

Table 1: Examples of the plural of paucity with afoEul pattern (أَفْعُل) case.

Case ID	Singular				Plural of paucity			
	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern
1.1	nahor	نَهْر	river	faEol	>anohur	أَنْهَر	rivers	afoEul
	bahor	بَحْر	sea	faEol	>abohur	أَبْحَر	seas	afoEul
	nafos	نَفْس	self	faEol	>anofus	أَنْفُس	selves	afoEul
1.2	Eayon	عَيْن	eye	faEol	>aEoyun	أَعْيُن	eyes	afoEul
	vawob	ثَوْب	dress	faEol	>avowub	أَثْوَب	dressses	afoEul
	sayof	سَيْف	sword	faEol	>asoyuf	أَسَيِّف	swords	afoEul
1.3	wajoh	وَجْه	face	faEol	>awojuh	أَوُجْه	faces	afoEul
1.4	kaf~	كَفَّ	palm	faE~	>akuf~	أَكْفُ	palms	afoEul
	Dab~	ضَبَّ	lizard	faE~	>aDub~	أَضْبُ	lizards	afoEul
1.5	*iraAE	ذِرَاع	arm	fiEaAl	>a*oruE	أَذْرُع	arms	afoEul
	yamiyn	يَمِين	right	faEiyl	>ayomun	أَيْمُن	rights	afoEul
	Eamuwd	عمود	pillar	faEuwl	>aEomud	أَعْمَد	pillars	afoEul

Table 2: Example of Plural of paucity with afoEaAl pattern (أفعال) – Tripartite but not measure by pattern afoEul (أفعل) case.

Case ID	Singular				Plural of paucity			
	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern
2.1.1	waqot	وقت	time	faEol	>awoqaAt	أوقات	Times	afoEaAl
	wazon	وزن	weight	faEol	>awozaAn	أزمان	weights	afoEaAl
2.1.2	Eam~	عم	Uncle	faE~	>aEomaAm	أعمام	Uncles	afoEaAl
	jad~	جدّ	Grandpa	faE~	>ajodaAd	أجداد	Grandpas	afoEaAl
	hay~	حيّ	Neighborhood	faE~	>ahoyaA'	أحياء	Neighborhoods	afoEaAl
2.1.3	baAb	باب	Door	faEAl	>abowaAb	أبواب	Doors	afoEaAl
	TaAl	طال	Long	faEAl	>atowaAl	أطوال	Longs	afoEaAl
	diyn	دين	Religion	faEAl	>adoyaAn	أديان	Religions	afoEaAl
2.1.4	vuqol	ثقل	Weight	fuEul	>avoqaAl	أثقال	Weights	afoEaAl
	Sanam	صنم	Fetish	faEal	>asonaAm	أصنام	Fetishes	afoEaAl
	Einab	عنب	Grape	fiEal	>aEonaAb	أعناب	Grapes	afoEaAl

Table 3: Examples of Plural of paucity with afoEaAl pattern (أفعال) - The quadrilateral noun where the letter before the end is a madda case.

Case ID	Singular				Plural of paucity			
	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern
2.2	Yatiym	يتيم	Orphan	faEiyl	>ayotaAm	أيتام	Orphans	afoEaAl
	jawaAd	جواد	Steed	faEaAl	>ajowaAd	أجواد	Steeds	afoEaAl
	\$ahiyd	شهيد	Martyr	faEiyl	>a\$ohaAd	أشهاد	Martyrs	afoEaAl

Table 4: Examples of quadrilateral nouns where the letter before the end is a madda case

Case ID	Singular				Plural of paucity			
	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern
3	taEaAm	طعام	food	faEaAl	>atoEimap	أَطْعَمَة	foods	afoEilap
	guraAb	غُرَاب	crow	foEaAl	>agoribap	أَغْرِبَة	crows	afoEilap
	ragiyf	رَغِيف	loaf	faEiyl	>arogifap	أَرْغَفَة	loaves	afoEilap
	Eamuwd	عمود	pillar	faEuwl	>aEomidap	أَعْمِدَة	pillars	afoEilap
	fu&aAd	فُؤَاد	heart	foEaAl	>af}idap	أَفْئِدَة	hearts	afoEilap
	silaAH	سِلَاح	weapon	fiEaAl	>asliHap	أَسْلِحَة	weapons	afoEilap

Table 5: Examples of the plural of paucity with fiEolap pattern (فُعْلَة) case.

