To obtain an a priori estimate of natural language mediators (NLM's) 320 pairs of words with the consonant-vowel-consonant-pattern (CVC's) were broken into four series of 90 pairs and presented to 240 male and female undergraduates. Pairs were shown for 15 seconds while the subjects wrote down any associative device or NLM they could generate that would link both items in the pair. The association value (AV) of pairs varied between pairs. The proportion of subjects able to make an association was the associability value (AS). Results indicated that AS and AV were correlated although AS varied among pairs with items about equal in AV. Experiments run after the AS scale was obtained demonstrated that AS was valuable as a predictor of learning rate. In addition, AS values were highly correlated with the frequency of NLM's in the post-experiment reports. It was concluded that the AS measure represents a valuable addition to our understanding of the complexity of verbal learning. Seven tables provide data. (Author/RP)
THE ASSOCIABILITY OF CVC PAIRS

William E. Montague
and
Harold O. Kiese

RESEARCH REPORT

CONTRACT OEC-3-6-058375-0612

between the
University of Illinois
Department of Psychology
and the
Bureau of Research
Division of Higher Education Research
Department of Health, Education and Welfare
Office of Education

William E. Montague
Project Director

November 15, 1967
This report presents all research completed under a fixed-price contract (listed above) between the University of Illinois and the Office of Education,
# Table of Contents

Abstract .................................................. 1
Associability Norms ....................................... 1
  Associability 1 (AS-1) .................................... 4
  Associability 2 (AS-2) .................................... 6
  Associability 3 (AS-3) .................................... 7
Results AS-1 and AS-2 ................................... 8
Results AS-3 .............................................. 10
Discussion .................................................. 13
Relation of AS to Performance ......................... 14
  Experiment 1 ............................................. 14
  Experiment 2 ............................................. 18
  Experiment 3 ............................................. 19
  Experiment 4 ............................................. 21
Summary and Conclusions ................................ 24
References ................................................ 25
Table 1 .................................................... 29
Table 2 .................................................... 30
Table 3 .................................................... 31
Table 4 .................................................... 63
Table 5 .................................................... 69
Table 6 .................................................... 70
Table 7 .................................................... 72
Table 8 .................................................... 73
Abstract

In prior experiments subject-generated associative devices or natural language mediators (NLMs) linking pairs of items have been shown to facilitate acquisition of paired associates. Since Ss are questioned about NLMs after learning, such reports may be a result of the questioning. Therefore, to obtain an a priori estimate of NLM probability this research was undertaken. Several hundred pairs, each composed of CVCs of about equal association value (AV), were shown for 15 sec. while Ss wrote down any NLM they could generate which linked both the stimulus and response. The AV level was varied between pairs. The proportion of Ss able to generate a NLM is the associability value (AS). As expected, AS and AV are correlated although AS varies considerably among pairs composed of items about equal in AV. Experiments run after the AS scale was obtained demonstrated that AS is valuable as a predictor of learning rate. In addition, AS values were highly correlated with the frequency of NLMs in post-experiment reports. It was concluded that the AS measure represents a valuable addition to our understanding of the complexity of verbal learning.
The Associability of CVC Pairs

William E. Montague and Harold O. Kiess

University of Illinois, Urbana

Associability Norms

Meaningfulness of verbal material has been recognized as an important variable in paired-associate (PA) verbal learning and retention since Ebbinghaus' pioneering work in 1885. In fact, meaningfulness has been found to be the most powerful variable influencing speed of acquisition in verbal learning and has been the subject of a considerable amount of research in recent years. Simply, the effect of meaningfulness on learning rate can be seen in PA learning experiments where a pair like RIQ-KIV takes considerably longer to learn than a pair like TEL-COM. Since TEL and COM are items to which subjects (Ss) can give a relatively high number of associations we say they are more meaningful. Meaningfulness, or association value (AV), defined either in terms of the number of associations given in a limited time period, or the proportion of Ss giving an association to each verbal unit, has proved effective in influencing the rate of learning in many experiments (Goss and Nodine, 1965; Underwood and Schulz, 1960).

Although there is no doubt that meaningfulness is a major variable, a number of results indicate that it cannot account for all the important phenomena. For example, in a number of experiments involved in the recent controversy over "one-trial" or "all-or-none" learning, the rate of learning for pairs of equivalent meaningfulness differed considerably (Underwood and Keppel, 1962). This difference between pairs cannot be
based in any simple fashion upon meaningfulness since all pairs were originally equated on this dimension.

In several recent experiments, during post-experiment questioning, Ss reported using various means such as sentences or words to associate or link items together. The ubiquity of such reports by our Ss, and by other experimenters' Ss (e.g., Bugelski, 1962; Clark, Lansford and Dallenbach, 1960; Runquist and Farley, 1964; Underwood, 1964, 1965; Underwood and Schulz, 1960) points to the need for systematic investigation of this mediation. From the reports it can be seen that Ss use various means of learning the pairs, and in addition, certain pairings are easier because Ss find them easier to associate. A single word may be used to link two items, or a phrase or sentence may be generated which includes the items. At other times Ss may learn a pair by recognizing that the items sound alike when pronounced or they may encode (transform) the items into words. We refer to these techniques as natural language mediators (NLMs) and have found that they are important in learning and recall (Adams and Montague, 1967; Kiess and Montague, 1965; Montague, Adams and Kiess, 1966; Montague and Wearing, 1967a, 1967b). This research has shown that S-generated associations between items, not the meaningfulness of individual items per se, produce superior retention in comparison to instances where such associations are not present. Unfortunately, our knowledge about NLMs is generally by means of an interview or questionnaire given upon completion of the experiment, asking Ss how they went about learning each pair. Subjective reports of this kind are suspect. It is possible that Ss construct answers to "please" the experimenter in accord with the demand characteristics of the experiment (Orne, 1962) so that the NLMs reported
Montague

might not be accurate descriptions of what is learned. It is possible that some or all NLMs are not causal in learning, but may just be a correlate of the learning process (Adams, 1967). To ascertain their status in the associative process it is necessary that the probability of a NLM be manipulated independently of other variables known to affect learning rate. Therefore, some independent measure of the probability or likelihood of NLMs is necessary. Such a measure could be systematically manipulated to ascertain its relationship with other important variables and increase our understanding of verbal learning.

Undoubtedly, items high in $AV$ should be easier to link than those of low $AV$. Richardson and Erlebacher (1958) hypothesized that items high in $AV$ have more associations and these associations can be used somehow to facilitate linking such pairs compared to pairs of lower $AV$. Their Ss' ratings of pairs generally agreed with the hypothesis. However, it is our contention that $AV$ and ease of linking or associability, although correlated, are conceptually different and that this difference needs examination. Pairs of items of a given level of $AV$ are liable to differ considerably in associability, and thereby, in ease of learning. To support these contentions we obtained quantitative estimates of the ease of associating various types of item pairs. We first attempted to determine the frequency with which Ss form associative connections between item pairs of different $AV$ levels. The proportion of Ss generating a NLM for each pair is the scale value of associability ($AS$). After the $AS$ scale was obtained several experiments were undertaken to examine the effect of variation in $AS$ on learning rate and retention. In addition, a subsequent scaling was undertaken to ascertain the role of stimulus and response $AV$ in $AS$ value, and to relate $AS$ value to
Montague

the measures obtained by Richardson and Erlebacher (1958). In their study, Richardson and Erlebacher took pairs of words, CVCs, and consonant syllables of different levels of AV and had Ss rate them for ease of learning (EL, an estimate of how fast S could learn the pair) and common meaning (CM, degree to which pair items denoted the same meaning). These scale values should be related to the AS scale.

Three scalings of separate sets of items were done (designated AS-1, AS-2, AS-3), which differed only in the sets of items used. The scaling procedures described for AS-1 will apply also for AS-2 and AS-3.

Associability 1

Method

Materials. Three hundred and twenty pairs of CVCs were selected from Archer's norms (1960). Each pair was composed of items approximately equal in AV. Eighty pairs were constructed from the 160 lowest AV items on the norms. Similarly, eighty pairs were constructed from the 160 highest AV items, which are mostly three letter words. Two other blocks of 160 items from above and below the middle of the norms were used to form two more sets of 80 pairs yielding 320 pairs in all. Within each block of 160 items, 40 pairs were formed from the 80 items with the lower AV and 40 from the higher AV items to ensure that the AV of both items in the pair was approximately equal. Within these constraints the pairings were random. The AV ranges for the four sets of 80 pairs were: low = 2 - 13%; low-middle = 38 - 47%; high-middle = 66 - 76%; and high = 99 - 100%.

Four series of 80 pairs each were constructed. For each series an equal number of pairs (N = 20) were selected randomly from each of the four AV levels and dispersed at random throughout the series. These series
were used to counterbalance order effects in presentation. In addition, 40 pairs were selected at random (10 from each level of AV) to be used to check the reliability of the ratings. Ten of these pairs were added to each series rather than presenting them in a block. However, no pair appeared twice within a series. The final series used were thus 90 pairs long.

**Subjects.** The Ss were 240 male and female undergraduate volunteers from the University of Illinois who were paid for their participation. Equal numbers of males and females were run.

**Procedure.** Four different presentation orders of the four 90-pair series were given to subgroups of 30 Ss each by means of a 4 X 4 Latin square. The rows of a square were subgroups of Ss and the columns represent the order of presentation of the four series. Order of pairs within a series was the same for all Ss. The square was run twice, once for males and once for females. Each pair was presented by a projector for 15 seconds. Between the 1st and 2nd, and the 3rd and 4th series there was a short rest period of about 2 minutes, and at the end of the second series there was a 5-minute rest.

Subjects were asked to write the first associative device, if any, that a pair suggested to them in an answer booklet with numbered spaces for 10 responses on each page. Instructions gave examples of associations for both high and low AV pairs. Emphasis was placed on forming an association to both of the items in the pair, and not just one of the members. Subjects were informed that they were not expected to have associations for every pair and if they had no association to leave the response space blank. Following the instructions, a series of 10 practice slides composed of pairs of varying levels of AV was given. The Ss were permitted to ask questions
about the procedure after the practice series. In order to aid Ss in keeping
their place in the booklet another slide projector showed the ordinal number
of each pair in the series.

**Associability 2**

In this scaling the primary intent was to obtain a wider range of
pairs which would be suitable for future experimentation. Therefore,
rather than pairing items randomly, we constructed pairs with minimal
inter-item similarity.

**Method**

**Materials.** Three hundred and twenty pairs of CVCs were constructed
from Archer's norms (1960). As in AS-1, within-pair AV was approximately
equal. Seventy pairs were constructed from CVCs at each of the same four
levels of AV used in AS-1. However, the pairing of items was not random.
Pairs were constructed with no consonants and wherever possible no vowels
in common. In only two instances was it necessary to repeat a vowel. Ten
pairs at each level of AV were taken from AS-1, added to the list, and were
used to determine between groups reliability for the AS values. In addition,
as in AS-1, 10 items were chosen from each AV level to be given twice to
obtain test-retest reliability. Therefore, four series of 90 pairs were con-
structed in the same fashion as those in AS-1.

**Subjects.** The Ss were 120 male and 120 female undergraduates who
were paid for their participation.

**Procedure.** The procedures used for counterbalancing the series
and presenting the items were identical to those used in AS-1.
Montague

**Associability 3**

Several purposes motivated a third scaling. First, it seemed necessary to compare the AS scale with the Ease of Learning (EL) and Common Meaning (CM) scales developed by Richardson and Erlebacher (1958). Second, pairs were included with S-R order reversed to determine whether AS would change appreciably. This was an attempt to see if the AS values are bidirectional. Third, sets of pairs of unequal item AV were included to explore the importance of stimulus and response AV in determining AS.

**Method**

**Materials.** A total of 320 pairs of CVCs were selected from a variety of sources. The types and number of pairs for each type used are listed in Table 1.

Four series of 80 pairs were constructed with an equal number of pairs from each type included in each. In addition, 10 pairs from each series were selected and used to measure test-retest reliability. Ten of these were added to each series making each series 90 pairs long. No pair appeared twice within a series.

```
Insert Table 1 about here
```

**Procedure.** The procedure was identical with that for AS-1 and AS-2.

**Subjects.** The 320 pairs were rated by 120 male and 120 female undergraduates from the University of Illinois who did not participate in the other scalings. They were paid for their time.
Results of AS-1 and AS-2

For each of the pairs of S's response was categorized as indicating that he generated a NLM for the pair or not. If S reported any device linking the items, such as noting letter or sound similarities, constructing single meaningful words by manipulating all or just a few of the letters, or using the items in a meaningful phrase or sentence, it was scored as a NLM. Reports of no associations, construction of nonsense polysyllables, and omissions were placed in the other category.

