6-BY-6 DOUBLE WORD SQUARES

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The November 1975 issue of Word Ways presented a set of 52 7-by-7 word squares that were generated by computer from a list of boldface words from Webster's Collegiate Dictionary (Seventh Edition) plus the appendices of boys' and girls' names. This article reports on the results of a similar computer search for 6-by-6 double word squares.

A double word square is one in which the horizontal words and vertical words are all different from each other. These squares are decidedly more difficult to construct than the corresponding symmetrical squares (i.e., those of the same size). For example, in Language on Vacation (Scribner's, 1965), Dmitri Borgmann cites the double word square to the right as one of the better 6-by-6 double word squares. Although all the words appear in Webster's Second, four (ectene, adiate, pirite, adance) do not appear in the Collegiate and two others are derived forms not in boldface there.

This article presents a set of 117 6-by-6 double word squares with the words restricted to the above references. No square draws all 12 of its words from Webster's Pocket Dictionary, answering an open question posed by William Sumners in the November 1972 Word Ways. However, several come very close to doing so, lacking only one word (ratton, a dialect version of "rat", or Avesta, the sacred books of Zoroastrianism).

Several of these word squares occur in clusters which are described separately from the main listing. The most notable cluster has seventeen squares which can be divided into two slightly different groups of 12 and 5 squares, respectively:

S C H I S +
* R * N C E
R A T T O N
I N T E N +
* I E R C E
E A R N E R

Replace * with PA PI TA TA
any of following: T T P F

Replace + with M T T
any of following: D D T

Three small are given by

* A S
* U*
U R C
T O R
C R E
H A *
D E S
I N H
S C *
E V
H A G E
D E *
L A S
E S C
C L C
T O R
O P I
R E A

The rem pages. Six of two letter
of 52
a list of
nth Edi-
article re-
6 double
ds and ver-
date, pir-
are deri-
quares with
aws all 12
in open
rd Ways.
one word
ooks of
're described
has seven-
groups of
rs and ver-
date, pir-
are deri-
quares with
aws all 12
in open
rd Ways.
one word
ooks of

Three smaller clusters of five, three and two squares, respectively,
given below:

S U F I S M
* R * N C E
R A T T O N
I N T E N D
* I E R C E
* A * N E R

Replace * with PA PI TA TA TA
any of following: T T F P P
ER ER ER ER TN

Replace * with C T C T C T C T G S
any of following: LCI LCI LNU RTI RTI
RD ST RD ST ST

Replace * with O A A
any of following: RM RM NT

Replace * with C T
any of following: D P

The remaining 90 squares are given in the list on the next three
pages. Six of these squares contain an asterisk representing either
of two letters (indicated beneath).
| **REGROW** | **RESORB** | **RESORB** | **SABLES** |
| **OOLITE** | **ELATER** | **EVENER** | **CREESH** |
| **ACACIA** | **VIRTUE** | **SILENI** | **ORNATE** |
| **MENTOR** | **INDABA** | **OLEINE** | **TINNER** |
| **ENCASE** | **LOAVES** | **RENDER** | **EVENLY** |
| **REELER** | **ERRANT** | **TREATY** | **RETELL** |
| **SABLES** | **SACHEM** | **SAMARA** | **SAMBAR** |
| **UNRIPE** | **TYRONE** | **PREMED** | **TROUPE** |
| **MYELIN** | **AMANDA** | **ALNIC** | **ASTRID** |
| **MONICA** | **CASEIN** | **READER** | **TITLED** |
| **ENDEAR** | **TRISTE** | **ENCODE** | **ENLACE** |
| **DEADLY** | **EASTER** | **REELER** | **DEEPEN** |
| **SAMPLE** | **SARDAR** | **SCALAR** | **SCARAB** |
| **UVULAR** | **CLEAVE** | **THRIVE** | **TAMARA** |
| **RETINA** | **ALDRED** | **RIPPED** | **AMIGOS** |
| **FRACAS** | **REBIND** | **OLEINE** | **REDOUT** |
| **ESTATE** | **PLUNGE** | **VENDUE** | **CROUSE** |
| **REELER** | **HEDGER** | **ESTEEM** | **HALTER** |
| **SCARER** | **SCAREY** | **SCHEME** | **SCHIST** |
| **POLITE** | **ORNATE** | **URANYL** | **THENCE** |
| **LOADED** | **CONCHA** | **CORED** | **AORTAE** |
| **ATTIRE** | **ISAIAS** | **CURULE** | **TUMULT** |
| **SIENNA** | **ASLANT** | **OSIRIS** | **ISAIAH** |
| **HEDGER** | **LESLEY** | **RESENT** | **CENTRE** |
| **SCILLA** | **SEABED** | **SEEDER** | **SEESAW** |
| **EOLIAN** | **EXHALE** | **POMEO** | **ENDURE** |
| **TALENT** | **SMILAX** | **ACETAL** | **PSYLLA** |
| **TRINAL** | **TOMTIT** | **DERAIL** | **TATTER** |
| **ESTATE** | **EOSINE** | **ENGINE** | **ETHANE** |
| **REELER** | **TRACER** | **REELER** | **TEENER** |
| **SLEUTH** | **SPLINT** | **STELAR** | **TAPPET** |
| **LONNIE** | **URANIA** | **TELOME** | **HELENE** |
| **IRISES** | **FORCER** | **IRONIC** | **ORATOR** |
| **DESERT** | **INDULT** | **FRINGE** | **MOTILE** |
| **ENLACE** | **STELLA** | **LOGION** | **ABATIS** |
| **REELER** | **MORTON** | **ERNEST** | **SENECA** |
| **CLOSET** | **TESTED** | **SCROTA** | **VECTOR** |
| **RANULA** | **ONEIDA** | **MA*LER** | **INHALE** |
| **AMEBAN** | **MOLTEN** | **ARGENT** | **SCORES** |
| **SEISIN** | **CUEING** | **LEGATE** | **COSTAE** |
| **IN DEN** | **AGNAIL** | **TEETER** | **IDEATE** |
| **STATE*** | **THENCE** | **ORRERY** | **DENNED** |

