

# VOWEL-CONSONANT PATTERNS IN 8-LETTER HETEROGRAMS

SUSAN THORPE

Great Missenden, Buckinghamshire, England

thorped@hotmai.com

In *Vowel-Consonant Patterns: Part 1* (WW2002249) we found that there are 256 ( $2^8$ ) 8-letter vowel-consonant patterns - 128 beginning with a consonant (C Patterns) and 128 with a vowel (V patterns). When it comes to heterograms (all letters different), these numbers are reduced. This is because there are only 5 different vowels available (a, e, i, o and u), so that any V-C pattern with more than 5 vowels is automatically ruled out of a heterogram exercise. Thus the number of C patterns available is reduced by 8 from 128 to 120; the number of V patterns is reduced by 29 from 128 to 99. In the lists which follow, the non-available patterns are blocked. A single example is provided for each of the available patterns wherever possible. Gaps indicate patterns for which no heterogram was found.

As previously (2002249), I don't admit the letter Y in either its vocalic or consonantal capacity. Unreferenced words can be found in the Oxford English Dictionary, Second Edition.

References for non-OED words:

**cham** = Chambers English Dictionary; **hod** = Handbook of American Indians Ed. by F.W. Hodge, 1907; **nz** = Nomenclator Zoologicus; **web2** = Webster's Second Edition; **wgd** = The Complete Word Game Dictionary by T. Pulliam & G. Carruth, 1984.

*Italicised* references are locations, identified by country, taken from The United States Board on Geographic Names:

**Alb** = Albania; **Alg** = Algeria; **Ang** = Angola; **Arm** = Armenia; **Aus** = Austria; **Aze** = Azerbaijan; **CAR** = Central African Republic; **Cze** = Czechoslovakia; **Fra** = France; **Ger** = Germany; **Gre** = Greece; **IC** = Ivory Coast; **Leb** = Lebanon; **Lux** = Luxembourg; **Man** = Mauritania; **Mor** = Morocco; **Nor** = Norway; **SA** = South Africa; **Tun** = Tunisia; **Wal** = Wales, UK.

## 8-LETTER C PATTERNS

Words were found for 113 of the 120 available patterns.

21 of the C patterns have exactly 5 vowels. Words were found for 20 of these and it follows that these are filled by AEIOU words - those in which the 5 vowels each occur just once. The 5-vowel patterns are shown in **boldface**.

\*ZAOUIETS represents more than one place with the name ZAOUIET (in Algeria, Morocco and Tunisia).

## 8-LETTER V PATTERNS

Words were found for 86 of the 99 available patterns.

35 of the V patterns have exactly 5 vowels and words were found for 29 of these.

\*OUDEIATS represents 3 places with the name OUDEIAT (in Algeria, Mauritania and Morocco); \*ARINDZHS represents 2 places with the name ARINDZH (in Armenia and Azerbaijan).