Before assessing the relationship between the scalings, and between AS and AV, it is necessary to examine the effect of two relevant variables: sex and sequence or practice effects. For each S the proportion of pairs on which associations were reported was calculated for each of the four series of 90 pairs. In analyzing data from both AS-1 and AS-2 these scores were entered into a Latin square analysis of variance (ANOVA) with sex, subgroup, ordinal position of the 90-pair series, and the different series themselves as factors (Winer, 1962, pp. 554-563). A pooled within-Ss error term was used. In both scalings females gave significantly more associations than males, AS-1: means of 59 and 54%; F(1, 232) = 80.14, and AS-2: means of 55 and 50%; F(1, 232) = 66.18. In AS-1 and AS-2 there was a significant decline in the proportion of associations given over the four series of 90 pairs, AS-1: F(3, 708) = 56.01, and AS-2: F(3, 708) = 2.64. The mean AS-1 scores as a function of the order of the series for males were .58, .54, .53, and .52 while those for females was .64, .60, .59 and .58. The AS-2 scores were very similar.

Intercorrelations between AS values of each item for males and females were high for both AS-1 and AS-2 as is shown in the lower right
The correlations between AS values for the sexes within levels of AV shown in Table 2 are somewhat lower.

Correlations between mean AV (i.e., average of stimulus and response AV), MAS, and FAS within levels of AV were low and insignificant for both AS-1 and AS-2. Table 2 shows the correlation coefficients between AV, MAS, and FAS for pairs of different AV levels. Taken over all four levels of AV the correlation was significant both for MAS and FAS but accounted for only about 5-8% of the variance in AS-1. As can be seen in the table, the coefficients in AS-2 were considerably higher accounting for nearly 50% of the variance. The reason(s) for this difference is unknown.

The test-retest reliability coefficients obtained by repeating 40 pairs were high, $r_{12} = .98$ for both MAS and FAS in both AS-1 and AS-2. There were 40 pairs common to AS-1 and AS-2, their scale values correlated significantly ($r = .98$) for both MAS and FAS. Therefore, the scalings are quite comparable and the pairs from the two scalings were combined and are presented together with similar pairs from AS-3 in Table 3.

Table 3 contains the main results: the 320 pairs from AS-1, 280 different pairs from AS-2, and 1293 pairs from AS-3. Table 3 is organized by increasing mean AS for 120 males and 120 females. For each pair, the scaling number (i.e., AS-1, AS-2 or AS-3), Archer's AV for both the stimulus and response, the MAS, FAS, and mean AS are shown. The AS scores are percentages of 120 Ss in the case of MAS and FAS, and 240 Ss.
for the combined mean value. For those items from AS-1 repeated in the subsequent scalings the proportions are based on AS-1 Ss only. On 78% of the pairs in Table 3 FAS exceeds MAS and the mean difference is 4.9% (S.D. = 5.9%). Therefore, pairs where MAS scores are equal to (4%) or exceed (18%), FAS scores are unusual and should perhaps be avoided for use in groups mixed as to sex.

Results AS-3

The scoring of data for AS-3 was the same as that for the other scalings. Again, for each item an AS score was computed separately for males and females and for each S a mean AS score was calculated for each of the four series. These scores were entered into the Latin square ANOVA with sex, subgroups of Ss, sequence of series and the series as factors. Significant sex, $F(1, 232) = 32.95$; subgroups, $F(3, 232) = 49.70$; and sex by subgroup interaction, $F(3, 232) = 13.37$, effects were found. As had been the case in AS-1 and AS-2 females again gave more associations than males (means $0.55$, $0.49$). Although there was a trend toward fewer associations in the later series, it was insignificant, $F(3, 708) = 1.89$.

Over all types of items the intercorrelations of MAS and FAS were generally high, ranging between $r = 0.74$ and $0.96$. The test-retest reliability was high for the items given twice in this scaling, $r_{12} = 0.98$ and $0.99$ for MAS and FAS respectively.

The intercorrelation of AS values for the 40 pairs common to AS-1 and AS-3 were very high for both males and females, $r = 0.97$ and $0.96$ respectively. The AS scores of the 40 common pairs were used in an ANOVA
Montague

for each sex separately. There was no significant difference between mean AS value for the items in AS-1 and AS-3 for MAS, $F(1, 78) = 1.32$, or FAS, $F < 1$. Therefore, the two scalings seem to be comparable. For this reason items composed of CVCs of about equal AV (i.e., types H-H and L-L) were included in Table 3 in the position determined by mean AS.

The 80 RS pairs were those scaled in AS-1, reversed in order, and rescaled in AS-3. Correlations of the AS-1 and AS-3 scales for these pairs for both MAS and FAS are high. For MAS the correlation was .94 and for FAS .93. ANOVAs comparing the AS-3 values against the corresponding AS-1 values showed for both males and females that the AS of a pair remained the same regardless of the order of the stimulus and response items, $F(1, 159) < 1$ for both FAS and MAS. Since the AS values are comparable from the two scalings these pairs have been included in Table 3 in their proper order according to mean AS.

The H-L and L-H pairs had unequal stimulus and response AV. However, the average AV (of the stimulus and response) for these pairs was about equal for both types. These items were scaled for AS to determine whether the stimulus or response is more important in forming an association. Table 4 shows these pairs, their AV, and MAS, and FAS values. ANOVA showed that although the mean AS value was higher for females, $F(1, 232) = 6.31$, it did not differ between the pair types, $F < 1$.

---

Insert Table 4 about here

---

For the H-L pairs AS was significantly ($p < .01$) although not strongly correlated with stimulus AV (.39 for MAS, .35 for FAS). Response AV was
not significantly related to AS value (.20 for MAS, .13 for FAS). On the other hand, for the L-H pairs response AV was significantly (p < .05) but not strongly related to AS (r = .22 and .25 for MAS and FAS) while the relation between stimulus AV and AS was approximately zero (.08 for MAS, .15 for FAS). The AS score is, therefore, more closely related to the item of a pair higher in AV, but this relationship does not account for a large part of the variance.

The RE pairs, taken from Richardson's and Erlebacher's lists (1958), their stimulus and response AV, their EL, CM, FAS, and MAS values are shown in Table 5. Goss and Nodine (1965, pp. 260-267) selected these items for an experiment. In their experiment the intent was to test

Insert Table 5 about here

Richardson's and Erlebacher's proposal that learning rate for PAs might be due to the strength of association between pair items rather than the meaningfulness of the items per se. Pairs contained all combinations of either high or low stimulus or response AV and were of relatively low or high EL (ease of learning) or CM (common meaning) as scaled by Richardson and Erlebacher. Their results gave some support to Richardson's and Erlebacher's suggestion about the importance of the relationship between pairs in determining learning rate. The ANOVA showed a strong relationship between EL and performance but a subsequent correlational analysis, partialling out the effects of AV, EL, and CM, revealed AV to be more important. The correlation coefficients between our AS value, EL and CM values for the pairs are quite high (FAS vs EL: .83; FAS vs CM: .83; MAS vs EL:...
Montague

.81; MAS vs CM: .86) leading to the conclusion that these scales measure very similar, if not the same, factors. Experiments to be described will explore the relationship between AS and performance further.

Discussion

The major results of the scalings are a pool of equal AV CVC pairs with a reliable difference in AS values between the sexes and a clearly defined relation between the AS scale and the EL and CM scale derived by Richardson and Erlebacher (1958).

The AS scale is reliable upon repeated measurements within (test-retest reliability) and between large groups of Ss. Although considerable variation in AS scores exists between pairs of given level of AV there is, as expected, a significant relationship between AV and AS. However, at best, this relationship accounts for only about 40%-50% of the variance. This finding indicates that considerable differences may be observed in learning rate between pairs of the same AV level and this factor may account for differences in interpair difficulty.

The AS-3 scaling produced results somewhat at variance with data from learning experiments (Ekstrand, 1966). It was found that AS values for items reversed in order from AS-1 correlated very highly with their AS-1 values. The AS measure is bidirectional for pairs of homogeneous AV. Since many verbal learning experiments have shown the importance of stimulus and/or response AV in directionality of association (Goss and Nodine, 1965), it is difficult to interpret the meaning of this finding for PA research. The result is probably due to the task requirements of the scaling where Ss had both items in front of them and 15 sec. in which to respond. This contrasts markedly with experimental conditions where a response must be retrieved
from memory upon presentation of its stimulus item within a few seconds.

Relation of AS to Performance

In order to demonstrate the usefulness of the AS measure several experiments were conducted. The main purpose of these studies was to demonstrate reliable differences in learning rate or in recall as a function of variations in AS value independently of stimulus-response AV. The primary problem in implementing this research was the presence of the correlation between AS and AV. Orthogonal manipulation of the two variables is not possible as the AS distributions of pairs at the various AV levels show only partial overlap. Therefore, less direct procedures were used to examine the relationship between AS and learning.

Experiment I

In this experiment four mixed lists varying in mean AS but of approximately constant mean AV were constructed, given to four independent groups to learn, and were tested after 24 hours.

Method

Materials. Four 12-pair lists were constructed from among items scaled in AS-1. Each list contained three pairs from each level of AV, but different lists were constructed of items taken from either the high, high-middle, low-middle or low parts of the FAS distribution at each level of AV. The lists with their mean AV and FAS values are shown in Table 6. The mean AV values for the lists were all approximately 55 while the mean AS values for the four lists are 43, 55, 63, and 77.

Insert Table 6 about here
Procedure. Four independent groups of 16 Ss each learned one of the lists by Battig's (1965) modification of the recall or study-test method which he calls a "correction-adjusted-learning" procedure. On any trial, after every pair has been presented, the stimuli are each presented alone during a test trial. Then pairs for which S had recalled the correct response are dropped temporarily, incorrect pairs are re-presented and re-tested, and so on until all items have been correctly recalled once. Then another trial begins with the presentation of all pairs and their testing. The Ss learned to a criterion of 11 out of 12 correct on an initial test when all stimuli were presented. Pairs were presented for 2-sec. during the learning and stimuli were presented alone for 6-sec. during testing. Different random orders were given during learning and testing for all Ss over all trials. The groups were run on the University of Illinois' PLATO system (Bitzer, Lyman, and Easley, 1966). Each S sat at a booth with a TV display on which the instructions and pairs were presented. The S typed his response using one finger on a typewriter and all responses were automatically recorded.

Following criterion attainment, Ss were given a questionnaire in which each stimulus was presented alone for S to write the response and means of associating the pair. After this a final test was given and Ss were dismissed for 24 hours.

The recall session began with brief instructions reminding them of the testing procedures and then 5 test sequences were given in which each stimulus was presented for 6 seconds. Response items were never shown. After the 5th test sequence the questionnaire was given again and the Ss wrote the response, if they recalled it, and the means they had used to associate the pair, if they could recall that.
Subjects. The Ss were 64 paid volunteer undergraduates. Twelve females and four males were run in each group. Males were run in each group because females were not available.

Results

Acquisition. When using the corrected-adjusted-learning method a measure that most adequately reveals differences in rate of learning is the number of "exposures" to criterion averaged over pairs. An exposure is counted each time a pair is presented for learning. Different pairs may have differing numbers of exposures within a trial depending on how quickly the correct response is given within a trial. The number of exposures on Trial 1 and the total number of exposures to criterion for all groups are presented in Table 7. Means are shown for each AV level within each list. The expected difference in the number of exposures on Trial 1 or until criterion as a function of AS was not found by ANOVA. The AV, which was varied within each list and thereby within Ss, was inversely related to exposures on Trial 1, F(3, 180) = 108.28, and to criterion, F(3, 180) = 82.48.

Insert Table 7 about here

Table 7 shows that at all levels of AV, Group 4 has fewer exposures to criterion than any of the other groups. Groups 1, 2, and 3 overlap and do not differ. A post hoc comparison revealed that on the total number of exposures Group 4 differed reliably from Group 1, F(1, 30) = 4.36, p < .05. The groups did not differ on the number of trials to criterion, number correct on the criterion trial, or number correct on the post-questionnaire test. The questionnaire data taken at the conclusion of session 1 were divided into categories to ascertain if AS affected verbal reports given by Ss.
The categories employed were (a) natural language mediators (NLMs) defined as any learning method reported which transformed the pair into a word, phrase or sentence; (b) instances where the S reported he learned the pair by rote repetition or could report no associative device.

The proportion of NLMs per item given by each group out of the total possible is presented in Table 7. The proportion of NLMs given increased with both AS and AV, $F(3, 60) = 5.47$; $F(3, 180) = 31.67$, respectively, both $p < .01$.

