yawáywa ‘good-looking’; Sr yi’aayi’a’n ‘beautiful’ (571-p)  
 ya’or ‘river’ > UA \*yaway ‘river, canyon’ (799)  
 yaabaal / yuubal ‘watercourse, stream’ > UA \*y̥ippa ‘valley’ (802)  
 yabbelet ‘wart’ (Akkadian ublu ‘wart’) > UA \*upuliwa ‘wart’ (1209)  
 ybš / yii-tii-baš ‘dry’ > UA \*pasaC ‘dry’ (1062)  
 ybš / tiibašuu ‘dry, pl’ > UA \*tapasu ‘dry’ (1063-p)  
 ygʕ ‘grow weary, labor, struggle’; Arabic waǧiʕa ‘have pain, suffer’, yagʕa > UA \*-yowa ‘suffer’ (1188)  
 ygʕ ‘grow weary, labor, struggle’; Arabic waǧiʕa ‘have pain, suffer’, yagʕa > UA \*-yowa ‘shake’ (1189)  
 ygr / yaagor- ‘be afraid’; yooger ‘afraid’ > Ca yuki ‘get scared, be afraid’ (1318)  
 yagar ‘hill, heap of stones, stone monument’ > UA \*yakaC / \*yakaR ‘nose, point, ridge’ (1279-p)  
 ydʕ ‘know’, hiqtiil stems -diiʕ / -daʕ ‘inform, tell’ > UA \*t̥iwa / \*ta(hV)wa ‘say, advise’ (1149)  
 ydʕ ‘know’, hiqtiil stems -diiʕ / -daʕ ‘inform, tell’ > UA \*t̥wi learn’ / \*t̥awa ‘tell’ (1150)  
 yhb / haabaa > haavaa ‘come on, let’s (do s.th.), go to (cohortative)’ > UA \*h̥ipa > h̥iva ‘go ahead, hortative’ (1459)  
 Yahwe ‘Yehovah, God of the Israelites’ > UA \*ya’u / \*ya’wV ‘leader, deity’ (800)  
 yehwe ‘he is’ (Aramaic) > UA \*yihwa ‘that, he, she’ (112)  
 hayyownaa / hayyoonat ‘dove’ > UA \*hayowi ‘dove’ (824)  
 yoore ‘to water, send rain’ (< \*yawri) > UA/Tak \*yawya / \*yuya / \*yawri ‘rain, snow’ (1037-kw)  
 yoore ‘to water, send rain’, pfv: hoora, inf: hooroot ‘watering’ > UA/TrC \*hora / \*horo ‘rain’ (1038-p)  
 idaa / idan ‘then, therefore, if, when, whenever’ > Tb tan / tanni ‘if’ (1416-p)  
 y̥hm ‘be in heat, be warm’ > UA \*yuma > \*yoma ‘copulate’ (855)  
 y̥hm ‘be in heat, be warm’ > UA \*yu’mi ‘warm’ (856)  
 yayin / yain / yen ‘wine’ > Wr yena ‘strong (of liquor)’ (1316)  
 yld ‘give birth, lay eggs’ > UA \*yoli ‘live, alive, give birth, be born, hatch’ (1028)  
 yall-aa ‘lizard’; Aramaic(CAL) yarl-aa ‘lizard’ > UA \*yul ‘lizard, sp.’ (1239)  
 ha-yyamiin-aa ‘the-right-toward’ > UA \*(h)ayamin- ‘right’: Wr ahamina ‘right side’; Sr -ayuno ‘right’ (801)  
 ba-yyamee’ ‘in the year of’ > UA \*pami ‘year’ (823)  
 ynq ‘to suck’, impfv: yiinaq; yaanq-aa ‘nursing child-the’ > UA \*yi’na ‘smoke tobacco, smoke by sucking’ (1160)  
 ’isaa ‘wall, f’ (Syriac) > UA \*isV ‘wall, dab, make mud wall’ (589-kw)  
 yáʕar ‘wood, forest, roadless terrain’ > UA \*yuwiN ‘ponderosa pine’ (92-kw)  
 yáʕar ‘wood, forest, roadless terrain’ > UA \*yuwa ‘open country, outside’ (1072-p)  
 yšb or yšg or yšʕ ‘lay, put down, set, place’ > UA \*yaca ‘put, set down’ (1126-kw)  
 yšb or yšg or yšʕ ‘lay, put down, set, place’, hiqtiil \*moošiiC > UA \*moci ‘put, set down’ (1127-kw)  
 yišhar ‘oil’ > UA \*yuhu ‘grease’ (1120)

yr' / yiiraa' '(he/it) fears'; yir'a(t) 'fear, n' > UA \*iya-paka 'fear, v' (728)  
 yry / yoore (m) / toore (f) 'instruct, teach' (hiqtiil 3 sg impfv), toore le/la > Tb tooyla 'teach (him/her)' (1344)  
 yrq 'be green' > UA/Tep/TrC \*yora 'green' (1093)  
 yšb / yašiba 'sat/dwelt' > UA \*yasiba 'sit, reside' (3)  
 yšb / yoošbim 'sit, pl' > UA \*yukkwi 'sit, pl' (1158-kw)  
 yšb 'sit, dwell' ≈ Arabic wθb 'jump, hop, jump up, start' > UA \*yasa 'fly' (1027)  
 Aramaic 'yt / 'iit '(there) is/are' > UA \*ka'ita 'there is not' (ka = 'no'; so -ita = 'there is' (913)

## K

kbd 'be heavy, honor, sweep', impfv: -kbod > UA \*poci 'sweep' (1353-p)  
 kbd 'be heavy, honor, sweep', hiqtiil: hi-kbad > UA \*(hi)paca 'sweep' (1354-p)  
 kbd 'be heavy, honor, sweep', qattel: kabbed > UA \*kapir 'clean (house), good, well' (1355-p)  
 kbl 'bind, braid' / məkabbal 'bound, tied up' > CN mekapal-li 'tumpline, carrying net' (1338)  
 kabara 'be older, great, big, grow, increase' > UA \*kaparaC 'long, tall' (1015-p)  
 khh / kehah 'be inexpressive, dim, dull, colorless, disheartened' > Ktn 'a-kīhahīk 'sad' (903-p or kw?)  
 kaukb-aa(') 'star-the' > UA \*kuppaa': Sr kupaa' 'to shine (as of the stars)' (1274-p)  
 kwkby / kuukkabay 'owl' > UA \*kuku 'burrowing owl' (1117)  
 kuuky-aa 'spider-the' > UA \*kuukya / \*kukkaC 'spider' (1409-p)  
 kakkar 'valley' > UA \*aki 'arroyo, canyon, valley' (974-kw)  
 kələb, kalb- 'dog' > UA \*kalop 'fox' (711)  
 kly 'complete'; kəliiy 'utensil, tool, weapon, vessel' > UA kiyii- 'complete, arrowhead, liquid in container' (1314)  
 koliit / kaliit 'kidney' > UA \*kali 'kidney' (1105)  
 klm 'address s.o.' > Ls 'ulómi 'call s.o. names' (980)  
 kam' - / kama'aatum 'truffles' > UA \*kamo'-ta 'sweet potato' (575-p)  
 kəmoo 'like, as' > UA \*kīm 'how' (1212)  
 kmn 'be hidden, concealed, latent' > UA \*kuman 'sleep' (1429)  
 kann 'shelter, house, nest' > UA \*kanni 'house' (890)  
 knn / knn / he-kannu 'prepare, make ready, fix s.th.' > UA \*hanni 'do, make'; Hp/Tak -kin 'causative' (1011)  
 kns 'gather, wrap' > UA \*kina / \*kanas 'cover' (829)  
 knf / yi-kkanef 'be humble'; hi-knaŋ-'humble vt' > CN ikno-teka 'be/make humble', ikno-nemi-tia 'live humbly'(1313)  
 kəpən / kəpən 'be hungry' > UA kopii- 'be hungry' (1369)  
 ksy 'cover'; Hebrew kissaa / kissii- 'cover' > UA \*kis / \*kiCsi 'shade' (1154)  
 ksr / kasara 'break' > UA/Tr/Wr \*kasi 'break' (985)  
 kpr, impfv: \*-kpor 'cover' > Tr pora 'cover' (1396-p)  
 kəfiir (< \*kapiir) 'young lion' > UA / PYp kaper 'bobcat' (803)  
 krr / krkr 'go in circles, dance' > SP kiya 'have a round dance' (64-kw)  
 karkara / qarqara 'coo (pigeon), grumble, gurgle' > UA \*ka(k)kara 'quail' (960)  
 kəraaŋ 'lower leg' > UA \*yī'u < \*kVyu'u 'leg' (997-kw)  
 kirš / kariš 'stomach, paunch, belly' > UA \*kīca 'belly, waist' (1003)  
 kutónet 'shirt-like tunic' > UA \*kutuni 'shirt' (755)  
 kaatep / katip / katp-aa 'shoulder' > UA \*kotapa / \*kotapo 'shoulder' (51)  
 ktp 'carry on the shoulders' > UA \*kucupu 'carry on the back' (753)  
 kootl-aa 'wall-the' > UA \*-kowli / \*kori 'wall' (1206)  
 ktš, makteš 'mortar, grinding stone' (< ktš 'grind') > UA \*maCta /\*mattas 'grinding stone, mortar' (614)  
 ktš 'pound, pound fine, bray'; unattested \*kittes ( < \*kittas) > Yq kitta / kittasu 'grind, mash' (615)  
 ktš / \*-ktušu 'pound, bray' > tusu 'grind' (1094)