## 8-LETTER C PATTERNS

CCCCCCCC		CCCCCCCv		CCCCCCCvC	SKRCHLEB (Cze)
CCCCCCCv		CCCCCvCC	GSCHWAND (Aus)	CCCCCvCv	HWKSTARE
CCCCCvC	GSCHNEID (Ger)	CCCCCvv		CCCCvCCC	MCKNIGHT
CCCCvCCv	SCHRIFTE	CCCCvCvC	CWMBELAN (Wal)	CCCCvCv	TSCHOKAI (hod)
CCCCvCC	SCHRIEMP	CCCCvCv	VMBRAIDE	CCCCvvvC	VNCTIOUS
CCCCvvv		CCCvCCCC	ZDRANJSH (Alb)	CCCvCCCv	STRANGLE
CCCvCCvC	SPLINTER	CCCvCCv	STROPHAE	CCCvCvCC	THROWING
CCCvCvCv	CHROMATE	CCCvCvC	SCLEROID	CCCvCvv	KHRELOUA (Alg)
CCCvCCCC	SKRIETCH	CCCvCCv	SCROUNGE	CCCvCvC	SPROUTED
CCCvCv	STRIOLAE	CCCvvCC	THROEING	CCCvvvCv	TCHIOUNE (Alg)
CCCvvvC	CHRAOUIL (Leb)	CCCvvvv		CCvCCCCC	KLENTSCH (Cze)
CCvCCCCv	TWINCKLE	CCvCCCCvC	SCULPTOR	CCvCCCCv	TROCHLEA
CCvCCvCC	PLATFORM	CCvCCvCv	BLOCKAGE	CCvCCvC	FRACTION
CCvCCvv	DRAMBUIE	CCvCvCCC	PLUTARCH	CCvCvCCv	FLAMENCO
CCvCvCvC	CHERUBIM	CCvCvCv	TRILOGUE	CCvCvCC	GRADIENT
CCvCvCv	THESAURI	CCvCvvvC	PRECIOUS	CCvCvvv	BRIZEOUA (IC)
CCvCCCC	TRIUMPHS	CCvCCCCv	TRIANGLE	CCvCCvC	CLOISTER
CCvCCv	GLAUMRIE (web2)	CCvCvCC	GROUPIST	CCvCvCv	FLUORIDE
CCvCvC	CREATION	CCvvCvv	CHOISEAU (Fra)	CCvvCCC	BLUEINGS
CCvvvCCv	DROUANCE (Fra)	CCvvvCvC	RHOEADIC	CCvvvCv	THIOUREA
CCvvvCC	RHOUAELM (Mor)	CCvvvvCv	CHIAOUSE	CCvvvvvC	FREIOUAT (Man)
CCvvvvv		CvCCCCCC	WILTZSCH (Ger)	CvCCCCCv	SAWGHTLE
CvCCCCCvC	KICKSHAW	CvCCCCv	CONSTRUE	CvCCCCvCC	DIPHTHONG
CvCCCCvCv	DOCTRINE	CvCCCCvC	COMPLAIN	CvCCCCvv	DISPNOEA
CvCCvCCC	PENTARCH	CvCCvCCv	TANGIBLE	CvCCvCvC	BUNGALOW
CvCCvCv	FORMULAE	CvCCvCC	LANGUISH	CvCCvCv	MISQUOTE
CvCCvvvC	VITREOUS	CvCCvvv	BOSQUEIA (nz)	CvCvCCCC	ROMANSCH
CvCvCCCv	PENUMBRA	CvCvCCvC	LIPOGRAM	CvCvCCv	SERAGLIO
CvCvCvCC	MANIFOLD	CvCvCvCv	PINAFORÉ	CvCvCvC	VEXATION
CvCvCvv	VOCATIUE	CvCvCCC	PERIANTH	CvCvCCv	SOCIABLE
CvCvCvC	REGIONAL	CvCvCv	JALOUSIE	CvCvvCC	ROGUEISH
CvCvvvCv	SAVIOURE	CvCvvvC	HAREIOUS	CvCvvv	
CvvCCCC	LAEPSCHT (Lux)	CvvCCCCv	SOULPHRE	CvvCCCCvC	QUIPSTER
CvvCCCv	NEUSTRIA	CvvCCvCC	QUICKEST	CvvCCvCv	POULTICE
CvvCCvC	REACTION	CvvCCvv	LIONCEAU	CvvCvCCC	REALIGNS
CvvCvCCv	SUITABLE	CvvCvCvC	SOUVENIR	CvvCvCv	DIALOGUE
CvvCvCC	ROUTEING	CvvCvvCv	GAULOISE	CvvCvvvC	WAIGOUR
CvvCvvv		CvvvCCCC	MAIERSCH (Aus)	CvvvCCCv	MIAOTSZE
CvvvCCvC	QUAINTER	CvvvCCv	MAUTHOE (nz)	CvvvCvCC	BEAUFORT
CvvvCvCv	QUOINAGE	CvvvCvvC	DOUANIER	CvvvCvv	
CvvvCCC		CvvvvCCv	GOUAICHE (Alg)	CvvvvCvC	FAOUEDIC (Fra)
CvvvvCv		CvvvvvCC	ZAQUIETS*	CvvvvvCv	
CvvvvvC		Cvvvvv			