**Recall.** There was a significant decrease in the number correct on the criterion trial and the number correct on the recall trial $T_R$, $F(1, 6) = 75.04$, but the groups did not differ ($F < 1$). Recall on the repeated test trials following $T_R$ improved slightly but significantly, $F(4, 240) = 7.75$, $p < .01$, but again the groups did not differ ($F < 1$).

**Discussion**

The results provide only weak support for the validity of the AS scale. High and low AS groups (4 and 1) differed in number of exposures needed for acquisition but the difference was not large and the intermediate AS groups did not align themselves consistently as predicted. The finding concerning number of NLMs used is also anomalous, number of NLMs reported increased with AS but had no strong effect on acquisition rate.

The failure to find differences in recall among groups may be attributable to the use of the correction-adjusted-learning method. When employing a list criterion this procedure brings all items to about the same level of associative strength regardless of learning method reported (Montague and Kiess, 1966). Thus recall 24 hours after acquisition may be expected to be about equal for all groups.
**Experiment 2**

The primary purpose of this study was to obtain additional data from Ss run under the conditions of Groups 1 and 4 in the previous experiment. Since no differences in recall were found in Experiment 1, in this study only the acquisition data were obtained.

**Method**

**Procedure.** The procedures were the same as the acquisition phase of Experiment 1 except that Ss learned only the high or low AS lists. The two intermediate AS groups of Experiment 1 were not run.

**Subjects.** The Ss were 30 undergraduate females from the University of Illinois, naive to verbal learning experiments. Participation in the experiment was part of a course requirement and Ss were not paid. Fifteen Ss were run in each of the two groups.

**Results**

The mean total number of exposures to criterion, the mean number of exposures on Trial 1 and the mean number of NLMs per item are presented in Table 8. In the ANOVA, AS had no appreciable effect on Trial 1 or

\[ \text{-----------------------} \]

Insert Table 8 about here

\[ \text{-----------------------} \]

total number of exposures. Number of exposures did decrease, however, with increasing AV both on Trial 1 and to criterion, \( F(3, 84) = 61.33, \ p < .01; \ F(3, 84) = 49.92, \ p < .01 \), respectively. On Trial 1 there was also a significant AS by AV interaction, \( F(3, 84) = 3.11, \ p < .05 \). Number of NLMs given in the post-acquisition reports increased with both AS and AV, \( F(1, 28) = 15.18, \ p < .01; \ F(3, 84) = 10.14, \ p < .01 \) respectively.
Discussion

The significant difference in number of exposures to acquisition of low and high AS items found in Experiment 1 was not replicated in Experiment 2. The trend in both experiments follows that predicted by our hypothesis but the effect is not very strong. But in both experiments AS has a strong effect on number of NLMs given in the post-acquisition test.

In view of other experimental evidence for performance variations due to NLMs (e.g., Dallatt, 1964; Kiess and Montague, 1965; Underwood and Schulz, 1960, p. 297) why did we find AS effects only in reported NLMs and not in performance?

A plausible explanation of this difference between number of NLMs in Experiments 1 and 2, and rate of acquisition as a function of AS led to the third experiment. It is reasonable to assume that generation of a NLM in paired-associate learning is not instantaneous but requires a certain period of time. That is, time is required for the S to integrate the pairs into his established language structures (Mandler, 1967). It seems possible that the 2 sec. presentation interval employed was not long enough for the S to apply his language habits effectively to the materials to be learned on any one trial. It may have taken several trials for the S to form a NLM for a pair. Consequently, AS would have had little opportunity to affect rate of acquisition but may have influenced the number of NLMs reported at criterion. If this is the case, a longer presentation period should permit the S to effectively apply his language skills on the first trial and AS should affect rate of learning.

Experiment 3

The purpose of Experiment 3 was to investigate the effect of a lengthened presentation time on the speed of acquisition of low and high AS items. Experiment 3 was concerned only with acquisition and not with recall.
Montague

Method

Procedure. The method was the same as the acquisition phase of Experiment 1 and 2. Subjects were run only in the high and low AS groups and the pair presentation time was lengthened from 2 sec. to 5 sec. The recall time remained at 6 sec.

Materials. The items were the same as the low and high AS items of Experiment 1.

Subjects. The Ss were 54 undergraduate females who took part as a course requirement and Ss were not paid. Twenty-seven Ss were run in each of the two groups.

Results

The average total number of exposures to criterion, the average number of exposures on Trial 1, and the average number of NLMs per item are presented in Table 8. ANOVA revealed significant effects of both AS and AV on Trial 1 and total number of exposures. Number of exposures decreased with increasing AS both on Trial 1 and to criterion, $F(1, 52) = 9.27, p < .01; F(1, 52) = 5.17, p < .05$, respectively. Similar effects were found for increasing AV, $F(3, 156) = 93.73, p < .01; F(3, 156) = 89.54, p < .01$, respectively. The number of NLMs given increased with AS and AV, $F(1, 52) = 5.74, p < .05; F(3, 156) = 30.00, p < .01$, respectively.

Discussion

The results confirm the hypothesis that the generation and application of NLMs is a process which requires a certain period of time to operate. Bugelski (1960), Montague, Adams and Kiess (1966), and Kiess (in press) have found that time is an important variable in NLM formation. Rapid presentation rates may interfere with the encoding process so that the progress and process of learning is different from that for slower rates.
The purpose of this study was to examine the effect of AS on recall by partially replicating an experiment by Montague, Adams and Kiess (1966) using AS as an independent measure of NLM formation probability. In their study, pairs of high or low meaningfulness were presented to Ss once for a period of 15 or 30 sec. during which time S wrote down his NLM for the pair, if he had any. One day later, S was shown each stimulus and asked to recall the appropriate response and his NLM or other learning method. The reported use of NLMs was strongly associated with a high level of recall.

In the present study CVC pairs were either of high or relatively low AV and within each level of AV there were two levels of AS. It was expected that AS would be related to the number of NLMs used and thereby to the number of correct recalls independently of AV.

Method

Materials. Sixty pairs of CVCs were selected from Table 3. Thirty of the pairs contained items with a mean AV of 42 (range 38-47), while the other 30 items had a mean AV of 99 (range 99-100). Within each AV level were two levels of FAS, 15 pairs per level. Within low AV the FAS means were 37 (range 28-43) and 63 (range 52-78), and within high AV: 78 (range 61-86) and 96 (range 95-99). The 60 pairs were assigned randomly to 4 blocks of 15 with the restriction that no FAS level occurred more than 4 times per block. Sixteen different lists were constructed by varying the order of the blocks so that each block followed each other block exactly 4 times across lists. One novel sequence of blocks was used to test recall for all Ss.

Subjects. Forty-eight paid female undergraduates served as Ss.
Procedure. Groups of 10 to 16 Ss were run on the University's PLATO system (Bitzer et al, 1966). Subjects were instructed that 60 pairs would be presented once each for 15 sec., that they were to learn as many as possible during that trial and that their recall would be tested 24 hrs. later. A 5-cent bonus per correct recall was offered as an incentive to learn.

After a practice series (with letter pairs) used to familiarize them with computer controlled PA learning, the experimental list was presented. Subjects returned 24 hrs. later and recall was tested at the same presentation rate. To reduce variability in the data due to differences in typing skill, Ss were required to type with their preferred hand, hunt and peck fashion.

Results

Since AS and AV are correlated it was not possible to cross completely levels of both factors. Therefore, we used a Ss X levels ANOVA with repeated measures on the number of correct recalls for all four AS level means, and planned comparisons providing specific tests of the effect of AS with AV controlled. From the lowest AS level to the highest the mean number of recalls were .94, 1.77, 3.79 and 7.48. The overall effect was highly significant, $F(3, 141) = 119.74, p < .01$. The planned comparison between AS level means within low AV was significant also, $F(3, 47) = 4.93, p < .01$, as was the comparison of AS level means within high AV, $F(3, 47) = 96.71, p < .01$. A third orthogonal comparison provided a test of the interaction of AS and AV. The differences between the AS means for low and high AV were taken and tested $(7.48 - 3.79) - (1.77 - .94)$. The difference between the AS level means was significantly larger at high AV than at low, $F(3, 47) = 29.0, p < .01$. 5
Montague

Discussion

Not only was recall shown to be a function of AS value, but more importantly, recall varied as AS value within AV level. However, the significant interaction between AS and AV indicates that the relationship is not simple. The magnitude of the effect of AS seems to be dependent upon the level of AV. Other data from our laboratory (including Experiment 2 above) and those reported by Montague et al (1966) have shown similar trends. At low AV levels the effect of AS differences is much less than it is at high AV levels. The reason(s) for this finding are unknown. It seems likely that it may arise in the need for Ss to integrate the items into their verbal repertoires (Mandler, 1954). This process may involve considerable complexity in the form of transformations or encoding pair items before they can be associated. For low AV items many transformations or letter additions, etc., are necessary to make a meaningful word. Within a list of such pairs a large set of encoding rules might be used by a S. Therefore, for each pair at recall, S must remember how a response was encoded and how it was associated with the stimulus. It seems likely that the complexity of such encoding would differ only slightly between lists of pairs of low AV items differing in AS value. On the other hand, the much larger effect due to AS differences among pairs composed of high AV items may be produced by a relatively much larger difference in encoding complexity. For high AS pairs a single (or a very few) rule for generating NLMs may be used reducing the need to remember a rule for each pair. More rules for generating NLMs may be needed for the low AS pairs thereby raising the amount to be retained. Although we have no data bearing directly on the validity of this idea, recent research on encoding in free recall lends some support. Mueller, Edmonds and Evans (1967) report that the number of trigrams recalled by Ss is inversely related to the number of encoding rules used in learning.
Summary and Conclusions

The main objectives of the research were achieved. A reliable measure of the probability of NLM formation, AS, was scaled and it was found to be related both to learning rate and to the frequency of NLMs in post-acquisition reports.

In PA learning research it has long been fashionable to regard pair learning as a complicated analogue of conditioning where specifiable stimuli become discriminative cues for particular responses. The S is generally considered to be a passive vehicle for the demonstration of interference or transfer effects due to manipulations of stimulus and response similarity or meaningfulness. However, the fact that S searches his past language associations, transforms the items whenever necessary, and generates appropriate NLMs to link them may mask or confound variables of interest. For example, the relatively unique NLM formed for letter pairs may attenuate or eliminate interference from extra-experimental associations (Montague and Wearing, 1967b). Similarly, NLMs formed for pairs in an original list may protect those pairs from interference from an interpolated list (Adams and Montague, 1967).

A concerted, systematic attack on the problems posed by the ways in which Ss organize, structure or conceptualize the paired-associate task is long overdue. The present research, along with some discussed by Mandler (1967), has made a modest beginning in illuminating certain aspects of techniques Ss use to encode paired-associates. Furthermore, although a NLM may represent a S's unique encoding for a pair, the present data demonstrate that there is consistency across Ss in the likelihood of forming a NLM. It remains for further investigation to uncover variables determining this commonality among Ss and to investigate the full range of complexity of Ss' transformations of paired-associate lists.
References


Archer, E. J. A re-evaluation of the meaningfulness of all possible CVC trigrams. Psychological Monographs, 1960, 74, No. 10 (Whole No. 497).


Montague


Footnotes

1. This research was supported primarily by the U. S. Office of Education via Contract No. OEC 3-6-058375-0612, in part by both the Joint Services Electronics Program under Contract No. DA 28-943 AMC0073 (E) and ONR:Nonr 3985(08), and in part by a grant from the University Research Board. Successful accomplishment of the research would have been impossible without the assistance of Alexander Wearing, Rosemary Wearing, Clinton Walker and Geri Kelly.