## L

l- 'to/for'; Aramaic le 'to/for him' > UA \*li 'to, for' (1187)  
 l'y / loo'e 'grow weary/tired' > UA \*loi 'be tired' (705)  
 l'm 'to bandage, wrap, dress' > UA \*taluma 'blanket, garment' (1129)  
 lebb, hal/han-lebb 'the heart' > Hp inaŋwa 'heart, life' (1312-kw)  
 lbš / -lbaš-uu 'put on (garment), clothe (oneself)' (-lb- > -bb- > -kw-) > UA \*kwasu 'dress, shirt' (50-kw)  
 lahgat 'tongue', pl: \*lahgoot > UA \*laŋi / \*laŋu 'tongue' (698-kw)  
 lo 'to him/it, has' > UA lo (1026)  
 lwz / lawz 'almonds' > UA \*lawas 'pine nut cache' (702)  
 lwy / laawaa 'turn, bend, twist' > UA \*líwa/i 'be tightly twisted' (706)  
 lħy / ləħiy 'chin, jawbone'; Arabic laħy- 'jawbone' > Hopi öyi 'chin'; Ls 'óöyi-l 'jaw, chin' (1431)  
 lxš / \*-lxus-uu 'whisper, mutter sounds' > UA \*kusu 'make sound (characteristic of species)' (1064)  
 lxš / \*-lxus-uu 'whisper, mutter sounds' > UA \*kus(pi) 'throat, crawl' (1065)

lmd / loomed ‘learn’ > UA \*lomi ‘know’ (699)  
 lummad ‘learned, trained, taught’ > UA \*luma ‘good, beautiful, fit, nice’ (700)  
 -lmad ‘learn’ > UA \*mata / mati ‘know’ (701)  
 lmm ‘gather, collect, befall, overcome’ > UA \*limimī ‘burn, fall in (a structure)’ (703)  
 lappiid-aa ‘torch-the, light pot-the’ > pita ‘fire’ (883-p)  
 laqlaq ‘stork’ > Ca la’la’ ‘goose’ (704)  
 lqh / laaqah ‘take (in hand), grasp, take as wife’ > UA \*loko ‘marry’ (695)  
 lqh / \*ya-lqah > \*yi-qqah ‘take, take as wife’ > \*yikoC / \*yokoC ‘copulate’ (696)  
 lqh, -qqah; imperative forms: qah and qahaa > UA \*ḡiha / \*ḡihi ‘grasp, catch’ (1465)

## M

ma ‘what, relative pronoun’ > UA \*ma ‘what, which, that, relative pronoun’ (767)  
 mə’od ‘strength, very, very greatly, exceedingly’ > UA \*mu’i (850-kw)  
 m’n ‘refuse’ > Hp meewan- ‘forbid, warn’ (1333-p)  
 mwg / muug ‘to melt, soften, dissolve, faint’ > TO moik(a) ‘to be soft’ (1311)  
 mwq, pfv: \*maaq ‘mock’ > UA \*mak ‘laugh, tease’ (808)  
 mooq-aa ‘felt-sock or stocking, shoe-the’ > UA \*moko ‘shoe, moccasin’ (1280)  
 mhj / məḡa ‘to strike, smite, wound, and wound (with an arrow)’ > UA \*mu’a/i / \*mu(k/h)V ‘shoot (arrow)’ (1183)  
 mhjwṭ-aa ‘mucus’ > UA \*mit... ‘snot, mucus’ (1109)  
 maḡne < \*maḡne ‘camp, people of the camp’ > UA \*mo’ona ‘son-in-law, in-law’ (1407)  
 moot ‘pole, carrying frame’; mootaa ‘pole, bar of yoke’ > UA \*mu(C)ti ‘point (of s.th.)’ (790)  
 muxx ‘brain’ > UA \*mo’o ‘head’ (1078)  
 maṭṭe ‘staff, rod, branch’ > Hopi komaci ‘kindling, small sticks or chips of wood’ (Hopi ko- ‘fire’) (791)  
 miy / mii ‘Who?’ but also in place of maa ‘How? What?’ > UA \*mi ‘wh-base, forms interrogatives’ (1213)  
 mayim / meem- ‘water’ > UA \*mīma / \*mīmī- ‘ocean’ (55)  
 miin ‘type, kind’ > UA \*min ‘what kind, how’ (1456)  
 makyaan / mekaa ‘hurting, injuring’ > UA \*mīka / \*mī’a ‘kill’: Ca mékan/méqa; Ls mókna (768)  
 mkr / maakar ‘sell’ (3<sup>rd</sup> masc sg pfv) > UA \*maka / \*makaC ‘give’ (565-p)  
 mlk ‘to lead in council’; melek / malk- / moolek ‘king’ > Hopi moḡwi ‘chief’ (1300)  
 mlk ‘lead in council’; melek ‘leader in council, chief, king’; or muul / mool ‘front’ > UA \*mul / \*muluka ‘first’ (1301)  
 mukke ‘smitten’ (\*mu-nkay > mukke) > UA \*mukki ‘die, be sick’ (52)  
 \*mn ’yn / Hebrew mee-’ayn ‘from where?’; Arabic min ’ayn ‘from where?’ > Tb maa’ayn ‘where from’ (1214)  
 maanoot ‘shares, portions’ > UA \*man(n)u ‘all, every, the count (of)’ (1029)  
 manzaal ‘star, moon’ > UA \*mīcaC / \*mīncaC (1077-p)  
 -mṡak ‘squeeze, crush, rub’ > UA \*ḡaka/i ‘grind, scrape, rub against’ (940-kw)  
 mṡṡ, impfv: yi-moṡṡ ‘slurp, lap’ > UA \*mos ‘suck’ (1173)  
 mṡṡ ‘be few, be too small’; məṡaṡ ‘a little, a little amount’ > UA \*mi’a ‘small’ (1466-kw)  
 mar’ / maar-aa ‘lord, prince-the’, mar’a ‘princess’ > UA \*mara / \*mayha ‘daughter (more often than son)’ (1042)  
 mar’ < \*mar’u ‘prince’, \*mar’a ‘princess’ > UA \*ma’a ‘woman’ (1043-p)  
 mrq ‘rub off, scour, polish, cleanse, vt’ > Sr miyī’-kin ‘wipe out’ (1367-kw)  
 mrr ‘pass, go, walk’ > UA \*miya ‘go’ (65-kw)  
 rṡ + mrr ‘sun-go’ > UA \*ta-miya ‘sun, day, sun-going’ (1379)  
 moṡkat ‘bracelet, fetter, belt’ > Tb mohkat ‘belt’ (1045)  
 mṡṡ; Arabic massa (perf pl: mass-uu, impfv: ya-massu) ‘feel, handle, grope, touch’ > UA \*masu ‘touch, feel’ (1194)  
 maatn-aim ‘loins, dual’; Arabic matnat-aani ‘loins, dual’ > Ls mááča-t ‘back’ (1356)  
 motq- (< \*moteq) ‘sweetness’, motq-o ‘its/his sweetness’; motq-aa ‘her/its ...’ > UA \*mumuko/ka ‘bee’ (1231)  
 meetar ‘bowstring, tent rope’ > CN maatla-tl ‘net, sling’ (1111)

## N

-bbiit ‘look’ (< \*nbiit) > UA \*pici / \*pica ‘look, see’ (562-p)  
 n’bl / nebel ‘skin-bottle, skin (of wine)’ > no’pal- ‘prickly pear cactus fruit’ (often fermented to alcohol) (720-p)  
 naap-aa, written na’p-aa ‘louse egg-the’ > UA \*no’pa / noppa ‘egg’ (1076-p)  
 n’q / na’aqat ‘groan’ > UA \*ni’ok ‘speak’ (1147)  
 naar ‘fire’ written na’r / na’ar ‘fire’ > UA \*na’ay / na’aya ‘fire’ (885)  
 nb’ / nabba’a ‘to tell, inform’; naba’ ‘news, report’ > Hp navo-ta ‘to know, learn by hearing’ (1309)  
 ngd / higgiiid / haggiid / (y/t’)aggiid ‘tell, announce, inform’ > TO ’aagid ‘tell s.o. s.th.’; Hp ki-ta ‘say’ (1310-p)  
 ngṡ / ti-ngaṡ ‘she/it touches’; Aramaic t-ngṡ > Hp toḡo(k-) ‘come into contact with, touch, reach’ (1196)  
 nagaṡ / niggaṡ ‘approach’ > Ca néq- ‘come’ (1018-p)  
 ndw / nadaa ‘invite, call together’ > UA \*nata / \*nara ‘cry’ (1425)  
 nhy / nahaa’ ‘to lament’; Hebrew nahi / nahi ‘lamentation’ > UA \*ni’i ‘sing’ (1021)

nwn > naanii / naanaa 'mother' > UA \*nana 'mother' (1079)  
nwr, impfv: nuur(u), pfv: naar 'make/become light' > UA \*nur / \*nar 'become daylight' (1420)  
náħal (< \*naxal) 'river valley, wadi' > Ktn naka-č 'gully, ravine, cliff' (646-p)  
náħal (< \*naxal) 'river valley, wadi' > SP noiC 'canyon, wash' (647-kw)  
nħl / naaħal, -nħal 'take/have as possession'; naħ<sup>a</sup>lat 'inherited property' > TO nolawt 'buy, buy from' (1308)  
nṭṣ 'to plant', yi-ṭṭaṣ 'he plants' > UA \*'ica 'to plant' (774-kw)  
nṭṣ 'to plant', neṭaṣ / naaṭaṣ 'a growing plant' > Hopi natwani 'plants, harvest' (775)  
nṭr 'watch, guard' > UA \*natya 'plan', Tr natá 'think', TO nenašan 'look, check, stay awake/alert' (776)  
mukke 'smitten' (\*mu-nkay > mukke) > UA \*mukki 'die, be sick' (52)  
hukke 'was smitten' (< \*hu-nkay) > Tb hookii 'deceased grandfather / grandson after death' (53)  
hikkiir 'recognize, know' (< \*hi-nkiir) > Tr iki 'know, be aware of' (810)  
nes 'flag, standard, ensign' > Hp na'ci / naci 'standard outside kiva when not in use' (1307)  
nasaga, impfv: -nsugu 'to weave' > UA \*sugu 'to sew' (1411)  
nṣm 'be lovely, pleasant, delightful, good, beautiful' > UA \*numa > \*noma 'good, good-looking' (900)  
naṣar 'boy' > UA \*nowa 'son' (90-p)  
naṣ<sup>a</sup>ra(t) (< \*naṣrat) 'girl' > NUA/Wr \*nawiC 'girl' (91)  
naṣar 'boy' / naṣ<sup>a</sup>ra(t) (< \*naṣrat) 'girl' > UA \*na'a 'boy/girl' (1480-kw)  
-nṣar 'shake, grunt, roar' > \*ṣar 'shake, be dizzy' (941-kw)  
nṣħ 'blow, breathe'; \*napxat 'puff, breath, gust' (\*-px- > -k-; \*napxa > nika) > UA \*nika 'be windy, blow' (1218-p)  
npl 'fall, be born'; impv: -ppol > UA \*puli 'to fall, give birth, daughter' (718)  
npl / \*ta-npiil > \*teppil: 'cause to fall' > UA \*tūppin 'trip, hunt, track' (822)  
nṣš 'to breathe'; nepeš 'breath, life, soul'; unattested: \*hippiiš 'breathe' > UA \*hikwis 'breathe, spirit, heart' (839-kw)  
nṣš / niqal: hinnapeš 'breathe, recover' > UA \*hiapsi 'breathe, rest, live, heart' (1174)  
nepeš 'soul, self'; napš-ó 'itself, himself'; Syriac npeš-uhu 'life, soul, self-his' > UA \*pīsu / \*pasu 'self' (1030)  
nṣr 'to reach mid-day, become noon'; Arabic niṣf- / nuṣf- 'half, middle' > UA \*nasipa 'half, middle' (1452)  
nṣr 'keep watch, watch over' > nese / nese-ro / nese-ri 'watch over, take care of' (1176-p)  
nqm / naqama 'revenge, be hostile, angry' > \*na-kamu 'upset, angry' (1034-p)  
nqm / naqama 'revenge, be hostile, angry' > \*naṣam 'angry' (1034-kw)  
nś 'to lift, carry, take, be lifted up in vision' > SP nonosi 'to dream' (1306)  
nš 'lend out' > Hopi nasi-moki 'borrowed thing, loan' (1439)  
naaš-iim 'women, pl'; Syriac nešaa 'women' > UA \*nos-tu 'old woman' (1271)  
nešaa 'women' > UA \*nīsa 'aunt, mother's older sister' (1334)  
ntn, imperative: ten / teni 'give!' (< \*tani), impfv: -tten > UA \*tani 'ask for' (1036)

