## SETS OF WORDS WITH ALPHABETIC PROGRESSION

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This article responds to the challenge posed by Susan Thorpe on page 212 of the August 2001 issue of Word Ways. We seek a word that still produces valid words when the first letter is replaced by A, and when the second letter is replaced by B, etc. However, much of this article is taken up with two generalisations. The first is to examine other word lengths. In the second, we depart from the concept of invariance, in which the position of a letter in the word is the same as its position in the alphabet, and merely require that successive positions in the words be occupied by successive letters of the alphabet. All words are in the OED or Webster 2, except those marked Ch (Chambers), EDD (English Dialect Dictionary), Lo (Longman), OSPD (Official Scrabble Players Dictionary), Pull (Pulliam). Pname = personal name, and vf = OED variant form.

## 4-letter words

Firstly, I respond directly to her challenge:

ABCD: ORAS ARAS, OBAS, ORCS, ORAD

ORES ARES, OBES, ORCS, ORED (Susan Thorpe example)

OWLE (vf) AWLE, OBLE, OWCE (vf), OWLD

SPAC (vf) APAC (phrase?), SBAC, SPCC (acronym), SPAD

USEL ASEL, UBEL (German übel, whence evil), USCL (United Society for

Christian Literature), USED

Next, I looked for similar sets of words, but with BCDE, CDEF, etc. in place of ABCD. The numbers of examples found (notice the zero counts!) were A 5, B 37, C 11, D 157, E 8, F 1, G 3, H 26, I 1, J 28, K 77, L 9, M 37, N 5, O 0, P 2, Q 16, R 16, S 1, T 39, U 0, V 31, W(XYZ) 1.

Tackling the difficult ones first (which will yield some awkward answers):

FGHI: WELY FELY (vf), WGLY (vf), WEHY, WELI (Pull)

GHIJ: CLUB GLUB, CHUB, CLIB, CLUJ (Web3)
CLUM (Pull) GLUM, CHUM, CLIM, CLUJ (Web3)

CLUT (vf) GLUT, CHUT, CLIT, CLUJ (Web3)

IJKL: ASEE
I SEE, AJEE, ASKE, ASEL
PQRS: SAAT (vf)
PAAT (vf), SQAT (vf), SART, SAAS (EDD)

SEAT PEAT, SQAT (vf), SERT, SEAS

WXYZ:ONES WNES, OXES (OSPD), ONYS, ONEZ

Now a small selection from the ones with most answers:

**DEFG:** BANT DANT, BENT, BAFT, BANG

GIRT DIRT, GERT (vf = great, or pname), GIFT, GIRG

GONE DONE, GENE, GOFE, GONG DANT, HENT, HAFT, HANG

KANT DANT, KENT (whale blubber), KAFT (Swedish, whence chaft), KANG

LANE DANE, LENE, LAFE (Pull), LANG

LINE DINE, LENE, LIFE, LING
LINT DINT, LENT, LIFT, LING
LONE DONE, LENE, LOFE, LONG

RINE DINE, RENE (= furrow or pname), RIFE, RING

SANE DANE, SENE, SAFE, SANG
SINE DINE, SENE, SIFE (Pull), SING
SONT DON'T, SENT, SOFT, SONG
TINT DINT, TENT, TIFT, TING

WANT DANT, WENT, WAFT, WANG
WART DART, WERT, WAFT, WARG
WINE DINE, WENE, WIFE, WING

WONT DON'T, WENT, WOFT, WONG (antonym of wight?)

KLMN: ARAS KRAS, ALAS, ARMS, ARAN (adj)

COOP KOOP (Pull), CLOP, COMP, COON

GAIE KAIE, GLIE, GAME, GAIN

POOP KOOP (Pull), PLOP, POMP, POON

Finally, some examples with other alphabetic sequences having some everyday words:

HIJK: MANA HANA (Old English, a cock), MINA, MAJA, MANK

MARO HARO, MIRO, MAJO, MARK

PUNA HUNA (in Highlands), PINA, PUJA, PUNK

RACE HACE, RICE, RAJE, RACK

JKLM:SEAT JEAT, SKAT, SELT, SEAM

LMNO:SAIT LAIT, SMIT, SANT, SAIO (vf)

MNOP:SEED MEED, SNED, SEOD, SEEP

QRST: CATS
QATS, CRTS (CRTs), CASS, CATT (vf)
RSTU: TAPS
RAPS, TSPS (teaspoonsful), TATS, TAPU
TARE, BURE, BAVE (Pull), BARW (vf)
DEES
TEES, DUES, DEVS (OSPD), DEEW (vf)

REES TEES, RUES, REVS, REEW (vf)
WIDE TIDE, WUDE, WIVE, WIDW
VINIT DWNIT DIVIT (vf) DINIV

VWXY:PINT VINT, PWNT, PIXT (vf), PINY

## 5-letter words

Examples here are much scarcer, and use mainly obsolete words; there are single examples for BCDEF and HIJKL, and five for DEFGH:

BCDEF: SARIE BARIE, SCRIE, SADIE (pname), SAREE, SARIF

HIJKL:MARAS HARAS (Pull), MIRAS (Lo), MAJAS, MARKS, MARAL DEFGH:BARTE (Ch) DARTE (vf), BERTE, BAFTE (vf), BARGE, BARTH

LINTE (vf) DINTE (vf), LENTE (vf), LIFTE (vf), LINGE, LINTH (vf) LOUTE (vf) DOUTE (vf), LEUTE (vf), LOFTE (vf), LOUGE (vf), LOUTH

(in Lincolnshire)

LYNTE (vf) DYNTE, LENTE, LYFTE, LYNGE, LYNTH (all vf)
SIETE (vf) DIETE (vf), SEETE, SIFTE (vf), SIEGE, SIETH

## 6-letter words

Even the fifth of the six words could not be found.