3. One pair too few was included.

4. Alexander Wearing and Clinton Walker executed this study.

5. Recently, this experiment was replicated using an independent group of 61 Ss. Mean recall for the four AS levels was .85, 2.09, 5.82, and 9.21, values quite close to those obtained in experiment 4. Once again ANOVA revealed highly significant effects of AS within AV levels and a significant interaction between AV and AS.
<table>
<thead>
<tr>
<th>Code</th>
<th>N</th>
<th>Type of Pair</th>
</tr>
</thead>
<tbody>
<tr>
<td>AS-1</td>
<td>40</td>
<td>Equal number of pairs were taken from each AV level used in AS-1 to be used to test inter-group reliability.</td>
</tr>
<tr>
<td>RE</td>
<td>28^1</td>
<td>These pairs were scaled by Richardson &amp; Erlebacher (1958).</td>
</tr>
<tr>
<td>RS</td>
<td>80</td>
<td>These were pairs scaled in AS-1 but with S and R terms reversed here to examine bidirectionality. Twenty pairs were selected from each AV level.</td>
</tr>
<tr>
<td>HL</td>
<td>60</td>
<td>Pairs with high stimulus AV (96-100) and low AV (13-22) response.</td>
</tr>
<tr>
<td>LH</td>
<td>59^1</td>
<td>Pairs with low stimulus AV (13-22) and high AV (96-100) response.</td>
</tr>
<tr>
<td>H-H</td>
<td>25</td>
<td>Pairs with high AV stimuli and responses</td>
</tr>
<tr>
<td>L-L</td>
<td>24^1</td>
<td>Pairs with low AV stimuli and responses</td>
</tr>
</tbody>
</table>

^1 pairs were lost because of clerical errors discovered after scaling.
Table 2

Correlations of Mean AV for the Pairs from AS-1 and AS-2 with MAS and FAS Values

<table>
<thead>
<tr>
<th>Correlation</th>
<th>AV level</th>
<th>low</th>
<th>low-mid</th>
<th>high-mid</th>
<th>high</th>
<th>overall pairs</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AV-MAS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AS-1</td>
<td>.17</td>
<td>.01</td>
<td>.01</td>
<td>.05</td>
<td>.23</td>
<td></td>
</tr>
<tr>
<td>AS-2</td>
<td>.06</td>
<td>.09</td>
<td>-.04</td>
<td>.29</td>
<td>.69</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>AV-FAS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AS-1</td>
<td>.10</td>
<td>.10</td>
<td>.04</td>
<td>.04</td>
<td>.28</td>
<td></td>
</tr>
<tr>
<td>AS-2</td>
<td>-.02</td>
<td>.06</td>
<td>.04</td>
<td>.17</td>
<td>.68</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>MAS-FAS</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>AS-1</td>
<td>.79</td>
<td>.85</td>
<td>.86</td>
<td>.88</td>
<td>.97</td>
<td></td>
</tr>
<tr>
<td>AS-2</td>
<td>.74</td>
<td>.85</td>
<td>.88</td>
<td>.89</td>
<td>.98</td>
<td></td>
</tr>
</tbody>
</table>
Table 3

Associability Value of Pairs of CVCs of Approximately Equal Association Value from Three Scalings Arranged in Terms of Increasing-Mean AS Value

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>YUX QEH</td>
<td>2</td>
<td>14</td>
<td>13</td>
<td>8</td>
<td>14</td>
<td>11</td>
</tr>
<tr>
<td>FEP YOQ</td>
<td>3</td>
<td>14</td>
<td>14</td>
<td>10</td>
<td>13</td>
<td>11</td>
</tr>
<tr>
<td>GEX ZIJ</td>
<td>2</td>
<td>9</td>
<td>4</td>
<td>8</td>
<td>16</td>
<td>12</td>
</tr>
<tr>
<td>YIV QUW</td>
<td>2</td>
<td>7</td>
<td>13</td>
<td>9</td>
<td>16</td>
<td>13</td>
</tr>
<tr>
<td>XAF JIH</td>
<td>2</td>
<td>8</td>
<td>13</td>
<td>8</td>
<td>18</td>
<td>13</td>
</tr>
<tr>
<td>ZIY XIB</td>
<td>1</td>
<td>8</td>
<td>6</td>
<td>13</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>YIJ XIH</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>10</td>
<td>17</td>
<td>13</td>
</tr>
<tr>
<td>YAV ZUQ</td>
<td>2</td>
<td>9</td>
<td>12</td>
<td>13</td>
<td>14</td>
<td>13</td>
</tr>
<tr>
<td>XEQ KUJ</td>
<td>2</td>
<td>6</td>
<td>7</td>
<td>12</td>
<td>15</td>
<td>13</td>
</tr>
<tr>
<td>YIX HUJ</td>
<td>2</td>
<td>9</td>
<td>14</td>
<td>7</td>
<td>22</td>
<td>14</td>
</tr>
<tr>
<td>QOJ ZUV</td>
<td>2</td>
<td>4</td>
<td>13</td>
<td>12</td>
<td>17</td>
<td>14</td>
</tr>
<tr>
<td>XAJ VUQ</td>
<td>2</td>
<td>5</td>
<td>6</td>
<td>11</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>XUT NEJ</td>
<td>2</td>
<td>8</td>
<td>15</td>
<td>11</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>GUC PEV</td>
<td>2</td>
<td>47</td>
<td>46</td>
<td>5</td>
<td>23</td>
<td>15</td>
</tr>
<tr>
<td>XU XUY</td>
<td>3</td>
<td>2</td>
<td>3</td>
<td>15</td>
<td>14</td>
<td>15</td>
</tr>
<tr>
<td>ZIY TEJ</td>
<td>2</td>
<td>8</td>
<td>9</td>
<td>15</td>
<td>15</td>
<td>15</td>
</tr>
<tr>
<td>YIB FEJ</td>
<td>2</td>
<td>16</td>
<td>11</td>
<td>12</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>XAL FEP</td>
<td>2</td>
<td>12</td>
<td>14</td>
<td>13</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>ZEG YIG</td>
<td>2</td>
<td>6</td>
<td>10</td>
<td>10</td>
<td>21</td>
<td>15</td>
</tr>
<tr>
<td>YOF QAV</td>
<td>2</td>
<td>10</td>
<td>14</td>
<td>10</td>
<td>21</td>
<td>15</td>
</tr>
<tr>
<td>XOG YUJ</td>
<td>3</td>
<td>9</td>
<td>9</td>
<td>13</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>XUJ YEV</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>13</td>
<td>18</td>
<td>15</td>
</tr>
<tr>
<td>ZUJ XAH</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>12</td>
<td>19</td>
<td>15</td>
</tr>
<tr>
<td>VUJ QUG</td>
<td>2</td>
<td>9</td>
<td>14</td>
<td>11</td>
<td>21</td>
<td>16</td>
</tr>
<tr>
<td>YEV XUJ</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>QEF WUG</td>
<td>1</td>
<td>8</td>
<td>8</td>
<td>16</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>ZIJ XIY</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>15</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>CJI XOH</td>
<td>1</td>
<td>8</td>
<td>7</td>
<td>16</td>
<td>17</td>
<td>16</td>
</tr>
<tr>
<td>XEM QOV</td>
<td>2</td>
<td>11</td>
<td>14</td>
<td>17</td>
<td>16</td>
<td>16</td>
</tr>
<tr>
<td>QUX RIW</td>
<td>2</td>
<td>9</td>
<td>15</td>
<td>11</td>
<td>22</td>
<td>16</td>
</tr>
<tr>
<td>XON GUQ</td>
<td>2</td>
<td>9</td>
<td>11</td>
<td>8</td>
<td>.24</td>
<td>16</td>
</tr>
<tr>
<td>VUQ YEJ</td>
<td>1</td>
<td>6</td>
<td>4</td>
<td>11</td>
<td>22</td>
<td>16</td>
</tr>
<tr>
<td>VUB VEF</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>11</td>
<td>22</td>
<td>16</td>
</tr>
<tr>
<td>VUP NEJ</td>
<td>3</td>
<td>14</td>
<td>15</td>
<td>13</td>
<td>20</td>
<td>17</td>
</tr>
<tr>
<td>XIB FAJ</td>
<td>2</td>
<td>6</td>
<td>10</td>
<td>15</td>
<td>18</td>
<td>17</td>
</tr>
<tr>
<td>YEF XIG</td>
<td>1</td>
<td>11</td>
<td>11</td>
<td>13</td>
<td>30</td>
<td>17</td>
</tr>
<tr>
<td>YUF XOL</td>
<td>1</td>
<td>9</td>
<td>9</td>
<td>14</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>ZEH QOK</td>
<td>2</td>
<td>14</td>
<td>15</td>
<td>15</td>
<td>19</td>
<td>17</td>
</tr>
<tr>
<td>ZUY QUX</td>
<td>1</td>
<td>8</td>
<td>9</td>
<td>18</td>
<td>17</td>
<td>17</td>
</tr>
<tr>
<td>ZUX POJ</td>
<td>2</td>
<td>14</td>
<td>15</td>
<td>17</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>JOF BUV</td>
<td>3</td>
<td>19</td>
<td>15</td>
<td>19</td>
<td>16</td>
<td>18</td>
</tr>
<tr>
<td>BUV ZEQ</td>
<td>2</td>
<td>15</td>
<td>15</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>VUB JIQ</td>
<td>2</td>
<td>12</td>
<td>13</td>
<td>16</td>
<td>20</td>
<td>18</td>
</tr>
<tr>
<td>ZOF QIH</td>
<td>2</td>
<td>11</td>
<td>6</td>
<td>15</td>
<td>21</td>
<td>18</td>
</tr>
<tr>
<td>QAZ YAJ</td>
<td>1</td>
<td>10</td>
<td>9</td>
<td>18</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td>----------</td>
<td>-------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>XUB ZUF</td>
<td>1</td>
<td>8</td>
<td>8</td>
<td>23</td>
<td>13</td>
<td>18</td>
</tr>
<tr>
<td>XEQ XAJ</td>
<td>1</td>
<td>6</td>
<td>5</td>
<td>19</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>YIW XEV</td>
<td>2</td>
<td>14</td>
<td>6</td>
<td>12</td>
<td>24</td>
<td>18</td>
</tr>
<tr>
<td>YAF CEJ</td>
<td>3</td>
<td>19</td>
<td>17</td>
<td>16</td>
<td>21</td>
<td>18</td>
</tr>
<tr>
<td>KOJ CIW</td>
<td>2</td>
<td>12</td>
<td>13</td>
<td>20</td>
<td>17</td>
<td>18</td>
</tr>
<tr>
<td>YEQ XUV</td>
<td>1</td>
<td>4</td>
<td>4</td>
<td>15</td>
<td>22</td>
<td>18</td>
</tr>
<tr>
<td>ZOQ YUB</td>
<td>2</td>
<td>10</td>
<td>14</td>
<td>17</td>
<td>21</td>
<td>19</td>
</tr>
<tr>
<td>QEV JIY</td>
<td>2</td>
<td>12</td>
<td>14</td>
<td>14</td>
<td>23</td>
<td>19</td>
</tr>
<tr>
<td>XUK XAZ</td>
<td>1</td>
<td>5</td>
<td>2</td>
<td>21</td>
<td>18</td>
<td>19</td>
</tr>
<tr>
<td>TJ XAD</td>
<td>2</td>
<td>13</td>
<td>7</td>
<td>16</td>
<td>23</td>
<td>19</td>
</tr>
<tr>
<td>XOL QEC</td>
<td>2</td>
<td>9</td>
<td>16</td>
<td>14</td>
<td>24</td>
<td>19</td>
</tr>
<tr>
<td>NOJ QUH</td>
<td>3</td>
<td>12</td>
<td>12</td>
<td>18</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>DUJ XEP</td>
<td>2</td>
<td>13</td>
<td>13</td>
<td>18</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>YEY GAQ</td>
<td>2</td>
<td>5</td>
<td>11</td>
<td>20</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>XIY ZIJ</td>
<td>3</td>
<td>4</td>
<td>4</td>
<td>17</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>XUY XJU</td>
<td>1</td>
<td>3</td>
<td>2</td>
<td>20</td>
<td>19</td>
<td>20</td>
</tr>
<tr>
<td>XUW XEG</td>
<td>1</td>
<td>5</td>
<td>5</td>
<td>19</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>CIQ ZOV</td>
<td>2</td>
<td>15</td>
<td>15</td>
<td>18</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>YOX NUJ</td>
<td>2</td>
<td>16</td>
<td>7</td>
<td>17</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>KEJ QEB</td>
<td>2</td>
<td>16</td>
<td>16</td>
<td>13</td>
<td>27</td>
<td>20</td>
</tr>
<tr>
<td>VAJ GEQ</td>
<td>3</td>
<td>12</td>
<td>11</td>
<td>20</td>
<td>20</td>
<td>20</td>
</tr>
<tr>
<td>XOC VOF</td>
<td>1</td>
<td>9</td>
<td>10</td>
<td>22</td>
<td>18</td>
<td>20</td>
</tr>
<tr>
<td>FEJ VOJ</td>
<td>1</td>
<td>11</td>
<td>11</td>
<td>18</td>
<td>23</td>
<td>20</td>
</tr>
<tr>
<td>XOJ QIJ</td>
<td>1</td>
<td>2</td>
<td>5</td>
<td>13</td>
<td>27</td>
<td>20</td>
</tr>
</tbody>
</table>
## Table 3