## S

s'b 'to age', Syriac saa'ib(at) 'old man/woman' ≈ Hebrew \*soo'ib(at) > Tb šo'ibit / šoobit 'old woman' (891)  
sbb 'to turn self around, go around, surround' > Ca suvuvay 'to whirl around' (1305)  
sbl 'carry'; sabbaal 'burden carriers'; \*hisbiil > Hp iikwil-ta 'put on the back to carry' (40-kw)  
šibl- 'lion cub' or Arabic sabṣ- / sabuṣ 'beast of prey, lion' > Wr teh-sebo-ri 'baby mtn lion' if teh- is 'rock' (1290)  
sbr 'be bright, intelligent, understand', sabbaar 'reasoner, scholar' > UA \*suNpa 'know' (1106)  
sgd / sāgod 'bow down' > UA \*coko 'kneel, knee' (1255)  
Arabic sahm- 'arrow, dart'; pl suhuum > UA \*suhuma 'arrow' (752)  
Arabic šwy / šawaa 'broil, grill, roast' > UA \*sawa 'boil, apply heat, cause to melt' (879)  
Aramaic sw' / swy / səwaa 'to long, desire' > UA \*suwaC 'to want'; UA \*sīwaC 'to want' (1207)  
sup-aa 'end-the'; šuup-taa 'chip, pin, n.f.' > UA \*cuppa 'point, prick' (1502)  
suupaa, pl: suupoot 'storm, storm-wind', Aramaic šwp 'to blow (of wind)' > UA \*sīpi 'cold wind' (1073)  
sws / sawisa 'be moth-eaten', saas / suus 'moth, mothworm' > UA \*soso- 'butterfly' (854)  
saahjil 'coast, seashore' > UA \*suwil 'edge, shore, border' (1074)  
saħr- / suħr-, pl: suħuur 'lungs'; also masaahjir 'lungs' > Tb mošooha-t / mosooha-t 'lungs' (1421)  
šakka 'pierce, prick, stab'; Arabic šikkat 'weapons'; Hebrew sek 'thorn' > UA \*sikki 'spear, pierce, stick' (1291)  
sly / salaa / saliya 'think no more on (s.th.), forget, comfort, delight, take pleasure in'; Hebrew šalaa 'rest'  
> Hp salayti 'be gratified, fulfilled, pleased by/from' (1501)  
saalšaam 'locust' > UA \*coho / \*co'o 'grasshopper' (816-kw)  
sm'l / Old Canaanite hassim'al 'the-left' > UA / Tb 'aašiyān / aašijān 'left side' (1246)  
smm / sammem 'to poison' > UA \*samīm 'be wet, numb' (877)  
simmora 'squirrel' > UA \*ciCmo / \*cimo 'squirrel' (1362)  
snw 'gleam, shine, be beautiful' > Hp soniwa / sonwa-y 'be beautiful, pleasing, bright' (13)  
Arabic singaab 'squirrel' = unattested Hebrew \*siggoob 'squirrel' > UA \*sikkuC 'squirrel' (57)  
Arabic \*saṣapat 'palm leaves' > UA \*caupali 'palm sp' (804)

spd ‘mourn for, sing the lament for the dead, bewail’ > UA \*osp/ops... ‘tears, n’ (898)  
 səqaʃ, impfv -sqaʃ ‘to crouch, squat’ > \*cuku ‘stoop, bend over’ (1254)  
 šarnaqat ‘cocoon’, pl \*sarnaqoot > UA \*caʔiku / \*cayiku < \*caCCiku ‘cocoon’ (1058-kw)  
 šrq / srq ‘to comb’ > UA \*siyuk / \*ciyuk ‘to comb’ (62)  
 sirq-aa ‘comb-the’ > UA \*cika ‘to comb, sweep’ (63)  
 swrr ‘turn, revolve, dance’ > UA \*suyuyu ‘spin, whirl’ (727)  
**ʃ**  
 ʃaab / ʃoob ‘beam, item of wood’ > UA \*wop / \*wopiN ‘wood, board, beam’ (1204)  
 ʃgz / ʃagaza ‘to age, grow old (of women)’ > Tr wegaca- ‘grow old (of women)’; UA \*okaci ‘old woman’ (87)  
 ʃagol ‘round’ > UA \*wakol ‘round’ (677)  
 ʃgl ‘make a circle, be round’; noun or f. impfv: \*ta-ʃgol > UACV-433a \*takola / \*takula ‘round, (en)circle’ (1464)  
 ʃgm ‘be bent, weighed down, grieve’ > UA \*wakam / \*waŋam ‘down, deep’ (927)  
 ʃdw / ʃadaa ‘run, dash, race, pass’ > UA \*wata ‘run’ (1233)  
 ʃwr > ʃaara / ya-ʃwaru ‘be/make blind, go away with (s.o./s.th.)’; IV aʃaara ‘lend, loan’ > UA \*wara ‘sell’ (1202)  
 ʃzb / ʃazaba ‘leave, abandon, let go, give up s.th.’ > Sr widap-kin ‘leave, let go, abandon, quit, stop (doing s.th.)’ (688)  
 ʃʔallep ‘bat’; ha-ʃʔallep ‘the-bat’; Aramaic ʃʔallep-aa ‘bat-the’ > UA \*hoʔnapi ‘bat’ (784)  
 ʃaʔmaa ‘thigh, n.f.’ > UA \*uma ‘thigh, upper leg’ (1282-p)  
 ʃaʔiʃaa ‘sneeze, n.f.’, ha-ʃʔiʃaa ‘the-sneeze’ > UA \*haʔtisa ‘sneeze’ (1162-kw)  
 ʃayʔ / ʃeet ‘bird of prey’ > UA \*wiCtiki ‘bird’ (878)  
 ʃlw / ʃly / ʃaalaa ‘ascend, go up, grow’ > UA \*wila/i ‘grow’; Hp wiŋwa (681)  
 ʃlw / ʃly / ʃaalaa ‘ascend, go up, grow’; taʃale ‘it/she grows’ > UA \*ʔiwil ‘grow’ (682)  
 ʃlw / ʃly / ʃaalaa ‘ascend, stand up, arise’, participle: ʃoole > Tb oolit ‘get up’ (1257)  
 ʃlw / ʃly / ʃaalaa ‘ascend, stand up, arise’, pl: ʃaluu > \*wiwīlu-ka ‘stand, pl’ (1258)  
 ʃlw / ʃly; maʃʔle ‘rising, ascent, climb’; Hebrew maʃʔlaa ‘stairs, upwards’ > UA \*-mo- ‘up(ward)’: iʔmóla ‘stairs’ (1268)  
 ʃlw / ʃly; maʃʔle ‘causing to rise/go up’ > \*mula / \*molo ‘boil, steam, waft upward’ (1488)  
 ʃlw / ʃly; maʃʔle ‘causing to rise/go up, cause (smoke) to rise’ > \*mola / \*moli ‘be smoke, give off smoke’ (1491)  
 ʃaluqaa ‘leech’; ʃalaqat ‘leech’ > UA \*walaka ‘snail’ (88)  
 ʃmʔ ‘cloud over, become dark’ > UA \*(w)umaC / \*(w)imaC ‘rain, be cloudy / overcast’ (683)  
 ʃml / impfv: ya-ʃmalu ‘to do, work, take pains, exert oneself’ or \*yuʃmal > UA \*yuʔmal ‘tired’ (1267)  
 ʃmʃ (< ǧmǧ), impfv \*- ʃmuʃu ‘close eyes’ > UA \*mucu ‘close eyes’ (831)  
 ʃʔw ‘give, present to’ > UA \*utu (678)  
 ʃayn ‘eye’; ʃayyen ‘to eye, perceive, point out, show’ > Ktn ʔayn ‘show s.o. s.th.’ (1519-kw)  
 ʃeʃaa ‘advice’; \*na-ʃaʃa/e ‘to argue, quarrel’ > UA \*na-wisa / \*na-oca (> nooca) ‘speak’ (684)  
 ʃeʃem ‘bone’, pl ʃeʃaam-iim ‘bones’ > UA/Num \*cuhmi ‘bone’ (1476-kw)  
 ʃeʃem ‘bone’, pl ʃeʃaam-iim ‘bones’ (< \*ʃaʃm); Arabic ʃaʒm- ‘bone’ > UA/Azt \*omi / \*ohomī ‘bone’ (1477)  
 ʃiʃʃ / \*ʃidd ‘prickly shrubs, brambles’; Arabic ʃiddat ‘single prickly s.th.’ > \*wiCcaC ‘thorn, awl’ (1182)  
 ʃiʃʃ / \*ʃidd ‘prickly shrubs, brambles’; ʃiddat ‘single prickly s.th.’, pl: ʃiʃʃoot > \*wicu ‘prickly pair cactus’ (1182)  
 ʃaaqeb ‘heel, footprint’ > UA \*wakVpi ‘track’ (685-p)  
 ʃaaqeb ‘heel, footprint’ > UA \*woki ‘track, footprint’ (1197)  
 ʃaaqeb ‘heel, footprint’; yə-ʃaaqeb ‘to track down’ > UA \*yiki ‘make/follow tracks’ (1199-kw)  
 ʃqb ‘seize by the heel, deceive’; \*ʃooqeb ‘deceiver’ > UA \*wokab > Hp lölöqanw ‘bullsnake, gopher snake’ (1198-kw)  
 ʃuqaab ‘eagle’ > NUA/Tak \*yunaʔi ‘buzzard’ (953-kw)  
 ʃqr ‘uproot, weed, heal, be sterile’ > \*waki ‘dry, shrivel, thin’ (1380)  
 ʃqr ‘uproot, weed, heal’ > UA \*qaya/i ‘uproot, weed, clean, wash, heal’ (994-p)  
 ʃiqqaar ‘root’; Syriac ʃeqaar-aa ‘root, remedy-the’ > ʔa- of UA \*ʔa-kaw ‘root’ (948-kw)  
 ʃrb (< \*ǧrb) ‘become evening’; ʃereb / ʃaareb ‘evening’ > UA \*ari(b/w)a ‘late afternoon, evening’ (1442)  
 ʃerwaa ‘nakedness, genital area’ > UA \*wowa ‘vulva, vagina’ (686)  
 ʃaroʃer / ʃarʃaar ‘juniper tree’ > \*waʔwari > waori / awari ‘juniper’ (689)  
 ʃry / ʃrʔ / ʃaraa, impfv: ta-ʃra ‘to contain, hold’ > UA \*taʔa ‘bag, sack, put in container’ (1418)  
 ʃrq ‘flee, escape, shun, avoid’ > UA \*wayaq ‘go out (fast)’ (1515)  
 ʃuʃb- ‘grass, herbage, plants, pasture’ > \*(h)ukwi ‘grass’ (918-kw)  
 ʃsy, pfv: ʃaaʃaa ‘make, make (write) books, create’ > UA \*osa/i / \*oswa ‘paint, draw, write’ (679)  
 ʃsy, impfv: yaʃaʃe ‘make, make (write) books, create’ > UA \*yoʔosa ‘write, paper’ (680)  
**ǧ** (of proto-Semitic > ʃ in kw-Semitic, but > k in p-Semitic)  
 ǧazzaalat ‘spider’ for -koso of > UA \*tokoso ‘spider’ (1<sup>st</sup> morpheme likely \*tuk- ‘black’) (1455-p)  
 ǧayr- ‘other than, except, no, not, non-, un-’ > UA \*qay ‘no’ (690-p)  
 ǧpw / ǧpy, iǧpaa a(t) ‘slumber, nap’; impfv: ya-ǧpuw ‘to slumber, fall asleep’ > UA \*ippiwi / \*iCpiwi ‘sleep’ (1430)  
 ǧasala / ya-ǧsil(u) ‘to wash’ > UA \*kasi ‘wash’ (693-p)