Case ID	Singular				Plural of paucity			
	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern	word using Buckwalter transliteration	Word in Arabic	Word in English	Word pattern
4	fataY	فَتَى	Boy	faEal	fitoyap	فُتَيَة	Boys	fiEolap
	gulaAm	غُلَام	Child	fuEaAl	gilomap	غُلَمَة	Children	fiEolap
	jaAr	جَار	Neighbor	faEal	jjiyrap	جِيرَة	Neighbors	fiEolap

Table 6: Testing of the plural of paucity examples with 4 morphological analyzers. Where the values in Gender are M for masculine, F for feminine and NA for not available ; the values in Number are S for singular, P for Plural, and NA for not available ; the value in POS are N for Noun, ADJ for adjective, and NA for not available. PP-related means if the tool identify the particular word as a plural of paucity (PP) or not (NA) for not available.

EXAMPLES			Tools																	
Plural of Paucity	Word Pattern	Case ID	AlKhalil 2				FARASA				MADAMIRA				CALIMA _{star}					
			Gender	Number	POS	PP-related	Gender	Number	POS	PP-related	Gender	Number	POS	PP-related	Gender	Number	POS	PP-related		
1.1	afoEul	أَنْهَر	NA	NA	NA	NA	F	P	N	NA	NA	NA	NA	NA	M	P	N	NA		
		أَنْخَر	M	P	N	NA	NA	NA	NA	NA	M	S	N	NA	M	P	N	NA		
		أَنْفَسَ	F/ M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
1.2		أَعْيَنَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
أَثُوبَ		NA	NA	NA	NA	F	P	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
أَسْنِيفَ		NA	NA	NA	NA	M	S	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA		
1.3		أَوْجَهَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
1.4		أَكْفَ	F	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
1.5		أَضْبَ	NA	NA	NA	NA	M	S	N	NA	M	S	N	NA	M	P	N	NA		
		أَذْرَعَ	F	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
2.1.1	afoEaAl	أَيْمَنَ	NA	NA	NA	NA	M	P	N	NA	M	S	N	NA	M	P	N	NA		
		أَعْمَدَ	NA	NA	NA	NA	F	P	N	NA	NA	NA	NA	NA	NA	NA	NA	NA		
		2.1.2	أَوْقَاتَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
		أَزْمَانَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
		2.1.3	أَعْمَامَ	M	P	N	NA	F	P	N	NA	NA	NA	NA	NA	NA	NA	NA	NA	
			أَجْدَادَ	M	P	N	NA	M	P	N	NA	M	S	N	NA	M	P	N	NA	
		2.1.4	أَحْيَاءَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
			أَبْوَابَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
		2.2	أَطْوَالَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
			أَدْيَانَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
			أَثْقَالَ	M	P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA	
			أَصْنَامَ	M	P	N	NA	M	P	N	NA	M	S	N	NA	M	P	N	NA	
أَعْنَابَ	M		P	N	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA			
أَيْتَامَ	M		P	N	NA	M	P	N	NA	M	S	N	NA	M	P	N	NA			
3	afoEilap	أَجْوَادَ	NA	NA	NA	NA	F	P	N	NA	M	S	AD J	NA	M	P	AD J	NA		
		أَشْهَادَ	NA	NA	NA	NA	F	P	N	NA	M	S	N	NA	M	P	N	NA		
		4	fiEolap	أَطْعِمَةَ	M	P	N	NA	F	P	N	NA	F	S	N	NA	M	P	N	NA
				أَغْرِبَةَ	NA	NA	NA	NA	F	S	N	NA	F	S	N	NA	M	P	N	NA
				أَزْغِفَةَ	M	P	N	NA	F	S	N	NA	F	S	N	NA	M	P	N	NA
				أَعْمَدَةَ	M	P	N	NA	F	P	N	NA	F	S	N	NA	M	P	N	NA
أَفْنَدَةَ	M			P	N	NA	F	S	N	NA	F	S	N	NA	M	P	N	NA		
4	fiEolap	أَسْلِحَةَ	M	P	N	NA	F	P	N	NA	F	S	N	NA	M	P	N	NA		
		فَيْتِيَّةَ	M	P	N	NA	F	S	N	NA	F	S	N	NA	M	P	N	NA		
		عِلْمَةَ	NA	NA	NA	NA	F	P	N	NA	NA	NA	NA	NA	NA	NA	NA	NA		
جِيرَةَ	M	P	N	NA	F	P	N	NA	F	S	N	NA	F	S	N	NA				