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>T EJ QIW</td>
<td>3</td>
<td>9</td>
<td>10</td>
<td>20</td>
<td>21</td>
<td>20</td>
</tr>
<tr>
<td>X IY QOH</td>
<td>2</td>
<td>4</td>
<td>8</td>
<td>15</td>
<td>26</td>
<td>20</td>
</tr>
<tr>
<td>Q EF BOJ</td>
<td>2</td>
<td>8</td>
<td>16</td>
<td>19</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>K UQ ZAJ</td>
<td>2</td>
<td>11</td>
<td>8</td>
<td>19</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>G IW F EQ</td>
<td>2</td>
<td>16</td>
<td>11</td>
<td>19</td>
<td>22</td>
<td>20</td>
</tr>
<tr>
<td>X OD Z UQ</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>21</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>Q EB D UJ</td>
<td>3</td>
<td>16</td>
<td>16</td>
<td>20</td>
<td>22</td>
<td>21</td>
</tr>
<tr>
<td>Y AV X AQ</td>
<td>1</td>
<td>9</td>
<td>10</td>
<td>20</td>
<td>22</td>
<td>21</td>
</tr>
<tr>
<td>Y EQ X IL</td>
<td>2</td>
<td>4</td>
<td>13</td>
<td>20</td>
<td>22</td>
<td>21</td>
</tr>
<tr>
<td>J IH Y EB</td>
<td>3</td>
<td>13</td>
<td>13</td>
<td>22</td>
<td>21</td>
<td>21</td>
</tr>
<tr>
<td>X UG K UJ</td>
<td>3</td>
<td>6</td>
<td>7</td>
<td>20</td>
<td>23</td>
<td>21</td>
</tr>
<tr>
<td>W UQ Q EF</td>
<td>3</td>
<td>8</td>
<td>8</td>
<td>18</td>
<td>24</td>
<td>21</td>
</tr>
<tr>
<td>Y IV W UJ</td>
<td>1</td>
<td>7</td>
<td>8</td>
<td>16</td>
<td>27</td>
<td>21</td>
</tr>
<tr>
<td>W OJ Q AH</td>
<td>2</td>
<td>13</td>
<td>14</td>
<td>18</td>
<td>25</td>
<td>21</td>
</tr>
<tr>
<td>M OJ Y I Q</td>
<td>2</td>
<td>13</td>
<td>11</td>
<td>17</td>
<td>26</td>
<td>21</td>
</tr>
<tr>
<td>G EQ X OT</td>
<td>2</td>
<td>11</td>
<td>9</td>
<td>15</td>
<td>28</td>
<td>21</td>
</tr>
<tr>
<td>F OJ G UQ</td>
<td>3</td>
<td>11</td>
<td>11</td>
<td>18</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>X I G Y EF</td>
<td>3</td>
<td>11</td>
<td>11</td>
<td>18</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>C UQ Q IF</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>18</td>
<td>26</td>
<td>22</td>
</tr>
<tr>
<td>G AQ D U J</td>
<td>1</td>
<td>11</td>
<td>13</td>
<td>18</td>
<td>26</td>
<td>22</td>
</tr>
<tr>
<td>K EV G OC</td>
<td>2</td>
<td>46</td>
<td>46</td>
<td>18</td>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td>Q AM J AH</td>
<td>3</td>
<td>44</td>
<td>44</td>
<td>18</td>
<td>27</td>
<td>22</td>
</tr>
<tr>
<td>K UJ X UG</td>
<td>1</td>
<td>7</td>
<td>6</td>
<td>20</td>
<td>24</td>
<td>22</td>
</tr>
</tbody>
</table>
Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>SAV</th>
<th>RAV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZIH</td>
<td>XEY</td>
<td>1</td>
<td>6</td>
<td>6</td>
<td>24</td>
<td>21</td>
</tr>
<tr>
<td>QEJ</td>
<td>QUJ</td>
<td>1</td>
<td>6</td>
<td>3</td>
<td>17</td>
<td>28</td>
</tr>
<tr>
<td>ZUF</td>
<td>XEC</td>
<td>2</td>
<td>8</td>
<td>9</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>CUJ</td>
<td>ZIW</td>
<td>2</td>
<td>15</td>
<td>5</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>YIW</td>
<td>POJ</td>
<td>3</td>
<td>14</td>
<td>15</td>
<td>23</td>
<td>22</td>
</tr>
<tr>
<td>PUV</td>
<td>YIH</td>
<td>3</td>
<td>22</td>
<td>13</td>
<td>22</td>
<td>23</td>
</tr>
<tr>
<td>XUS</td>
<td>XUF</td>
<td>3</td>
<td>5</td>
<td>3</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>XOM</td>
<td>VUF</td>
<td>3</td>
<td>10</td>
<td>67</td>
<td>19</td>
<td>26</td>
</tr>
<tr>
<td>YEF</td>
<td>XOC</td>
<td>2</td>
<td>11</td>
<td>9</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>MOF</td>
<td>WEJ</td>
<td>2</td>
<td>40</td>
<td>42</td>
<td>15</td>
<td>31</td>
</tr>
<tr>
<td>QUH</td>
<td>NOJ</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>20</td>
<td>26</td>
</tr>
<tr>
<td>KIF</td>
<td>XAC</td>
<td>3</td>
<td>17</td>
<td>18</td>
<td>24</td>
<td>22</td>
</tr>
<tr>
<td>HAJ</td>
<td>NUQ</td>
<td>3</td>
<td>18</td>
<td>13</td>
<td>22</td>
<td>24</td>
</tr>
<tr>
<td>GEQ</td>
<td>VAJ</td>
<td>1</td>
<td>11</td>
<td>12</td>
<td>19</td>
<td>27</td>
</tr>
<tr>
<td>LUJ</td>
<td>XAH</td>
<td>2</td>
<td>10</td>
<td>15</td>
<td>21</td>
<td>26</td>
</tr>
<tr>
<td>XOZ</td>
<td>XUQ</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>18</td>
<td>28</td>
</tr>
<tr>
<td>QOS</td>
<td>XEB</td>
<td>3</td>
<td>19</td>
<td>17</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>XIQ</td>
<td>XEJ</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>23</td>
<td>23</td>
</tr>
<tr>
<td>VOQ</td>
<td>TIW</td>
<td>3</td>
<td>15</td>
<td>18</td>
<td>19</td>
<td>28</td>
</tr>
<tr>
<td>QEV</td>
<td>ZOF</td>
<td>1</td>
<td>12</td>
<td>11</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>YIG</td>
<td>LUJ</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>25</td>
<td>22</td>
</tr>
<tr>
<td>SUJ</td>
<td>YOQ</td>
<td>2</td>
<td>14</td>
<td>14</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>XOL</td>
<td>YUF</td>
<td>3</td>
<td>9</td>
<td>9</td>
<td>23</td>
<td>25</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>QIF CUQ</td>
<td>3</td>
<td>12</td>
<td>12</td>
<td>21</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td>QIH XIW</td>
<td>1</td>
<td>6</td>
<td>3</td>
<td>23</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>XUP QIY</td>
<td>1</td>
<td>7</td>
<td>8</td>
<td>25</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>XIC QEX</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>24</td>
<td>23</td>
<td>24</td>
</tr>
<tr>
<td>XUF XUZ</td>
<td>1</td>
<td>3</td>
<td>5</td>
<td>23</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>LAJ VUP</td>
<td>2</td>
<td>14</td>
<td>14</td>
<td>22</td>
<td>26</td>
<td>24</td>
</tr>
<tr>
<td>YAJ VEF</td>
<td>2</td>
<td>7</td>
<td>12</td>
<td>20</td>
<td>28</td>
<td>24</td>
</tr>
<tr>
<td>GEJ QAZ</td>
<td>2</td>
<td>9</td>
<td>10</td>
<td>18</td>
<td>29</td>
<td>24</td>
</tr>
<tr>
<td>QUC YIH</td>
<td>2</td>
<td>15</td>
<td>13</td>
<td>23</td>
<td>25</td>
<td>24</td>
</tr>
<tr>
<td>XUL HIJ</td>
<td>2</td>
<td>7</td>
<td>10</td>
<td>22</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td>VOQ XUD</td>
<td>2</td>
<td>15</td>
<td>6</td>
<td>19</td>
<td>29</td>
<td>24</td>
</tr>
<tr>
<td>ZIF PEJ</td>
<td>3</td>
<td>20</td>
<td>17</td>
<td>22</td>
<td>27</td>
<td>24</td>
</tr>
<tr>
<td>XEZ XAB</td>
<td>1</td>
<td>7</td>
<td>8</td>
<td>25</td>
<td>24</td>
<td>25</td>
</tr>
<tr>
<td>HAQ Z.IV</td>
<td>2</td>
<td>45</td>
<td>39</td>
<td>19</td>
<td>31</td>
<td>25</td>
</tr>
<tr>
<td>WUQ XIR</td>
<td>2</td>
<td>13</td>
<td>12</td>
<td>18</td>
<td>32</td>
<td>25</td>
</tr>
<tr>
<td>QUF XOR</td>
<td>3</td>
<td>19</td>
<td>19</td>
<td>20</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>XET QAJ</td>
<td>1</td>
<td>11</td>
<td>11</td>
<td>20</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>GUQ FOJ</td>
<td>1</td>
<td>11</td>
<td>11</td>
<td>20</td>
<td>30</td>
<td>25</td>
</tr>
<tr>
<td>XER QAJ</td>
<td>2</td>
<td>11</td>
<td>12</td>
<td>20</td>
<td>31</td>
<td>25</td>
</tr>
<tr>
<td>NJ ZEJ</td>
<td>1</td>
<td>7</td>
<td>6</td>
<td>23</td>
<td>28</td>
<td>25</td>
</tr>
<tr>
<td>YOF YIX</td>
<td>1</td>
<td>10</td>
<td>9</td>
<td>24</td>
<td>27</td>
<td>25</td>
</tr>
<tr>
<td>VUF XOM</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>24</td>
<td>27</td>
<td>25</td>
</tr>
<tr>
<td>RAX YOC</td>
<td>1</td>
<td>47</td>
<td>44</td>
<td>22</td>
<td>29</td>
<td>25</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td>---------</td>
<td>-----------------</td>
<td>-------</td>
<td>-------</td>
<td>------</td>
<td>------</td>
<td>---------</td>
</tr>
<tr>
<td>XAW</td>
<td>DJ</td>
<td>2</td>
<td>8</td>
<td>16</td>
<td>18</td>
<td>33</td>
</tr>
<tr>
<td>XER</td>
<td>YIQ</td>
<td>1</td>
<td>12</td>
<td>11</td>
<td>22</td>
<td>30</td>
</tr>
<tr>
<td>XIM</td>
<td>YEB</td>
<td>2</td>
<td>11</td>
<td>13</td>
<td>22</td>
<td>30</td>
</tr>
<tr>
<td>YUJ</td>
<td>XOG</td>
<td>1</td>
<td>9</td>
<td>9</td>
<td>23</td>
<td>30</td>
</tr>
<tr>
<td>KUQ</td>
<td>FEQ</td>
<td>1</td>
<td>11</td>
<td>11</td>
<td>28</td>
<td>25</td>
</tr>
<tr>
<td>QIG</td>
<td>ZOS</td>
<td>2</td>
<td>14</td>
<td>13</td>
<td>25</td>
<td>28</td>
</tr>
<tr>
<td>FAP</td>
<td>PUW</td>
<td>1</td>
<td>44</td>
<td>43</td>
<td>26</td>
<td>28</td>
</tr>
<tr>
<td>CUW</td>
<td>VOK</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>25</td>
<td>29</td>
</tr>
<tr>
<td>KEX</td>
<td>LUQ</td>
<td>2</td>
<td>39</td>
<td>42</td>
<td>19</td>
<td>35</td>
</tr>
<tr>
<td>VOH</td>
<td>RUJ</td>
<td>3</td>
<td>16</td>
<td>18</td>
<td>30</td>
<td>24</td>
</tr>
<tr>
<td>CIB</td>
<td>MOY</td>
<td>3</td>
<td>47</td>
<td>45</td>
<td>23</td>
<td>32</td>
</tr>
<tr>
<td>XOY</td>
<td>XUH</td>
<td>1</td>
<td>3</td>
<td>4</td>
<td>24</td>
<td>31</td>
</tr>
<tr>
<td>YUS</td>
<td>MIP</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>26</td>
<td>30</td>
</tr>
<tr>
<td>XEW</td>
<td>QOH</td>
<td>3</td>
<td>7</td>
<td>8</td>
<td>29</td>
<td>27</td>
</tr>
<tr>
<td>LIY</td>
<td>ZEP</td>
<td>2</td>
<td>46</td>
<td>46</td>
<td>28</td>
<td>28</td>
</tr>
<tr>
<td>ZEV</td>
<td>GAX</td>
<td>3</td>
<td>19</td>
<td>19</td>
<td>28</td>
<td>29</td>
</tr>
<tr>
<td>XAG</td>
<td>BOJ</td>
<td>3</td>
<td>19</td>
<td>16</td>
<td>25</td>
<td>32</td>
</tr>
<tr>
<td>XUL</td>
<td>XEV</td>
<td>1</td>
<td>7</td>