rağiba ‘to desire, wish, want, crave’ > UA \*takuC ‘thirsty’ (691-p)  
şağura / şağira ‘be small, little, scanty, young, dwindle’ > UA \*cako ‘small’ (692-p)

## P

p’y ‘be comely’, \*pa’yuu ‘beauty, comeliness’ > Tr ba’ó- / ba’óre- / bayóre ‘beauty’ (1392)  
pa’r- ‘mouse’ > UA \*pa’i ‘mouse’ (578)  
pa’r- ‘mouse’ > UA \*pa’wiN ‘mouse’ (579-p)  
pgŕ ‘meet, attack, confront, assault’ > UA \*poŕo ‘hit, pound’ (952-kw)  
pŕl ‘be thick and soft or flaccid’ > Hp pöŕgala ‘thick (in size)’; Num pohon- ‘thick’ (1387)  
pagr-aa ‘corpse, body’ > UA \*pikya ‘skin, animal hide, flesh’ (1130-p)  
pgr ‘to cleave, break up’ II ‘to split, cleave’ > UA \*piŕa ‘grind’ (1304-kw)  
paddaan (\*paddoon) ‘plow, yoke of oxen’; Syriac paduuŕ ‘iron bar, club, mace, axe’ > UA \*poto ‘digging stick’ (1060)  
pww ‘spread, disperse, overflow’ > UA \*puca ‘blow’ (840-kw)  
pww ‘spread, disperse, overflow’ > UA \*puya ‘full’ (1520)  
pŕd (< \*pxd) and Akkadian paxaadu ‘be startled, tremble’ > Ktn pokat- ‘be frightened’; Numic \*-paka- ‘afraid’ (637-p)  
peŕer ‘firstborn’ < \*paŕr- > UA \*pa’ti / \*paCti’i ‘older sibling’ (837)  
pŕŕ ‘make broad, flat and spread wide’; paŕŕiŕ ‘forge-hammer’ > UA \*patta / \*pata ‘flat, level, smooth, slippery’ (1227)  
pakken / etpakkan ‘speak much, chatter, gossip’ > UA \*aNpaka- ‘talk’ (1151-p)  
pol ‘bean(s)’ > UA \*(ti-)pol ‘bean’ (847)  
plpl ‘sprinkle with blood’ (<\*palpil) > UA \*paiC / \*pap ‘blood, bleed’ (1449)  
pl’ ‘to be extraordinary, wonderful’ > UA \*palaw ‘pretty’ (714-p)  
plŕ ‘escape’, pl participle: poolŕiim > UA \*puCti ‘escape’ (793)  
plk ‘to be round’; Hebrew pelek ‘whirl of a spindle, circle’ > Hp pölä-ŕ-pi ‘round as a ball’ (1303)  
pny / panaa’y ‘turn, look’, participle poone > UA \*puni ‘turn, look, see’ (754)  
pny ‘turn, turn head, look’; \*-panniy ‘turn (something), direct’ > UA \*pani ‘pull, drag’ (1122)  
pny / \*-panniy ‘have s.o./s.th. turn or head in a direction’ > UA \*pana ‘put in’ (1123)  
pny / panaa-w ‘face-his, surface-its’ > UA \*pana ‘cheek, face’ (851)  
pny / paane ‘front, face, surface’, pl: \*paniim, panee’y- / \*panii’y ‘face, surface of’ > UA \*pani ‘on, on surface of’ (852)  
pny / bə-paney ‘on the surface of’ > UA/TrC bepán ‘on, on top of, over’ (1398-p)  
pant-aa ‘upper leather of a shoe, instead of the foot-the’ > UA/Num \*pacca / \*paNca ‘shoe’ (1281-p)  
pŕl ‘do, make, work’ > UA \*pu’ay / \*pu’al ‘do’ (825)  
pŕl ‘to do, make, accomplish, have an effect / influence on’ > Hp powa-ta ‘to cure, tame’ (1302)  
pŕl / poŕal ‘daily labor, deed, wage’; Hebrew pəŕullaa(t) ‘work, action, wage’ > UA \*puwal ‘count’ (1467)  
pŕm ‘step, pace, foot’, pŕm pŕm ‘step by step’ > puma- of Kw pumake’e ‘stomp in regular beat, beat (of heart)’ (902)  
pŕy / f.pfv: paŕyaa ‘inquire, seek’ > UA \*paya ‘call, summon’ (1067-p)  
papuke ‘owl’ > UA \*poko ‘burrowing owl’ (1361)  
paŕŕ / paŕaŕa ‘to open (eyes), to blossom’ > UA \*paka ‘open’; Ls páqa- ‘to sprout thru ground’; Ca púqi ‘bloom’ (1340)  
paŕŕ- ‘species of fungus’ > UA \*pakuwa ‘mushroom, fungus’ (676)  
pasada, impfv ya-psudu ‘go bad, rotten, decayed, putrid, spoiled’ > UA \*sora ‘rot, go to waste, throw away’ (1143)  
pŕŕ / \*pissex, pl: piŕx-iim ‘limping’ > UA \*pisika / \*pikka ‘bad, rotten, infected, limping’ (640-p)  
pŕŕ < \*psx, impfv \*-psax ‘limp’ > UA \*saki ‘limp’ (639-p)  
pŕl / paŕala / \*-pŕŕVI ‘skin, peel off (bark), strip layers’, pəŕaalaa ‘stripped (of sticks)’ > UA \*cala ‘bark, shell’ (841-kw)  
pŕl / paŕala / \*-pŕil ‘skin, peel off (bark), strip layers’ > UA \*cila ‘to shell, hatch out’ (842-kw)  
pŕl / bŕl ‘peel, strip’ > various UA forms (843-846)  
pŕŕ ‘wound, injure, bruise, squash, squeeze’ > UA \*pacu ‘squeeze, smash’ (1228)  
pŕŕ ‘break into pieces’ > UA \*pisa ‘pound’, Hp piŕiŕi-ta ‘be a continuous drumming or pounding sound’ (1095-p)  
pəraŕŕ (< \*prx) ‘to fly, depart, flutter, a blossom’ > UA \*piyaw ‘feather, to fly’ (1167-kw)  
prx ‘to flower’ (Egyptian); Hebrew hi-priiŕ (< \*hi-priix) ‘cause to sprout, bloom’ > UA \*hVpiNka ‘bloom’ (1500-p)  
pry / paraa ‘to bear young, to bear fruit’ > SP pia ‘mother, female’ (1298)  
prk ‘crush’ > SP puruqqwi ‘to break to pieces’ (1297)  
pəraŕŕ / \*paŕŕ-aa ‘hair’ > UA \*pi’wa ‘hair, hide, fur’ (1132)  
prŕŕ ‘jump’ / paŕŕoŕŕ ‘flea (jumper)’ > \*paŕ’osi / \*paŕo’osi ‘jackrabbit’ (724)  
prq / paraŕ ‘drag away, tear away’ > UA \*piyok ‘pull, drag’ (726-kw)  
prq ‘separate from, depart, go away’ > SUA \*pa’ku ‘out’ (1243-p)  
prq ‘separate from, depart, go away’ > \*piyaC / \*pi’aC ‘leave, save’ (1244)  
pŕŕ ‘spread out’; Syriac pəŕaŕ ‘stretch out, extend, spread out’ > Tr pesá ‘stretch, spread’ (1391)  
pty / pətaa / pəta / pətiy ‘be enlarged, wide, broad’ > UA \*pittiya / \*pit(t)i’a ‘(be) heavy’ (812)  
pətaa’aa / pətaawaa ‘wide, enlarged’ > UA \*patawa ‘wide’ (1168)  
pŕŕ ‘to open, open up’ > UA \*pitiwa ‘open, uncover’ (1169)

ptt, impfv stem: -pott ‘smash, make crumble’ > UA \*pot ‘pound, grind’ (815)