## 8-LETTER V PATTERNS

v v v v v v v v		v v v v v v C		v v v v v v C v	
v v v v v v C C		v v v v v C v v		v v v v v C v C	
v v v v v C C v		v v v v v v C C C		v v v v C v v v	
v v v v C v v C		v v v v C v C v		v v v v C v C C	<b>AOUIZERT</b> (Mor)
v v v v C C v v		v v v v C C v C	<b>AOUICHET</b> (Alg)	v v v v C C C v	
v v v v C C C C		v v v C v v v v		v v v C v v v C	
v v v C v v C v		v v v C v v C C		v v v C v C v v	
v v v C v C v C	<b>IOUKAREN</b> (Mor)	v v v C v C C v	<b>OUADICHE</b> (hod)	v v v C v C C C	<b>AEOLIGHT</b> (wgd)
v v v C C v v v		v v v C C v v C	<b>OUAGRIEN</b> (Mor)	v v v C C v C v	<b>IOURKANE</b> (Mor)
v v v C C v C C	<b>OUISBERG</b> (SA)	v v v C C C v v		v v v C C C v C	<b>OUICHRAM</b> (hod)
v v v C C C C v		v v v C C C C C		v v C v v v v v	
v v C v v v v C		v v C v v v C v		v v C v v v C C	<b>OUDEIATS</b> *
v v C v v C v v		v v C v v C v C	<b>AUREOLIC</b>	v v C v v C C v	<b>IOCAUNTE</b>
v v C v v C C C	<b>AUDIENTS</b>	v v C v C v v v		v v C v C v v C	<b>AELUROID</b>
v v C v C v C v	<b>AUTOCIDE</b>	v v C v C v C C	<b>EULOGISM</b>	v v C v C C v v	<b>EOSUCHIA</b> (nz)
v v C v C C v C	<b>EUROCRAT</b>	v v C v C C C v	<b>IOLANTHE</b>	v v C v C C C C	
v v C C v v v v		v v C C v v v C	<b>UGRAIEN</b> (Alg)	v v C C v v C v	<b>OUTRAISE</b>
v v C C v v C C	<b>OUTWEIGH</b>	v v C C v C v v	<b>EUPHORIA</b>	v v C C v C v C	<b>AUTHORED</b>
v v C C v C C v	<b>AIRBORNE</b> (cham)	v v C C v C C C	<b>OUTWARDS</b>	v v C C C v v v	
v v C C C v v C	<b>OESTRUAL</b>	v v C C C v C v	<b>AIRDROME</b>	v v C C C v C C	<b>EARTHING</b>
v v C C C C v v	<b>EISTFLUA</b> (Nor)	v v C C C C v C	<b>EARLSHIP</b>	v v C C C C C v	
v v C C C C C C		v C v v v v v v		v C v v v v v C	
v C v v v v C v		v C v v v v C C	<b>OBEIAUNS</b>	v C v v v C v v	
v C v v v C v C	<b>ULEIOTAS</b> (nz)	v C v v v C C v	<b>AQUOINTE</b>	v C v v v C C C	<b>AQUEINTS</b>
v C v v C v v v		v C v v C v v C	<b>EQUATION</b>	v C v v C v C v	<b>AQUOTIZE</b>
v C v v C v C C	<b>EQUATING</b>	v C v v C C v v	<b>ALIONGUE</b> (Ang)	v C v v C C v C	<b>OCEANFUL</b>
v C v v C C C v	<b>ABOUGHTE</b>	v C v v C C C C	<b>UNEARTH</b>	v C v C v v v v	
v C v C v v v C	<b>EDACIOUS</b>	v C v C v v C v	<b>EBURIOLA</b> (nz)	v C v C v v C C	<b>ICEBOUND</b> (cham)
v C v C v C v v	<b>ODALIQUE</b> (cham)	v C v C v C v C	<b>EDUCATOR</b>	v C v C v C C v	<b>UNITABLE</b>
v C v C v C C C	<b>OVERACTS</b>	v C v C C v v v	<b>ABONLIEU</b> (Fra)	v C v C C w v C	<b>EMULSION</b>
v C v C C v C v	<b>OVALTINE</b>	v C v C C v C C	<b>EMIGRANT</b>	v C v C C C v v	<b>AVOWTRIE</b>
v C v C C C v C	<b>ALIGHTED</b>	v C v C C C C v	<b>ORESHNJA</b> (Alb)	v C v C C C C C	<b>ARINDZHS</b> *
v C C v v v v v		v C C v v v v C	<b>ASKEIOUR</b> (Mor)	v C C v v v C v	<b>INGOUADE</b> (CAR)
v C C v v v C C	<b>ACQUEINT</b>	v C C v v C v v	<b>OPHIURAE</b>	v C C w v C v C	<b>EXPIATOR</b>
v C C v v C C v	<b>UNVIABLE</b> (cham)	v C C v v C C C	<b>EXPOUNDS</b>	v C C v C v v v	<b>OBLIQUAE</b>
v C C v C v v C	<b>INFAMOUS</b>	v C C v C v C v	<b>ATROPINE</b>	v C C v C v C C	<b>ORGANISM</b>
v C C v C C v v	<b>ORGANDIE</b>	v C C v C C v C	<b>AGNOSTIC</b>	v C C v C C C v	<b>ABSINTHE</b>
v C C v C C C C	<b>UPLIGHTS</b>	v C C C v v v v		v C C C v v v C	<b>ARCHEION</b>
v C C C v v C v	<b>UNPRAISE</b>	v C C C v v C C	<b>ANGRIEST</b>	v C C C v C v v	<b>AMBROSIE</b>
v C C C v C v C	<b>EMPHATIC</b>	v C C C v C C v	<b>OXBRIDGE</b>	v C C C v C C C	<b>INGROWTH</b>
v C C C C v v v	<b>ANDHREOU</b> (Gre)	v C C C C v v C	<b>ANTHROIC</b>	v C C C C v C v	<b>ABSTRUCE</b>
v C C C C v C C	<b>UPTHROWN</b>	v C C C C C v v	<b>ACHTVLEI</b> (SA)	v C C C C C v C	<b>ANGSTROM</b>
v C C C C C C v	<b>ULTSCHNA</b> (hod)	v C C C C C C C			