<td>6</td>
<td>30</td>
<td>27</td>
</tr>
<tr>
<td>GEJ</td>
<td>VUJ</td>
<td>1</td>
<td>9</td>
<td>9</td>
<td>23</td>
<td>34</td>
</tr>
<tr>
<td>YUF</td>
<td>GIX</td>
<td>2</td>
<td>9</td>
<td>11</td>
<td>25</td>
<td>32</td>
</tr>
<tr>
<td>XUR</td>
<td>FOJ</td>
<td>2</td>
<td>9</td>
<td>11</td>
<td>23</td>
<td>34</td>
</tr>
<tr>
<td>XOP</td>
<td>XOK</td>
<td>1</td>
<td>7</td>
<td>7</td>
<td>25</td>
<td>32</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>S No. of Scaling</td>
<td>AS</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
</tr>
<tr>
<td>----------</td>
<td>----------------</td>
<td>-----</td>
<td>-------</td>
<td>-------</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>XID XUC</td>
<td>1</td>
<td>9</td>
<td>10</td>
<td>27</td>
<td>31</td>
<td>29</td>
</tr>
<tr>
<td>VIB PAF</td>
<td>1</td>
<td>40</td>
<td>40</td>
<td>24</td>
<td>33</td>
<td>29</td>
</tr>
<tr>
<td>XIF XEF</td>
<td>1</td>
<td>5</td>
<td>3</td>
<td>23</td>
<td>34</td>
<td>29</td>
</tr>
<tr>
<td>KIH QUV</td>
<td>2</td>
<td>15</td>
<td>9</td>
<td>25</td>
<td>33</td>
<td>29</td>
</tr>
<tr>
<td>XOP MUJ</td>
<td>2</td>
<td>7</td>
<td>10</td>
<td>21</td>
<td>37</td>
<td>29</td>
</tr>
<tr>
<td>PAF NUJ</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>20</td>
<td>38</td>
<td>29</td>
</tr>
<tr>
<td>HIB ZAN</td>
<td>1</td>
<td>44</td>
<td>43</td>
<td>33</td>
<td>26</td>
<td>29</td>
</tr>
<tr>
<td>QOH XEW</td>
<td>1</td>
<td>8</td>
<td>7</td>
<td>28</td>
<td>31</td>
<td>29</td>
</tr>
<tr>
<td>XAL GIJ</td>
<td>1</td>
<td>12</td>
<td>13</td>
<td>28</td>
<td>31</td>
<td>30</td>
</tr>
<tr>
<td>GOX NUV</td>
<td>2</td>
<td>12</td>
<td>15</td>
<td>26</td>
<td>33</td>
<td>30</td>
</tr>
<tr>
<td>KOJ XIR</td>
<td>1</td>
<td>12</td>
<td>12</td>
<td>33</td>
<td>27</td>
<td>30</td>
</tr>
<tr>
<td>QOJ ZOJ</td>
<td>1</td>
<td>4</td>
<td>3</td>
<td>28</td>
<td>32</td>
<td>30</td>
</tr>
<tr>
<td>WEX QAY</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>31</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>GOK BEH</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>28</td>
<td>33</td>
<td>30</td>
</tr>
<tr>
<td>GEX QUV</td>
<td>1</td>
<td>9</td>
<td>9</td>
<td>33</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>DEJ XEM</td>
<td>1</td>
<td>13</td>
<td>11</td>
<td>31</td>
<td>29</td>
<td>30</td>
</tr>
<tr>
<td>XOB GIX</td>
<td>1</td>
<td>12</td>
<td>11</td>
<td>28</td>
<td>33</td>
<td>30</td>
</tr>
<tr>
<td>RUV QOF</td>
<td>3</td>
<td>16</td>
<td>20</td>
<td>31</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td>QIW TEJ</td>
<td>1</td>
<td>10</td>
<td>9</td>
<td>23</td>
<td>38</td>
<td>30</td>
</tr>
<tr>
<td>FAJ XOT</td>
<td>1</td>
<td>10</td>
<td>9</td>
<td>27</td>
<td>34</td>
<td>30</td>
</tr>
<tr>
<td>ZUT REJ</td>
<td>1</td>
<td>38</td>
<td>39</td>
<td>33</td>
<td>28</td>
<td>31</td>
</tr>
<tr>
<td>PEV HAQ</td>
<td>1</td>
<td>46</td>
<td>45</td>
<td>31</td>
<td>31</td>
<td>31</td>
</tr>
</tbody>
</table>
Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of</th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S</td>
<td>R</td>
<td>S</td>
<td>R</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td></td>
<td>Scaling</td>
<td>AV</td>
<td>AV</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>XEH</td>
<td>XOY</td>
<td>1</td>
<td>5</td>
<td>4</td>
<td>33</td>
<td>29</td>
<td>31</td>
</tr>
<tr>
<td>XOS</td>
<td>XOQ</td>
<td>1</td>
<td>6</td>
<td>6</td>
<td>24</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>QUJ</td>
<td>QEJ</td>
<td>3</td>
<td>3</td>
<td>6</td>
<td>27</td>
<td>36</td>
<td>31</td>
</tr>
<tr>
<td>FUB</td>
<td>KEX</td>
<td>1</td>
<td>40</td>
<td>39</td>
<td>25</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>VAJ</td>
<td>XIS</td>
<td>2</td>
<td>12</td>
<td>14</td>
<td>30</td>
<td>33</td>
<td>31</td>
</tr>
<tr>
<td>GOQ</td>
<td>XUM</td>
<td>2</td>
<td>13</td>
<td>13</td>
<td>25</td>
<td>38</td>
<td>31</td>
</tr>
<tr>
<td>BIW</td>
<td>VOF</td>
<td>2</td>
<td>15</td>
<td>10</td>
<td>23</td>
<td>40</td>
<td>31</td>
</tr>
<tr>
<td>TOJ</td>
<td>GAC</td>
<td>3</td>
<td>17</td>
<td>17</td>
<td>28</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>GOC</td>
<td>YOS</td>
<td>1</td>
<td>39</td>
<td>38</td>
<td>28</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>PEX</td>
<td>DUT</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>28</td>
<td>36</td>
<td>32</td>
</tr>
<tr>
<td>KEJ</td>
<td>MIV</td>
<td>3</td>
<td>16</td>
<td>17</td>
<td>30</td>
<td>34</td>
<td>32</td>
</tr>
<tr>
<td>TEV</td>
<td>DOQ</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>28</td>
<td>37</td>
<td>32</td>
</tr>
<tr>
<td>VEM</td>
<td>LIG</td>
<td>1</td>
<td>46</td>
<td>46</td>
<td>31</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>WUM</td>
<td>FIP</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>30</td>
<td>35</td>
<td>33</td>
</tr>
<tr>
<td>GUB</td>
<td>WEH</td>
<td>2</td>
<td>40</td>
<td>41</td>
<td>29</td>
<td>36</td>
<td>33</td>
</tr>
<tr>
<td>YAQ</td>
<td>TOF</td>
<td>2</td>
<td>47</td>
<td>47</td>
<td>33</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>ZAN</td>
<td>HIB</td>
<td>3</td>
<td>43</td>
<td>44</td>
<td>32</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>XUT</td>
<td>XIK</td>
<td>3</td>
<td>8</td>
<td>6</td>
<td>33</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>QEP</td>
<td>TUV</td>
<td>3</td>
<td>13</td>
<td>16</td>
<td>33</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>GUJ</td>
<td>GOX</td>
<td>1</td>
<td>11</td>
<td>12</td>
<td>42</td>
<td>25</td>
<td>33</td>
</tr>
<tr>
<td>TIQ</td>
<td>GEP</td>
<td>1</td>
<td>41</td>
<td>41</td>
<td>32</td>
<td>35</td>
<td>33</td>
</tr>
<tr>
<td>FUB</td>
<td>WIX</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>33</td>
<td>34</td>
<td>33</td>
</tr>
<tr>
<td>YOS</td>
<td>PUQ</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>30</td>
<td>37</td>
<td>33</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
<td></td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
<td></td>
</tr>
<tr>
<td>KUB NOP</td>
<td>2</td>
<td>70</td>
<td>72</td>
<td>29</td>
<td>38</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>KIJ XAD</td>
<td>1</td>
<td>8</td>
<td>7</td>
<td>30</td>
<td>38</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>TOZ TEV</td>
<td>1</td>
<td>40</td>
<td>40</td>
<td>27</td>
<td>41</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>HEQ ZAN</td>
<td>2</td>
<td>38</td>
<td>43</td>
<td>28</td>
<td>40</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>XUM CIW</td>
<td>3</td>
<td>13</td>
<td>15</td>
<td>31</td>
<td>38</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>MOY CIB</td>
<td>1</td>
<td>45</td>
<td>47</td>
<td>33</td>
<td>35</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>WAB GOK</td>
<td>1</td>
<td>39</td>
<td>40</td>
<td>30</td>
<td>38</td>
<td>34</td>
<td></td>
</tr>
<tr>
<td>YOP ZAD</td>
<td>1</td>
<td>38</td>
<td>38</td>
<td>31</td>
<td>38</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>HUJ XAN</td>
<td>3</td>
<td>14</td>
<td>14</td>
<td>28</td>
<td>42</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>TIQ VAY</td>
<td>2</td>
<td>41</td>
<td>43</td>
<td>35</td>
<td>35</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>GOJ ZOQ</td>
<td>1</td>
<td>11</td>
<td>10</td>
<td>31</td>
<td>39</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>ZAJ XIZ</td>
<td>1</td>
<td>8</td>
<td>6</td>
<td>29</td>
<td>41</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>HEG TUD</td>
<td>2</td>
<td>45</td>
<td>47</td>
<td>31</td>
<td>40</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>BEW GEB</td>
<td>1</td>
<td>42</td>
<td>42</td>
<td>35</td>
<td>36</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>JUK QAM</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>29</td>
<td>42</td>
<td>35</td>
<td></td>
</tr>
<tr>
<td>HEG SUG</td>
<td>1</td>
<td>45</td>
<td>47</td>
<td>35</td>
<td>37</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>NIR GEP</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>35</td>
<td>37</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>GOZ MUQ</td>
<td>2</td>
<td>45</td>
<td>38</td>
<td>34</td>
<td>38</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>GOQ XIM</td>
<td>1</td>
<td>13</td>
<td>11</td>
<td>32</td>
<td>41</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>NEQ KIB</td>
<td>1</td>
<td>42</td>
<td>44</td>
<td>32</td>
<td>41</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>TOZ RUC</td>
<td>2</td>
<td>40</td>
<td>47</td>
<td>35</td>
<td>38</td>
<td>36</td>
<td></td>
</tr>
<tr>
<td>YOT PUH</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>33</td>
<td>39</td>
<td>36</td>
<td></td>
</tr>
</tbody>
</table>
Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AS</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAH QAM</td>
<td>1</td>
<td>44</td>
<td>44</td>
<td>30</td>
<td>45</td>
<td>37</td>
</tr>
<tr>
<td>XEK XUS</td>
<td>1</td>
<td>8</td>
<td>6</td>
<td>37</td>
<td>37</td>
<td>37</td>
</tr>
<tr>
<td>SOZ NID</td>
<td>2</td>
<td>38</td>
<td>44</td>
<td>38</td>
<td>36</td>
<td>37</td>
</tr>
<tr>
<td>WOG SUY</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>34</td>
<td>40</td>
<td>37</td>
</tr>
<tr>