## Ş

şe’aa ‘dung, excrement’ (< \*şi’aa) > UA \*si’a ‘urine’ (739)

şe’aa ‘dung, excrement’ (< \*şi’aa) > UA \*sa’a ‘defecate’ (740)

şbb / şabba (< \*dabba) ‘take hold, keep under lock’ > UA \*cakwa / \*cakwi ‘catch, grasp, lock’ (8-kw)

şbb / şabb (< \*dabb) ‘lizard (< take hold)’ > UA \*cakwa ‘lizard’ (9-kw)

şbb ‘pour, gush, flow’; Arabic şabiib ‘poured out, blood, sweat’ > CN espipika ‘blood flow out’ (1450-p)

şbb / şabba (< \*şabba) ‘to pour, gush, flow, drip’ > UA \*cikwa ‘to drizzle, rain’ (1457)

şby / şəbii / şəvii ‘gazelle’ > Hp cöovi-wī ‘antelope’ (29-kw)

şb’ / şəbee ‘wish, prefer, be pleased with, delight in’ > UA \*supiC ‘like, want’ (901-p)

şibſ- ‘finger’ > UA \*siwa /WMU \*sipwa /Tep\*capiwa ‘finger’ (747-p)

şibſ- ‘finger’ > UA \*cipo ‘five’, \*cikwa ‘five’ (746-kw)

şbſ ‘to dye’; \*şboſ Arabic impfv ya-dbuğu ‘to dye’ > UA \*pu ‘dye’ (1438-p)

şbr / şabara ‘to tie, bind, condense (contain/restrict)’ > UA \*cokwiya > Tep soobid ‘head off’ (833)

sgy ‘be many, great’; \*hosgay ‘be made great’ > Hopi hoskaya ‘large, huge, enormous’ (1414)

şđ / şdi ‘grow rusty’ > UA \*siſta / \*siſti ‘red’ (1350)

şdq ‘be just, righteous’, şadooq ‘just, righteous’ > UA \*siroka ‘be sad, suffer’ (1145-p)

şhr ‘be bright, clear’; Arabic zhr ‘appear, arise’ > UA \*chiri / \*ci’ra/i ‘sunrise, east, morning’ (745-p)

şwd / syd ‘to hunt’; Hebrew şaad ‘hunter, (is) hunting’: Hebrew 3<sup>rd</sup> sg pfv şaad ‘hunt(ed)’ > TO şaad ‘to chase’ (732)

şwd / syd ‘to hunt’; şaduu ‘they hunted’ > Tr seru ‘aim, hunt’, seru-ame ‘(person who is) a good aim, hunter’ (733)

şwd / syd ‘to hunt’; şaad-iim / şaad-iin ‘hunters-pl’ > \*siſr ‘shoot, hunt’; Tep \*cilini ‘straight’ (736)

şayyaad ‘hunter’ > UA \*caya ‘follow’ (1104-kw)

mə-şuudat ‘net, prey’ i.e., game > UA \*masat / \*masot (< \*masuta) ‘deer’ (734)

\*muuşa(y)ad ‘game, what’s hunted’ > Hp cayri ‘elk’; Hp cayriſa ‘moose’; Hp mosayri / mosayir- ‘buffalo’ (735)

şwy / şawa ‘give charge to, command, order’ > UA \*sawi ‘command’ (731)

şwm ‘to fast’ (not eat) > UA \*suma ‘be hungry’ (1102)

şuus ‘bud, blossom, bloom’ > UA \*coya or \*coca ‘feather headdress’ (818)

şwr / şuur-aa ‘rock-the’ or Samaritan Aramaic şor-aa > UA \*soya ‘rock’ (605-p)

şjr ‘dry up, become yellow’ > UA \*sa’wa / \*sawari / \*sawiya ‘yellow’ (1164)

şlj ‘rush’ > UA \*coloa ‘flee, run swiftly’ (85)

şll ‘to tingle, quiver’ > UA \*cilili / \*silala ‘shake, rattle’ (31-kw)

şll ‘to become dark or black’; Arabic zll ‘be black’ > Tr čona ‘become dark / black’ (if -ll- > -n-) (1296)

şlſ / impfv: -şlVſ ‘limp, be lame’ > UA \*lo’i ‘lame, limp’ (1108)

şelaſ / şalſ- ‘rib’; Arabic dlſ ‘incline/lean, be crooked, limp’, Arabic dilſ- / dilaſ- ‘rib’

> UA \*cawa ‘rib’; UA/Hp/Ca caſa ‘side, limp, rib’; Azt silaſ ‘rib’ (744)

şmd ‘tie together’; Hebrew şummad ‘strapped on’: Aramaic şəmad ‘join, attach, harness’ > UA suma ‘tie s.th.’ (1186)

şmĥ / şaamaĥ (< Semitic \*damaxa) ‘sprout, grow’ > CN camawa ‘to grow, become big’ (814-kw)

şmĥ / yi-şmaĥ ‘sprout’ > UA \*icmo ‘sprout, grow’ (84-kw)

şmĥ / yi-şmaĥ (< \*ya-dmax) ‘sprout, grow’ > UA \*yama ‘sprout, grow, up’ (813-p)

şmĥ (< \*şmx) ‘sprout, grow (of plants, hair)’, şəmaĥ ‘what sprouts, grass, etc’ > UA \*samaC / \*samuC ‘grass’ (1090)

şmm (< \*dmm) \*dummu ‘close, compress (as lips)’ > UA \*cummu ‘close eyes’ (830-kw or p?)

şəmar ‘wool’ > UA \*comi / \*comya ‘hair’ (742-kw)

şinw- ‘one twin’, pl ašnaa ‘twins’ > UA \*cono’o ‘twin(s)’ (899)

şanawbar ‘stone pine’ (type of pine) > UA \*sanawap ‘pine tree’ (892)

şnn ‘be cold’; şinnaa ‘cold, n’ > Tb ciina-l ‘hail’ (1393)

şnſ ‘to be modest, humble, retiring’ > CN -cinoo ‘a verbal suffix of respect or love’ (1295)

şnp / şannep ‘wrap up, wind around’; şaaniip ‘headband, turban’ > UA \*cini ‘cotton, cloth(ing) made of cotton’ (1503)

şſy (< \*şgy) ‘stoop, bend, incline’ > UA \*cuwi ‘hunched over, on all fours, face down’ (694-kw)

şſq ‘shout, call / cry out’; şəſaaqaa ‘yelling, screaming, call for help’ > UA \*coaka ‘cry’ (86-kw)

şağura / şağira ‘be small, little, scanty, young, dwindle’ > UA \*cako ‘small’ (692-p)

şpy ‘keep watch, be on the look-out for’ > UA \*capan ‘look for’ (1504)

şpp / şapşep ‘chirp, peep, twitter, squeak’ > UA \*cap ‘to rattle’ (1441)

şppoor ‘bird, small bird’ > UA \*cipuri ‘bird’ (30-kw?)

şpr ‘to whistle, hiss, chirp’ > UA/Tep \*ciporika ‘whirlwind’ (1222)

ş<sup>3</sup>pardeaſ ‘frog’ > UA \*siboro ‘tadpole’ (1377-p)

ş<sup>3</sup>pardeaſ ‘frog’ > UA \*kwa’ro ‘frog’; \*haC ‘the’ encouraged cluster \*ha-şşpardVſ > kwa’ro ‘frog’ (1378-kw)

şar ‘enemy’ > UA/TrC/Num/Cr \*say- ‘enemy, opponent’ (1478)

şor ‘flint’; Akkadian şurru ‘obsidian, flint’ > SP čoiC ‘bead’ (1376)

sartaan / \*sarṭoon ‘scratcher, crab’ > \*saCtun > siCtun / \*suCtun ‘claw, nail, crab’ (832-p)  
 dirs ‘molar tooth’ (< Arabic ḍrs ‘to bite’) > UA \*cara ‘molar’ (1221)  
 šuršur / šuršuur / šaršuur ‘cricket’ > UA \*corcor ‘cricket’ (28-p)  
 šaaráfāt ‘skin disease, leprosy’ > CN siyo-tl ‘rash, scab, leprosy’ (67-kw)  
 širšaa ‘hornets’ > UA \*saŋa ‘yellowjacket, stinging one’ (737-p)  
 šrš (< \*drš) ‘be weak, lean, emaciated’, verbal nouns qarš, ḍuruuš > UA \*corowa / \*corwa > coŋo ‘be hungry’ (1066-p)  
 šrhj ‘cry, roar’ > UA \*cayaw ‘yell’ (83-kw)  
 šrhj ‘groan, cry out’ (< \*šrx) > UA \*isoroN- ‘snore’; UA \*sork (1299-p)