* = D, R

* = I, U
ADAMIC  BEACON  BEAGLE  BEHALF
TORULA  EXHALE  OXTAIL  UREDIA
TURTLE  SPINET  WHAMMY  GRAVEN
ACETIC  TOMCAT  LAMENT  LAVERN
CHAETA  OSSETE  ELATER  ETERNE
KERNEL  WEAVER  GENERA  RANter
CADDIS  CAEICAL  CAPPER  CERISE
ORIENT  ADMIRE  ESSENCE  OMENTA
SLEAVE  LABRET  SCYLLA  WEEDER
MISSAL  IGOROT  TELIAL  LUCERN
ONEIDA  PILULE  UNLACE  ETHENE
SELLER  HOISED  STASES  DEODAR
CESTUS  CHASER  CHIELD  CLOVER
UMPIRE  OOLITE  HINDOO  RAVINE
SPIRAL  WRIGHT  RADIUS  OMENTA
Pirate  MAGNET  OTITIS  NERFID
IRIDIC  ACHENE  MUCOSA  UNLACE
DETECT  NETTED  ASTRAL  STYLER
CRASIS  CUPPER  DADOES  DARREL
RECENT  UNIATE  ARABLE  UREASE
ENCEASE  SLOTHS  MERLIN  REMISS
DERMAL  SALINE  MONICA  HOUSES
IGUANA  EDENIC  ELEGIT  ALDINE
TEENER  DETECT  DELETA  MEANER
DISBAR  ECLAIR  ENCAMP  EPHEBE
INTIMA  ROUBLE  ROOTER  URETER
STATOR  ARNOLD  OVERDO  RICHEN
CENTRE  SPARID  TEREUS  OCTAVE
UNCIAL  ESTATE  INCUSE  PEONES
STEELY  REELER  CAESAR  ARREST
EPHEBI  ESCHAR  FALTER  FISCAL
SAANEN  SLEEVE  ORIOLE  UNTUNE
CRISSES  TERRET  REGION  SCORES
ARRIVE  RATINE  MOULIN  SOLUMS
PEELER  UVEOUS  ALLEGEO  EMILIE
ELDEST  SESTET  LEARNO  REDEAR
APLITE  GAFFER  APLITE  GAMMED
URANIA  ARLENE  UREMIA  ARIOSO
TORTES  SPURGE  TAPPER  SCANTY
INVERT  SERIAL  INTERN  SAMIEL
STANCE  ENRAGE  SCONCE  ENSILE
MOL*ER  STYLER  MENDER  RASHLY

*= D, T  *= A, I

Webster  Readers are  statements about  received up
in that issue

Dave Silver
Chairs in the
The Sybil
The Malik
The Racer
R. Robinson
The Fan
The Phil
The Otto
The Gilc
The Rex
For still more

By now, Woody  Rambo's an  of line-by-line
"Fools rush
However, for  the poem (but
also form a
Sir Jeremy
multiple tran
transposal
list (mention
the largest
finds that the
same artic
a few addi