## q

qa’t-aa ‘pelican’ > UA \*koto / \*ko’ota ‘crane’ (1000-p)  
 qubbaa ‘dome, vault, tent’ > UA \*kuppa ‘head, hair of head’ (1098)  
 qbl, -qbiil ‘go forward’ > Hopi kwila- ‘take a step, to step forward’ (45-kw)  
 yiqqabeš / ya-qbiš ‘assemble, gather, meet’ > UA \*yīpisa ‘come’ (862-p)  
 qabbəš-i or (hit/yit)-qabbəšu ‘gather, meet’ > UA \*hapsi ‘arrive, reach, catch up to’ (863-p)  
 qbš (< qbd) / (ya)-qbiš(V) ‘seize, take, grab, collect’ > UA \*kwisV ‘take, carry, grasp’ (44-kw)  
 qbr ‘bury’ > UA \*kopor ‘dig’, \*kapa ‘(make) a hole’ (1016-p)  
 qbr ‘bury’, impfv: \*-qbor > UA \*kuy / kuC ‘bury’ (1017-kw)  
 qədaal ‘neck, nape of neck’ > UA \*kutaC ‘neck’ (1014)  
 qedem ‘in front, east’; qidmaa ‘(toward) east’ > UA \*kitam ‘south’ (kw-Sem qid > kit vs -d- > l ‘neck’ in p-Sem, 1166-kw)  
 qwl / qiila ‘was said’ > CN kil ‘it is said that ...’ (1001)  
 qawiin ‘strings’ > Ls \*qaawina- ‘bowstring’ (1251)  
 qəwaayaa ‘loom, web’ > Ca qaawi ‘get tied, hooked’ (1347)  
 qwl / qawl ‘speaking, word, speech, saying, verbal noun’ > Hp qawi ‘say, speak’ (1002)  
 qwm / qaam ‘rise, stand up’ > UA \*kam ‘water to rise, make wave’ (1210)  
 qooš-aa ‘throat’ > UA \*kuwiC ‘throat’ / \*ko’- ‘throat’ (962)  
 qəwušoot ‘locks (of hair)’ > UA \*woC ‘hair’ (993)  
 qaataan ‘small, young’ > UA \*kuci ‘child, girl’ (860-p)  
 qṭp, Syriac qəṭap ‘pick, gather, harvest’ > UA \*kitta ‘harvest, v’ (787)  
 qṭp, impfv: -qṭop ‘pick, gather, harvest’ > UA \*tupu ‘pick, gather’ (788)  
 qy’ / impfv \*qyo’ ‘to vomit’ (loss of -q- in cluster in \*ya-qyo’ or infinitive q’yo’ > UA \*yo’a ‘vomit’ (1205)  
 qiynaa ‘funeral song, dirge’, qonen ‘to begin singing a dirge’ > Hp kiyina ‘begin singing a song’ (958-p)  
 qiynaa ‘funeral song, dirge’ > Tak ɲinɲna ‘feel sorry for, be broken hearted, sad’ (942-kw)  
 qayis / qeys ‘summer’ > UA \*kuwis ‘summer’ (738-p)  
 qiir ‘wall, town’ > UA \*kiC ‘house’ (986)  
 qalb ‘heart, middle, center, core’ / \*qeleb? > Tak ɲilveɲilva’a-š ‘nook, corner’ (947-kw)  
 qll / qaliil ‘be small, insignificant, light’ > \*ali ‘little’ (982)  
 qalal ‘be small, contemptible’; \*qillal / -qallel ‘declare accursed, consider bad’ > UA \*’alal ‘bad, wrong’ (1217-kw)  
 qlš / qalaš ‘to sling, throw out (people from land)’ > Tak \*ɲalaw ‘throw out, reject, fall/throw in a hole’ (946-kw)  
 qlp ‘peel off, shell, rub away’ > UA \*kilipi ‘shell or shuck corn’ (717)  
 qlp ‘to peel, shell, scrape off, strip off’ > Hp hàapo(-k-) ‘get loosened, chipped’ (1010-kw?)  
 qimma(t) ‘top, summit, peak’ > UA \*kumisa ‘top, tuft, crest’ (1195-p)  
 qmṭ ‘draw together, lay hold of, take, contract, shrink, shrivel’ > Hp homi- ‘grab, shrink, draw together, shrivel’ (1009)  
 qmṭ ‘lay hold of, take’, participle qaamiṭ; Hebrew qmṭ ‘seize’ > Tb kamiič’it ‘to catch’ (1508)  
 qml ‘suffer from leanness, be thin’ > UA \*komal ‘griddle, thin’ (959-p)  
 qmš / impfv: \*ya-qmušu ‘take, be miserly, stingy’ > UA \*yamuC ‘angry, stingy’ (1035-p)  
 qn’ / impfv -qna’ ‘be jealous’ > UA \*nawa ‘jealous’ (1031-p)  
 qn’ / impfv -qna’ ‘be jealous’ > UA \*ɲa’i ‘get even, be jealous’ (1032-kw)  
 qn’ / qannaa ‘jealous one’ > Kw kinii-ga-di ‘one who is greedy or covetous’ (1033)  
 qanqin ‘to chant, sing’ > Tak \*ɲaɲi ‘cry’ (943-kw)  
 qanii- ‘acquire, buy’ > Tak \*ɲani / \*ɲina ‘pay’ (945-kw)  
 qaaneh ‘reed, stalk’ > UA \*pa-kaN ‘reed’ (1135-p)  
 qaaneh ‘reed, stalk’ > UA \*kana ‘willow’ (1216)  
 qnwqn(h/t’) ‘grape vine creeper’ > UA \*kunuki ‘elderberry’ (1049)  
 qašda ‘sitting, backside, buttocks’ > Hp kīri ‘buttocks’ (1383)  
 qšuuul-aa ‘expansive as the lungs’ > UA \*qoqolVpe ‘lungs’ (1385)  
 qippaa’oon ‘sharp frost’ (< qp’ ‘to congeal, become rigid’) > UA \*kīpa ‘snow, ice’ (1161)  
 qippod (< \*qunpuḍ) / quuppaad / quppəd-aa ‘hedgheg-the’ > UA \*kīNpa ‘prairie dog’ (1089)  
 qpd ‘draw together’, qapped ‘roll up, curled up’ > UA \*qappit ‘break (by bending)’ (1381)



qpd ‘draw together’, et-qapped ‘be shortened, cut off, shrunk’ > UA \*qappoc ‘short’ (1382)  
 quppat, pl \*quuppoot ‘large basket(s)’ > UA \*koppot ‘basket’ (864-p)  
 qippoz ‘arrowsnake’ > Tr aposini ‘venomous serpent’ (972)  
 qpy / qəpa ‘collect, swim on the surface’ > UA \*qoppV ‘mark/stripe, float’ (1163-p)  
 qaašiir ‘branch(es)’ > UA \*kusi ‘wood’ (963-p)  
 qsr ‘to reap, harvest’; qaašiir ‘harvest, n’ > Wr kacuri ‘a kind of sweet corn’ (1006-kw)  
 qr’ / qara’a ‘call, cry out’ > UA/Azt/TrC \*koyowa ‘yell, shout’ (580-p?)  
 qr’ / qara’a ‘call, cry out’ > UA/NUA \*aya ‘call’ (990-kw)  
 ni-qra’ ‘he/it is called/named’ > UA \*nihya ‘call, name’ (991-kw)  
 qr’ / qara’a ‘call, cry out’ > some UA suspects at 992  
 qr’ / qara’a ‘call, cry out’; many Semitic bird words from this root > UA/Num/Hp \*kuyuC / kuyuñV ‘turkey’ (1357)  
 qéreb ‘inward part, midst’ > UA/Tep \*’irapa ‘inside’ (975-kw)  
 qarob ‘near’ > Tr ayobe ‘soon, near in time’ (976-kw)  
 qariib ‘near’ > UA \*alip ‘soon’ (977-kw)  
 qrb ‘approach, be near’, qariib ‘near’, Syriac qərib ‘come near, draw nigh’ > Hp hayiñw- ‘draw near’ (1008-kw)  
 qrb ‘approach, be near’ > Ls ḡááya ‘be close, be near’ (1489-kw)  
 qardammu ‘enemy, opponent’ (Akkadian) > UA \*tīmmu ‘opponent’ (593-kw)  
 qarduun-aa ‘louse-the, nit-the’ > UA \*aCtīN ‘louse’ (971-kw)  
 qrh ‘freeze’, qeraḥ ‘ice, frost, crystal’; Syriac quur-aa ‘cold, frost-the’ > Tr koro-čé ‘freeze (of water)’ (1493)  
 qeren / qarn- ‘horn’ > CN koyooniaa ‘perforate’ (964)  
 qeren / qarn- ‘horn, corner, tip’ > SP yīnni ‘crown of the head’ (998-kw)  
 qarsol ‘ankle’ > UA \*kwincō ‘ankle’ (858-p)  
 qursəl-aa ‘ankle bone-the’; Akkadian kursinnu ‘region of the ankle-bone’ > UA \*koci ‘ankle(bone)’ (859-p)  
 qar’ ‘rip/tear to pieces’, impfv -qraḥ > UA \*kowV ‘to tear’ (965)  
 qarḥ- ‘gourd, pumpkin’ > UA \*kuyawi ‘gourd’ (987-p)  
 qarḥ- ‘gourd, pumpkin’ > UA \*ayaw ‘squash’ (988-kw)  
 qarḥ- ‘gourd, pumpkin’ > UA \*ayaC / \*ayoC ‘turtle’ (989-kw)  
 qarḥ ‘bite’ > UA \*ki’ca ‘bite’ (1447)  
 qarqadaan ‘squirrel’ > UA \*koñi ‘squirrel’ (957-p)  
 ’etqaraš ‘to shade, put in the shade’ > UA \*hikka / \*hikya ‘shade’ (1220)  
 qašwaa ‘jar, basket, f’; Hebrew pl: qəšoot > TO gihot ‘carrying basket’ (1005)  
 qšt’ ‘divide, measure’; qəšiiṭaa ‘coin, weight, money’; qešt-aa ‘measure-the’ > UA \*koCta/i ‘bark, shell, money’ (1248)  
 qšt’ ‘divide, measure’; qəšiiṭaa ‘coin, weight, money’; qešt-aa ‘measure-the’ > UA \*pa-koCci ‘shrimp’ (1249)  
 qš’ / qšy / qəšaa ‘difficult, severe, strong (of smell), harsh (of taste)’ > UA \*kisa ‘sour, harm(ed), bad’ (861-p)  
 qšb / qšeebuu ‘perk up (ears), listen’ > UA \*kīpu ‘hear’ (1068)  
 qšb / qšeebuu ‘perk up (ears), listen’, \*na-qšab ‘what is perked up’ > UA \*naqa / \*nakap / \*nakas ‘ear, leaf’ (1070-71)  
 qšr ‘to peel, shell, derind, debark, skin, husk’, f. impfv ta-qšir > UA \*asi’a ‘bark, peel, shell, n’ (1272)  
 qšš ‘be old, dried up’; qaš ‘straw, stubble, chaff’ > CN košon-ki ‘dry, crush’, CN košoni ‘resonate’ (1004)  
 qušt-aa ‘bow-the’ > UA \*kuCta-pi ‘bow’ (967-p)  
 p’y-qušt ‘his-bow’ > UA \*pikoti ‘bow, bowstring’ (968-p)  
 qašt-o ‘bow-his’ > Tepiman \*gaato ‘bow’ (970)  
 qaššet ‘shoot an arrow with a bow’ > UA \*kwaCti ‘shoot (arrow)’ (1184)  
 qaššet ‘shoot an arrow with a bow’ > UA \*kuCkwiC ‘shoot (arrow)’ (1185)  
 qešet, qašt- ‘bow, weapon’ > UA \*aCta ‘atlatl, bow’ (969-kw)  
 qatqet ‘burst out laughing, laugh loudly’ > UA \*kasi ‘laugh’ (1386-p?)

## R

r’y / raa’aa ‘see’ > UA \*tīwa ‘find, see’ (600-p)  
 r’y / raa’aa ‘see’, ro’eh ‘seer’ > UA \*tī’a ‘have a vision or supernatural power’ (1139)  
 r’y / raa’aa ‘see’, ro’eh ‘seer’ > UA \*tīwi ‘deity, spirit, seer of supernatural means’ (1140-p)  
 r’y / raa’aa ‘see’; ra’oot(-aa) ‘seeing (it), to see (it), infinitive/ verbal noun (w/ object suffix)’ > UA \*ta’uta ‘find’ (100)  
 r’y / raa’aa ‘see’; \*na-r’ey ‘be seen, appear’ > UA \*ni(r) / \*ni(r/y)’i ‘see’ (1269)  
 r’y / raa’aa ‘see’ > Wr re’é ‘appear, be seen’ (1406)  
 ra’emaan-aa / reemaan-aa ‘antelope-the’ > UA \*tīmina ‘antelope’ (604)  
 rooš ‘head’; Arabic ra’s- ‘head’ > UA \*toci ‘head’ (93)  
 raa’taa / raataa ‘lung(s), n.f.’ > Cr ta’atime ‘lungs’ (1428)  
 rab ‘great, large, many’ > UA \*tipi / \*tapu ‘long, tall’ (97)  
 rbb / \*rabba ‘shoot (an arrow)’ > UA \*tikwa ‘hit by striking or throwing, shoot (arrow)’ (95-kw)  
 rby / raabaa ‘shoot (bow and arrow)’ > UA \*tapa / \*tapi ‘throw, hit’ (96)

rby / raabaa 'shoot (bow and arrow)' > UA \*tap 'put' (1128)  
 rbs 'lie down (often of animals)'; rebeş / rabaş 'resting place' > UA \*tosa / \*ta'so / \*tapa'sol 'nest' (1242-p)  
 rbs > Aramaic -rbaš 'lie down' (impfv stem) > UA \*po'o / po'i 'be lying down' (1277-p)  
 rgl 'come or go on foot, step, step forward' > Tb tañammin 'step on, vt'; Tr feke(ta) 'step' (1364)  
 ragul 'man' > UA \*tihoyi 'man, attractive' (1240-kw)  
 régaš 'a moment, in a moment, a short while' > Tr teko 'soon, in a short time, quickly' (602)  
 rdm, inf: rədom 'to sleep' > Tb culuumat 'to sleep' (1415)  
 ha-ruuḥ 'spirit'; Arabic riḥ 'wind, smell, odor'; ruuḥ 'soul, spirit' > UA \*arewa 'spirit' (1170)  
 rwh / rawah 'go away (in the evening) to rest' > Sr rīwīrīwīh-q 'disappear' (1427)  
 rwy 'drink, quench', rawwaay-aa 'drunken one-the'; \*rawwaan-aa 'drunk one-the' > UA \*tawana 'drunk' (601)  
 rwy 'drink, quench', hirwaa / hirvaa, hirvee- 'to water (person or thing)' > \*hiCpi / \*hi'pa / \*hiypi 'drink' (1061)  
 rws 'run' > UA \*tuca 'run, hurry s.th. along' (741-kw)  
 raahjeel (< \*raxel) 'ewe' > UA \*tikiya (> tihya) 'deer' (638/1083-p)  
 rhl 'to set out, emigrate, V to wander, roam' > Tb tooiy 'to travel about' (1294)  
 rhm 'be loving, compassionate, wide' > UA \*tiha 'feel pity for, space, room' (1485)  
 rhq / me-rəḥoq / me-rḥoq 'far, from afar' > \*miCka / \*miḥka 'far' (821)  
 rḥs (< \*rxḏ) 'wash' (though Egyptian rxt 'wash' would match as well) > UA \*-tiki 'wash' (766-p)  
 rymh (= riimaa) / riimə-taa 'large stone-the' > UA \*tīmī-ta 'rock' (603)  
 rkb / rakb-uu 'they mounted, climbed' > UA \*ti'pu 'climb up' (< rakb-uu) (99-p)  
 rkb / rakb-uu-hi 'they climbed it' (Syriac) > UA \*ciCpuhi 'climb' (< rakb-uu-hi) (99-p)  
 rkb 'mount, climb up on' > CN tlakpa-k 'above, on top' (887-p)  
 rkb 'mount, climb up on' > UA \*cippih 'prairie dog' (what rVkbi > tikpi > tippi > cippi (888-p)  
 rkb 'mount, climb up on', rikb-aa 'upper millstone-the' > UA \*tippa 'mortar (and/or) pestle' (889-p)  
 rkl / rukla (less likely rukbat / rokba 'knee') > UA \*toṇa 'knee' (1468-kw)  
 rkl / rakla, impfv: ta-rkulu 'kick' > UA \*taṇa 'kick' / \*ciṇi 'kick' (1507)  
 rmy / ramaa 'throw, cast' > UA \*rima / \*lima 'throw out' (1426)  
 ruumš-aa 'evening-the' > Sr \*ruma- 'become dark' (1283-p)  
 rnn / ranna 'cry, ring, echo, resound' > Hopi tōna 'voice, trachea' (1444)  
 raqbubit 'moth' > UA \*(V)kupīpika 'butterfly' (1054)  
 raqqa 'be thin, fine, delicate': Arabic rakiik 'weak, thin' > UA \*takki 'thin' (894)  
 roq 'spittle'; rqq / -roq/ruqqu 'to spit'; ruqq-aa 'spittle-the' > UA \*cukV 'spit, v' (1171)  
 rŷy / impfv: \*ya-rŷay 'to graze, to tend (a flock of animals)' > Hopi layi 'herd, drive (animals)' (1358)  
 rŷm 'to rage, roar, thunder' > UA \*to'om- / tom'mu 'make a big noise, thunder' (1341)  
 raḡiba 'to desire, wish, want, crave' > UA \*takuC 'thirsty' (691-p)  
 rp' / raapaa 'to heal'; \*yurpa ' (be caused to) be healed' > UA \*yowa / \*yopa 'cure' (1235)  
 rp' / raapaa 'to heal'; hit-rappe' (m) / hit-rapp'aa (f) 'have oneself healed' > UA \*hitowa 'medicine' (1236)  
 rp' / raapaa 'to heal'; \*roop'-aa 'healer-the' > UA \*toṇa 'cure, to doctor s.o.' (1237)  
 rḡḡ 'beat, stamp, spread out'; raaqii'ḡḡ 'expanse, sky' > UA \*tukuN- 'sky, up, above' (98)  
 ršš 'act wickedly, be guilty' > UA \*tasawa 'be/do bad' (94)  
 rth 'seethe, be / grow hot'; compounded w/ xut 'fire': \*xut-rVtVḥ > UA/Num \*kuttutu 'hot' (1481)  
 Š  
 šə'or 'sour (leavened) dough'; Aramaic sii'uur / sy'wr 'fermentation, leaven' > UA \*cipuC 'bitter' (1461)  
 šyb 'be grey-headed, old'; Hebrew šeebaa 'grey hair, advanced age' > UA \*siu 'grey'; ahseba 'be x years old' (1292)  
 šyh / šiiḥ 'grow (of plants), growth, vegetation' > UA \*siwi / \*siyo 'green, greenery, foliage' (1096)  
 šyh / šiiḥ 'grow (of plants), shrub, growth' > NUA \*si'aC 'grow, blossom'; SUA \*siwa / siwa 'flower' (1229)  
 hiškiil, hiškāl- 'understand, make wise, insightful' > CN iskalia 'be discreet, prudent' (1293)  
 šəlaaw / salway 'quail'; Samaritan šalwi; Hebrew pl: šalwiim 'quail' > UA \*solwi 'quail' (1082)  
 šaameḥ 'happy'; šimḥaa / šimḥat 'joy, gladness' > UA \*sim 'laugh, smile' (807)  
 šimlaa / šimla-t 'wrapper, mantle, cloak' > \*sam'aC 'to spread, v, a cover, rug, blanket, n' (764)  
 šn 'to hate'; \*šanna 'enemy, one who hates' > UA \*sinawa 'get angry, coyote, wolf' (756-p)  
 šeeḡaar 'hair'; Arabic šaḡr / šaḡar 'hair, pelt' > UA \*suwi 'body hair' (89)  
 šeeḡaar 'hair'; Arabic šaḡr / šaḡar 'hair, pelt' > UA \*suwi 'jackrabbit' (1245)  
 šaapaa(t) 'lip' > UA \*sapala (< \*sapata) 'lip' (563)  
 šaapaa(t) 'lip', pl: šapoot 'lips', s'pootey 'lips of' > UA \*puti 'lip' (564)  
 šaapaa(t) 'lip, speech, edge, shore (of sea), bank (of river)' > UA \*capa- 'ridge, edge' (1462)  
 šaapaa(t) 'lip, speech, edge, shore (of sea), bank (of river)' > UA \*sap / \*sīp 'side' (1463)  
 šqr 'be fair complexion, blond, blondness, redness, fire color' > Hopi sikya- 'yellow' (1405)  
 šrp 'to burn completely'; Hebrew šərepa(t) 'fire' > UA/Tep/Wr \*saypa / \*saya 'to burn' (730)

## Š

- š'l 'ask' > UA \*sī'wī 'ask for' (758-p)  
 š'p 'pant, gasp for air' > HN šošopaaka 'make an inhaling noise' (1052)  
 šə'er 'flesh, meat' > UA \*sure'e 'blood' (882)  
 šibbólet 'ear of grain'; Arabic sunbul 'ear, spike (of grain)' > \*suŋu 'corn' (828-kw)  
 šibbeš, šibbaš- 'to weave patterns' > SP sikwa'a 'to braid' (748-kw)  
 šabber 'break, break in pieces' > UA \*sakway 'break, ruin' (10-kw)  
 šgĥ 'to look, to care for, mind' > UA \*(i)soko 'look' (1152)  
 šagni 'remove from its place, alter, transform, change clothing' > Hopi siiji 'peel, shed skin (as of a snake)' (1419)  
 šgŋ 'be raging, mad' > CN šiikooa 'be angry, jealous, displeased' (1289)  
 šigr-aa 'drain, ditch, gutter-the' > Hp sikya 'small valley, ravine, canyon with sloped sides' (1403-p)  
 šdd 'to be firm, solid, hard, strong' > UA \*sīCī / \*sīī 'strong': Sh sīttawītti 'strong, muscular' (1261)  
 šwb / šuub 'turn back, return' > Tb šiīub 'back again' (1053)  
 šwg, Aramaic aqtel: ašīig 'wash' > UA \*asi / \*asi 'bathe, wash' (1443)  
 šwp 'to smooth, rub, polish, sharpen' (Aramaic); Syriac šwp 'to rub' > Ktn šuvi 'to rub clothes' (1510)  
 šuušaan / šoošanaa(t) 'lily'; Coptic šošen > UA \*soci 'flower' (1230)  
 -škab 'lie down' > UA \*hapi 'lie down' (983)  
 škem 'shoulder'; Samaritan šekam 'shoulder' > UA \*sīka / sīkuN 'shoulder, arm' (56)  
 škr 'be drunk'; šikkoor 'drunken' > UA/Tep \*sikuri 'peyote, intoxicat-ed/ing' (58)  
 šakuur 'drunk' or šikkoor 'drunk' > UA/TrC \*kuru 'mescal, agave' (59)  
 Arabic muskir 'alcoholic beverage'; unattested \*ma-škar / \*mi-škar > CN meškal-li 'mezcal, alcoholic drink' (60)  
 Arabic muskir 'alcoholic beverage'; unattested \*ma-škar / \*mi-škar > UA \*maC(C)i / \*mahī 'agave, mescal' (61)  
 p' -šikur 'the-drink' > UA \*packo' or 'sp. of prickly pear' (836)  
 šeleg 'snow' (< \*θalg) > UA \*sīk: CN sek-tli 'snow, ice' (760)  
 tašleeg 'it is snowing' (hiqtil impfv) > UA \*ta'asiC 'freeze' (1336)  
 šlh 'stretch out, send, make water flow' > UA various terms meaning 'servant, pour, ear of corn' (761-763)  
 šlk 'throw, throw away, be thrown to the earth' > UA \*sik 'beat, throw (with power, furry)' (1263)  
 šilaaš 'weasel' > UA \*sīsika 'weasel' (1211)  
 šmr 'keep, watch over, have charge of, restrain (within bounds)' > UA \*summay / sumiya 'think about' (1181)  
 šŋyn- / šəŋiin-aa 'mud-the' > UA \*pa-sakwinaC 'mud' (1226)  
 šŋŋ / šŋŋŋ 'delight in'; Syriac šŋy / s'wa' 'delight, gladden, enjoy' > UA \*ta-soa 'love, value' (1208)  
 šipĥaa 'maid' > \*siwa / \*si(ŋ)wa 'female, girl, sister, daughter' (757)  
 šippaa 'to make smooth' > UA \*sippa 'scrape, shave' (1339)  
 špl 'be low, fall' > TO šopol 'short' (759)  
 šaaq-aa 'leg, branch, stem, stock'; Hebrew šooq 'thigh' > UA \*co(k' )i / \*cuC-ki 'trunk, base, stem, stalk' (1253)  
 šql take, take (self away), depart' > UA \*saka(la) 'go, leave' (1086)  
 šiqma(t) 'sycamore tree' > UA \*siŋĥa(C) 'cottonwood or aspen' (1012)  
 šqp 'look down on, seize, confiscate hold firmly' > Hp sokopi 'steal, (child) get to stage to hold onto things' (966)  
 šor 'navel, navel cord'; Arabic surr 'navel cord' > Sr suur 'navel' (1138)  
 šrg / šrq 'slip, slide'; or šrf / zlq 'slip, slide, glide' > NUA/Tr \*siro 'slide, slip', CN -l- (1250)  
 šrd 'to quake, be terrified' > Ktn šariri' 'trembling' (1511)  
 šrq 'to whistle, hiss'; wayyišroq-uu 'they whistled, hissed' > UA \*wisuko 'whistle' (1215)

## T

- tə'unaa 'fig' > UA \*cuna 'fig' (817)  
 təbuu'at 'produce, yield from the land, what comes in (of harvest, to be stored)' > UA \*tīpi'at 'pine nut' (74)  
 tebel 'firm (dry) land'; Assyrian taabal 'land' > UA \*tīpaC / \*tīpal 'earth' (75)  
 tbf 'follow, trail, observe' > Tr tibú- 'watch, take care of' (1327)  
 tiigaar-(aa) 'vessel-(the)', Canaanite sound shift \*tiigoor > UA \*tīko-(ri) 'dish' (1125)  
 Aramaic tehwe 'you are, sg' > UA \*tī / \*tīhwa 'you, sg' (111)  
 twh, pfv: taah(a) 'be alarmed, startled' > Sr \*tahitahi' 'hurry up' (1366)  
 taxt-e 'under-him/it' or taxta 'under' > Wr te're 'down on the ground' (1389-p)  
 bə-taxat 'at-under' > UA \*pitaha 'under' (1390-p)  
 took 'midst, middle, among, in the middle of, during' > UA \*tok 'with, near, middle' (1413)  
 tkk 'squeeze, press, twist, twine'; tikk-aa 'twisted cord, ring, chain' w/ Egyptian -pu > UA \*tikapu 'rope, thread' (1146)  
 tiklaa 'purple-blue, violet' > UA \*tī'kaC 'red pigment' (1134)  
 talg-aa 'snow-the' > UA \*takka 'snow' (1276-p)  
 toolaaŋ 'crimson, scarlet' > \*tula / \*tulo 'charcoal, embers, black' (710)  
 tly 'hang'; \*yutla 'be hung' > UA \*yula 'hang' (1247)

tmh, Aramaic t̄mah ‘be astounded, speechless, freeze with fear’ > Tb tehmat ‘be silent’; Ktn t̄hmī-k ‘be afraid’ (750)  
 tmh, impfv: -tmah ‘be astounded, freeze with fear’ -tmah > UA \*maha- ‘fear’ (749)  
 tmm ‘be completed, finished, come to an end’ > UA \*tama/i ‘finish’ (819)  
 tmm / tamma ‘be finished, come to an end’ > UA \*tuma / \*tu’ma ‘finish’ (820)  
 t̄muuraa ‘exchange, substitution’; ha-t̄muuraa ‘what is exchanged, exchanging’ > Num \*t̄mīri ‘buy, trade’ (1201)  
 Aramaic tuumr-aa ‘palm-the, date-palm-the’ > UA \*tu’ya ‘palm tree, sp’ (743-p)  
 Aramaic tanni’ ‘relate, tell’ > UA \*t̄ini ‘tell, teach’ (1148)  
 taapel ‘whitewash’; Aramaic t̄apel-aa ‘paste, plaster, coating-the’ > UA \*t̄ipi- ‘white clay’ (54)  
 tuup-aa ‘spittle-the’ > UA \*cupa / \*top ‘spit, vi’ (1252)  
 tpr / tapper < \*tappir ‘sew together’ > UA \*tappiCta ‘tie’ (1264)  
 tpr / tuppar ‘sown’ > tuppa ‘tie(d)’ (1265)  
 tpr / -tpor ‘sow together’ > UA/Tep/TrC \*pura/i ‘tie’ (1266)  
 Hebrew tiqqen ‘make straight, straighten s.th.’ > Ktn t̄ijen ‘straighten arrows’ (944-kw)  
 Aramaic tqn ‘set, lay’ > UA \*tikaC ‘put lying down, stretched/spread flat’ (1023-p)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > UA \*takowa / \*takawa ‘injure(d), damage(d), ruin’ (1469-p)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > UA \*tokowa / \*takawa ‘crow, cackle, make noise’ (1471-p)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > Ktn t̄i’ḡ- t̄i’ḡ-k ‘drive in a stake or nail’ (1470-kw)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > UA \*tikowa ‘lord, master’ (1472-p)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > UA \*MaC-takowa ‘palm of the hand’ (1473-p)  
 tq̄ṣ ‘drive (peg, stake), thrust in (weapon), blow a horn’ > UA \* takkuwa ‘meat’ (1474-p)  
 tq̄p / \*taqipa (sg), \*taqipuu (pl) ‘prevail, overpower’ > UA \*takipa / \*takipu ‘push’ (769)  
 tq̄p ‘prevail, overpower’, t̄aqoop ‘might, strength’ > UA \*takopi ‘gamble’ (1080)  
 tq̄p, impfv: -tq̄ap ‘prevail, overpower’, t̄aqoop ‘might, strength’ > UA \*kopi ‘win/lose in a game’ (1081)  
 toor ‘turtle-dove’ > SUA \*tori ‘domestic bird’ (725)