<td>DOY QAC</td>
<td>2</td>
<td>39</td>
<td>47</td>
<td>32</td>
<td>43</td>
<td>37</td>
</tr>
<tr>
<td>CIP HUX</td>
<td>3</td>
<td>75</td>
<td>75</td>
<td>38</td>
<td>37</td>
<td>37</td>
</tr>
<tr>
<td>WOG CEK</td>
<td>3</td>
<td>38</td>
<td>40</td>
<td>38</td>
<td>37</td>
<td>37</td>
</tr>
<tr>
<td>XIS JUF</td>
<td>3</td>
<td>14</td>
<td>18</td>
<td>32</td>
<td>43</td>
<td>37</td>
</tr>
<tr>
<td>PUQ FUJ</td>
<td>1</td>
<td>42</td>
<td>43</td>
<td>29</td>
<td>45</td>
<td>37</td>
</tr>
<tr>
<td>BAZ FOH</td>
<td>2</td>
<td>38</td>
<td>43</td>
<td>33</td>
<td>44</td>
<td>37</td>
</tr>
<tr>
<td>NUJ WIY</td>
<td>1</td>
<td>44</td>
<td>42</td>
<td>38</td>
<td>37</td>
<td>38</td>
</tr>
<tr>
<td>RUK DOQ</td>
<td>1</td>
<td>44</td>
<td>44</td>
<td>38</td>
<td>37</td>
<td>38</td>
</tr>
<tr>
<td>CEK WOG</td>
<td>1</td>
<td>40</td>
<td>38</td>
<td>35</td>
<td>40</td>
<td>38</td>
</tr>
<tr>
<td>KAZ GUV</td>
<td>2</td>
<td>39</td>
<td>42</td>
<td>39</td>
<td>36</td>
<td>38</td>
</tr>
<tr>
<td>WAB ZIN</td>
<td>2</td>
<td>39</td>
<td>47</td>
<td>37</td>
<td>38</td>
<td>38</td>
</tr>
<tr>
<td>VOX ZEP</td>
<td>1</td>
<td>46</td>
<td>46</td>
<td>37</td>
<td>38</td>
<td>38</td>
</tr>
<tr>
<td>GEB BEW</td>
<td>3</td>
<td>42</td>
<td>42</td>
<td>35</td>
<td>40</td>
<td>38</td>
</tr>
<tr>
<td>XAM GEB</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>40</td>
<td>36</td>
<td>38</td>
</tr>
<tr>
<td>CEK RAJ</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>33</td>
<td>43</td>
<td>38</td>
</tr>
<tr>
<td>HUK VOT</td>
<td>2</td>
<td>67</td>
<td>72</td>
<td>36</td>
<td>40</td>
<td>38</td>
</tr>
<tr>
<td>XUC XID</td>
<td>3</td>
<td>10</td>
<td>9</td>
<td>40</td>
<td>36</td>
<td>38</td>
</tr>
<tr>
<td>XUS XEK</td>
<td>3</td>
<td>6</td>
<td>8</td>
<td>37</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>BEH PEQ</td>
<td>1</td>
<td>44</td>
<td>44</td>
<td>32</td>
<td>44</td>
<td>38</td>
</tr>
<tr>
<td>TEZ KAG</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>33</td>
<td>43</td>
<td>38</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AS</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>ZON YAN</td>
<td>1</td>
<td>43</td>
<td>43</td>
<td>38</td>
<td>39</td>
<td>38</td>
</tr>
<tr>
<td>BIM FEY</td>
<td>1</td>
<td>68</td>
<td>68</td>
<td>32</td>
<td>45</td>
<td>38</td>
</tr>
<tr>
<td>REZ WIY</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>35</td>
<td>42</td>
<td>38</td>
</tr>
<tr>
<td>ZIH XOG</td>
<td>2</td>
<td>6</td>
<td>9</td>
<td>33</td>
<td>44</td>
<td>38</td>
</tr>
<tr>
<td>XIK XUT</td>
<td>1</td>
<td>6</td>
<td>8</td>
<td>40</td>
<td>38</td>
<td>39</td>
</tr>
<tr>
<td>HIY QEL</td>
<td>1</td>
<td>43</td>
<td>43</td>
<td>36</td>
<td>42</td>
<td>39</td>
</tr>
<tr>
<td>FIP POQ</td>
<td>1</td>
<td>42</td>
<td>41</td>
<td>34</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>RIQ JAT</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>36</td>
<td>42</td>
<td>39</td>
</tr>
<tr>
<td>SEF MOF</td>
<td>3</td>
<td>41</td>
<td>40</td>
<td>39</td>
<td>40</td>
<td>39</td>
</tr>
<tr>
<td>QEL HIY</td>
<td>3</td>
<td>43</td>
<td>43</td>
<td>36</td>
<td>43</td>
<td>39</td>
</tr>
<tr>
<td>RIX VAZ</td>
<td>1</td>
<td>43</td>
<td>42</td>
<td>38</td>
<td>41</td>
<td>39</td>
</tr>
<tr>
<td>HIJ MUJ</td>
<td>1</td>
<td>10</td>
<td>10</td>
<td>33</td>
<td>45</td>
<td>39</td>
</tr>
<tr>
<td>TUP SEF</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>38</td>
<td>41</td>
<td>39</td>
</tr>
<tr>
<td>RUC GUC</td>
<td>1</td>
<td>47</td>
<td>47</td>
<td>36</td>
<td>43</td>
<td>40</td>
</tr>
<tr>
<td>WEC VAZ</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td>32</td>
<td>48</td>
<td>40</td>
</tr>
<tr>
<td>JO W JEK</td>
<td>3</td>
<td>39</td>
<td>39</td>
<td>38</td>
<td>43</td>
<td>40</td>
</tr>
<tr>
<td>VOC ZAP</td>
<td>2</td>
<td>66</td>
<td>70</td>
<td>41</td>
<td>40</td>
<td>40</td>
</tr>
<tr>
<td>DIQ JIR</td>
<td>1</td>
<td>41</td>
<td>41</td>
<td>38</td>
<td>43</td>
<td>40</td>
</tr>
<tr>
<td>WAG PEK</td>
<td>1</td>
<td>41</td>
<td>40</td>
<td>34</td>
<td>47</td>
<td>40</td>
</tr>
<tr>
<td>FUTU DAQ</td>
<td>2</td>
<td>38</td>
<td>38</td>
<td>37</td>
<td>44</td>
<td>40</td>
</tr>
<tr>
<td>SIB MAH</td>
<td>2</td>
<td>74</td>
<td>76</td>
<td>37</td>
<td>44</td>
<td>40</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>S AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>XUD XAW</td>
<td>1</td>
<td>6</td>
<td>8</td>
<td>38</td>
<td>43</td>
<td>41</td>
</tr>
<tr>
<td>MOF SEF</td>
<td>1</td>
<td>40</td>
<td>41</td>
<td>38</td>
<td>44</td>
<td>41</td>
</tr>
<tr>
<td>KEV GOZ</td>
<td>1</td>
<td>46</td>
<td>45</td>
<td>33</td>
<td>49</td>
<td>41</td>
</tr>
<tr>
<td>FIC WEY</td>
<td>2</td>
<td>68</td>
<td>72</td>
<td>36</td>
<td>47</td>
<td>41</td>
</tr>
<tr>
<td>CEV HIY</td>
<td>2</td>
<td>38</td>
<td>43</td>
<td>41</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>VAD JOR</td>
<td>2</td>
<td>39</td>
<td>44</td>
<td>41</td>
<td>43</td>
<td>42</td>
</tr>
<tr>
<td>VUN DIQ</td>
<td>2</td>
<td>40</td>
<td>41</td>
<td>40</td>
<td>43</td>
<td>42</td>
</tr>
<tr>
<td>BIM DOK</td>
<td>2</td>
<td>68</td>
<td>72</td>
<td>38</td>
<td>46</td>
<td>42</td>
</tr>
<tr>
<td>MOG QIC</td>
<td>3</td>
<td>45</td>
<td>45</td>
<td>47</td>
<td>37</td>
<td>42</td>
</tr>
<tr>
<td>LOZ PIV</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td>38</td>
<td>47</td>
<td>42</td>
</tr>
<tr>
<td>REJ HIB</td>
<td>2</td>
<td>39</td>
<td>44</td>
<td>42</td>
<td>43</td>
<td>42</td>
</tr>
<tr>
<td>MIP PIV</td>
<td>1</td>
<td>42</td>
<td>44</td>
<td>44</td>
<td>40</td>
<td>42</td>
</tr>
<tr>
<td>LIG VOX</td>
<td>2</td>
<td>46</td>
<td>46</td>
<td>38</td>
<td>47</td>
<td>43</td>
</tr>
<tr>
<td>TAF NOD</td>
<td>1</td>
<td>71</td>
<td>72</td>
<td>33</td>
<td>52</td>
<td>43</td>
</tr>
<tr>
<td>VOK GOY</td>
<td>3</td>
<td>42</td>
<td>43</td>
<td>44</td>
<td>41</td>
<td>43</td>
</tr>
<tr>
<td>BEQ HUN</td>
<td>1</td>
<td>41</td>
<td>41</td>
<td>36</td>
<td>49</td>
<td>43</td>
</tr>
<tr>
<td>ZEN VAX</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>41</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>NUH PEQ</td>
<td>2</td>
<td>38</td>
<td>44</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>KUB RIL</td>
<td>3</td>
<td>70</td>
<td>69</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>YUK FOS</td>
<td>1</td>
<td>67</td>
<td>68</td>
<td>37</td>
<td>49</td>
<td>43</td>
</tr>
<tr>
<td>QEP XAS</td>
<td>2</td>
<td>13</td>
<td>14</td>
<td>43</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>GUB DOY</td>
<td>1</td>
<td>40</td>
<td>39</td>
<td>38</td>
<td>49</td>
<td>43</td>
</tr>
<tr>
<td>WOZ SIV</td>
<td>2</td>
<td>68</td>
<td>73</td>
<td>39</td>
<td>48</td>
<td>43</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of S</td>
<td>Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>---------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>XOF XAF</td>
<td>1</td>
<td></td>
<td>6</td>
<td>8</td>
<td>38</td>
<td>50</td>
</tr>
<tr>
<td>VAM RUL</td>
<td>2</td>
<td></td>
<td>68</td>
<td>76</td>
<td>43</td>
<td>45</td>
</tr>
<tr>
<td>BIP VON</td>
<td>1</td>
<td></td>
<td>71</td>
<td>70</td>
<td>42</td>
<td>47</td>
</tr>
<tr>
<td>LIY JOX</td>
<td>1</td>
<td></td>
<td>46</td>
<td>45</td>
<td>42</td>
<td>48</td>
</tr>
<tr>
<td>SUT HUC</td>
<td>3</td>
<td></td>
<td>70</td>
<td>69</td>
<td>43</td>
<td>47</td>
</tr>
<tr>
<td>CIY RUH</td>
<td>2</td>
<td></td>
<td>40</td>
<td>44</td>
<td>46</td>
<td>44</td>
</tr>
<tr>
<td>TIY BEZ</td>
<td>2</td>
<td></td>
<td>40</td>
<td>44</td>
<td>39</td>
<td>51</td>
</tr>
<tr>
<td>JUK VAD</td>
<td>3</td>
<td></td>
<td>40</td>
<td>39</td>
<td>42</td>
<td>48</td>
</tr>
<tr>
<td>XEC XUN</td>
<td>1</td>
<td></td>
<td>9</td>
<td>9</td>
<td>44</td>
<td>46</td>
</tr>
<tr>
<td>JAT GOW</td>
<td>1</td>
<td></td>
<td>41</td>
<td>42</td>
<td>40</td>
<td>50</td>
</tr>
<tr>
<td>PAG FEY</td>
<td>2</td>
<td></td>
<td>74</td>
<td>68</td>
<td>40</td>
<td>51</td>
</tr>
<tr>
<td>GUD HIG</td>
<td>1</td>
<td></td>
<td>42</td>
<td>41</td>
<td>41</td>
<td>50</td>
</tr>
<tr>
<td>ZIV TUP</td>
<td>1</td>
<td></td>
<td>39</td>
<td>39</td>
<td>39</td>
<td>52</td>
</tr>
<tr>
<td>VIB ZON</td>
<td>2</td>
<td></td>
<td>40</td>
<td>43</td>
<td>44</td>
<td>47</td>
</tr>
<tr>
<td>LOQ RIX</td>
<td>2</td>
<td></td>
<td>38</td>
<td>43</td>
<td>47</td>
<td>44</td>
</tr>
<tr>
<td>NUG HOF</td>
<td>2</td>
<td></td>
<td>66</td>
<td>74</td>
<td>43</td>
<td>48</td>
</tr>
<tr>
<td>KOR YAW</td>
<td>2</td>
<td></td>
<td>75</td>
<td>76</td>
<td>41</td>
<td>51</td>
</tr>
<tr>
<td>CAY HEK</td>
<td>1</td>
<td></td>
<td>74</td>
<td>74</td>
<td>41</td>
<td>51</td>
</tr>
<tr>
<td>BIP CED</td>
<td>2</td>
<td></td>
<td>71</td>
<td>73</td>
<td>45</td>
<td>47</td>
</tr>
<tr>
<td>BEQ JOX</td>
<td>2</td>
<td></td>
<td>41</td>
<td>45</td>
<td>42</td>
<td>50</td>
</tr>
<tr>
<td>WIY NUJ</td>
<td>3</td>
<td></td>
<td>16</td>
<td>44</td>
<td>43</td>
<td>49</td>
</tr>
<tr>
<td>YOG KAZ</td>
<td>1</td>
<td></td>
<td>38</td>
<td>39</td>
<td>40</td>
<td>53</td>
</tr>
<tr>
<td>XUR XIN</td>
<td>1</td>
<td></td>
<td>9</td>
<td>10</td>
<td>48</td>
<td>45</td>
</tr>
<tr>
<td>GEZ WOB</td>
<td>2</td>
<td></td>
<td>42</td>
<td>45</td>
<td>43</td>
<td>49</td>
</tr>
</tbody>
</table>
Montague

Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AV</th>
</tr>
</thead>
<tbody>
<tr>
<td>LUW HEZ</td>
<td>2</td>
<td>39</td>
<td>41</td>
<td>43</td>
<td>50</td>
<td>47</td>
</tr>
<tr>
<td>JEK FIM</td>
<td>2</td>
<td>39</td>
<td>42</td>
<td>43</td>
<td>50</td>
<td>47</td>
</tr>
<tr>
<td>CIZ GOM</td>
<td>2</td>
<td>39</td>
<td>47</td>
<td>42</td>
<td>52</td>
<td>47</td>
</tr>
<tr>
<td>WIQ ZEN</td>
<td>3</td>
<td>38</td>
<td>38</td>
<td>43</td>
<td>51</td>
<td>47</td>
</tr>
<tr>
<td>LUB FES</td>
<td>1</td>
<td>69</td>
<td>69</td>
<td>46</td>
<td>48</td>
<td>47</td>
</tr>
<tr>
<td>LIX YAT</td>
<td>2</td>
<td>46</td>
<td>46</td>
<td>43</td>
<td>51</td>
<td>47</td>
</tr>
<tr>
<td>TIZ VAG</td>
<td>2</td>
<td>75</td>
<td>75</td>
<td>43</td>
<td>51</td>
<td>47</td>
</tr>
<tr>
<td>NEM FIM</td>
<td>1</td>
<td>41</td>
<td>42</td>
<td>43</td>
<td>52</td>
<td>47</td>
</tr>
<tr>
<td>NAC DAS</td>
<td>1</td>
<td>72</td>
<td>72</td>
<td>39</td>
<td>55</td>
<td>47</td>
</tr>
<tr>
<td>CIZ CAH</td>
<td>3</td>
<td>39</td>
<td>40</td>
<td>48</td>
<td>47</td>
<td>47</td>
</tr>
<tr>
<td>VON RIL</td>
<td>2</td>
<td>70</td>
<td>69</td>
<td>53</td>
<td>43</td>
<td>48</td>
</tr>
<tr>
<td>CIY NEZ</td>
<td>1</td>
<td>40</td>
<td>39</td>
<td>44</td>
<td>51</td>
<td>48</td>
</tr>
<tr>
<td>ZEN WIQ</td>
<td>1</td>
<td>38</td>
<td>38</td>
<td>44</td>
<td>51</td>
<td>48</td>
</tr>
<tr>
<td>HUP VIK</td>
<td>3</td>
<td>75</td>
<td>74</td>
<td>51</td>
<td>44</td>
<td>48</td>
</tr>
<tr>
<td>NOF WIV</td>
<td>2</td>
<td>38</td>
<td>43</td>
<td>43</td>
<td>53</td>
<td>48</td>
</tr>
<tr>
<td>DEG SIQ</td>
<td>1</td>
<td>45</td>
<td>47</td>
<td>46</td>
<td>50</td>
<td>48</td>
</tr>
<tr>
<td>JUP HUW</td>
<td>2</td>
<td>39</td>
<td>41</td>
<td>38</td>
<td>58</td>
<td>48</td>
</tr>
<tr>
<td>GOM POW</td>
<td>1</td>
<td>47</td>
<td>45</td>
<td>48</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>VAX SUY</td>
<td>1</td>
<td>41</td>
<td>41</td>
<td>50</td>
<td>47</td>
<td>48</td>
</tr>
<tr>
<td>JAQ HUK</td>
<td>1</td>
<td>68</td>
<td>67</td>
<td>48</td>
<td>50</td>
<td>49</td>
</tr>
<tr>
<td>GOY VOK</td>
<td>1</td>
<td>43</td>
<td>42</td>
<td>43</td>
<td>54</td>
<td>49</td>
</tr>
<tr>
<td>HOK NUF</td>
<td>2</td>
<td>75</td>
<td>69</td>
<td>43</td>
<td>54</td>
<td>49</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>S</td>
<td>R</td>
<td>AS No. of S</td>
<td>AV</td>
<td>R. AV</td>
<td>MAS</td>
</tr>
<tr>
<td>----------</td>
<td>---</td>
<td>---</td>
<td>-------------</td>
<td>----</td>
<td>-------</td>
<td>-----</td>
</tr>
<tr>
<td>VAD JUK</td>
<td>1</td>
<td></td>
<td></td>
<td>39</td>
<td>40</td>
<td>45</td>
</tr>
<tr>
<td>PUH WEJ</td>
<td>1</td>
<td></td>
<td></td>
<td>42</td>
<td>42</td>
<td>45</td>
</tr>
<tr>
<td>CEN YOW</td>
<td>2</td>
<td></td>
<td></td>
<td>75</td>
<td>73</td>
<td>48</td>
</tr>
<tr>
<td>TUW NEM</td>
<td>2</td>
<td></td>
<td></td>
<td>38</td>
<td>41</td>
<td>44</td>
</tr>
<tr>
<td>HUC SUT</td>
<td>1</td>
<td></td>
<td></td>
<td>69</td>
<td>70</td>
<td>49</td>
</tr>
<tr>
<td>WIK HES</td>
<td>2</td>
<td></td>
<td></td>
<td>67</td>
<td>71</td>
<td>46</td>
</tr>
<tr>
<td>DAP WIK</td>
<td>1</td>
<td></td>
<td></td>
<td>67</td>
<td>67</td>
<td>44</td>
</tr>
<tr>
<td>HOF FOP</td>
<td>3</td>
<td></td>
<td></td>
<td>74</td>
<td>75</td>
<td>53</td>
</tr>
<tr>
<td>TUJ YOJ</td>
<td>1</td>
<td></td>
<td></td>
<td>10</td>
<td>9</td>
<td>48</td>
</tr>
<tr>
<td>VAG DOB</td>
<td>1</td>
<td></td>
<td></td>
<td>75</td>
<td>75</td>
<td>42</td>
</tr>
<tr>
<td>HEZ QAY</td>
<td>1</td>
<td></td>
<td></td>
<td>41</td>
<td>41</td>
<td>49</td>
</tr>
<tr>
<td>HOX TEW</td>
<td>2</td>
<td></td>
<td></td>
<td>74</td>
<td>76</td>
<td>52</td>
</tr>
<tr>
<td>LUQ TIY</td>
<td>3</td>
<td></td>
<td></td>
<td>42</td>
<td>40</td>
<td>47</td>
</tr>
<tr>
<td>HUX CIP</td>
<td>1</td>
<td></td>
<td></td>
<td>75</td>
<td>75</td>
<td>49</td>
</tr>
<tr>
<td>NAK HOX</td>
<td>1</td>
<td></td>
<td></td>
<td>74</td>
<td>74</td>
<td>54</td>
</tr>
<tr>
<td>BIS WUF</td>
<td>2</td>
<td></td>
<td></td>
<td>72</td>
<td>67</td>
<td>48</td>
</tr>
<tr>
<td>TEP WIX</td>
<td>1</td>
<td></td>
<td></td>
<td>45</td>
<td>44</td>
<td>45</td>
</tr>
<tr>
<td>DUT QLD</td>
<td>1</td>
<td></td>
<td></td>
<td>44</td>
<td>42</td>
<td>42</td>
</tr>
<tr>
<td>FOS MEC</td>
<td>2</td>
<td></td>
<td></td>
<td>68</td>
<td>67</td>
<td>47</td>
</tr>
<tr>
<td>VIS KOG</td>
<td>2</td>
<td></td>
<td></td>
<td>75</td>
<td>76</td>
<td>47</td>
</tr>
<tr>
<td>VOY WUT</td>
<td>2</td>
<td></td>
<td></td>
<td>68</td>
<td>69</td>
<td>44</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>-----------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>HIQ</td>
<td>1</td>
<td>47</td>
<td>46</td>
<td>54</td>
<td>49</td>
<td>52</td>
</tr>
<tr>
<td>CIP</td>
<td>2</td>
<td>75</td>
<td>72</td>
<td>48</td>
<td>56</td>
<td>52</td>
</tr>
<tr>
<td>BEK</td>
<td>2</td>
<td>66</td>
<td>69</td>
<td>46</td>
<td>58</td>
<td>52</td>
</tr>
<tr>
<td>RAL</td>
<td>2</td>
<td>67</td>
<td>72</td>
<td>47</td>
<td>58</td>
<td>52</td>
</tr>
<tr>
<td>JOS</td>
<td>1</td>
<td>68</td>
<td>67</td>
<td>45</td>
<td>59</td>
<td>52</td>
</tr>
<tr>
<td>VIJ</td>
<td>1</td>
<td>9</td>
<td>9</td>
<td>48</td>
<td>57</td>
<td>52</td>
</tr>
<tr>
<td>DIR</td>
<td>2</td>
<td>68</td>
<td>72</td>
<td>50</td>
<td>55</td>
<td>53</td>
</tr>
<tr>
<td>LAN</td>
<td>2</td>
<td>75</td>
<td>76</td>
<td>49</td>
<td>56</td>
<td>53</td>
</tr>
<tr>
<td>FOP</td>
<td>1</td>
<td>75</td>
<td>74</td>
<td>45</td>
<td>60</td>
<td>53</td>
</tr>
<tr>
<td>GIS</td>
<td>1</td>
<td>39</td>
<td>39</td>
<td>51</td>
<td>54</td>
<td>53</td>
</tr>
<tr>
<td>JEK</td>
<td>1</td>
<td>39</td>
<td>39</td>
<td>51</td>
<td>55</td>
<td>53</td>
</tr>
<tr>
<td>VUN</td>
<td>3</td>
<td>40</td>
<td>42</td>
<td>53</td>
<td>53</td>
<td>53</td>
</tr>
<tr>
<td>HUY</td>
<td>2</td>
<td>39</td>
<td>42</td>
<td>44</td>
<td>62</td>
<td>53</td>
</tr>
<tr>
<td>WOB</td>
<td>1</td>
<td>45</td>
<td>47</td>
<td>41</td>
<td>66</td>
<td>53</td>
</tr>
<tr>
<td>SUG</td>
<td>3</td>
<td>47</td>
<td>45</td>
<td>54</td>
<td>53</td>
<td>54</td>
</tr>
<tr>
<td>BEY</td>
<td>1</td>
<td>75</td>
<td>74</td>
<td>49</td>
<td>58</td>
<td>54</td>
</tr>
<tr>
<td>DET</td>
<td>2</td>
<td>69</td>
<td>74</td>
<td>50</td>
<td>58</td>
<td>54</td>
</tr>
<tr>
<td>Wey</td>
<td>1</td>
<td>72</td>
<td>73</td>
<td>43</td>
<td>63</td>
<td>54</td>
</tr>
<tr>
<td>YUK</td>
<td>2</td>
<td>66</td>
<td>68</td>
<td>50</td>
<td>58</td>
<td>54</td>
</tr>
<tr>
<td>FUM</td>
<td>2</td>
<td>67</td>
<td>74</td>
<td>47</td>
<td>62</td>
<td>54</td>
</tr>
<tr>
<td>CAH</td>
<td>1</td>
<td>40</td>
<td>39</td>
<td>49</td>
<td>59</td>
<td>54</td>
</tr>
</tbody>
</table>
Montague

Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AV</th>
</tr>
</thead>
<tbody>
<tr>
<td>VAY QIS</td>
<td>1</td>
<td>43</td>
<td>44</td>
<td>48</td>
<td>61</td>
<td>55</td>
</tr>
<tr>
<td>JUP WEZ</td>
<td>1</td>
<td>39</td>
<td>39</td>
<td>51</td>
<td>58</td>
<td>55</td>
</tr>
<tr>
<td>NEG DUP</td>
<td>2</td>
<td>69</td>
<td>74</td>
<td>55</td>
<td>54</td>
<td>55</td>
</tr>
<tr>
<td>MAQ JIR</td>
<td>2</td>
<td>38</td>
<td>41</td>
<td>53</td>
<td>58</td>
<td>55</td>
</tr>
<tr>
<td>DAS NAC</td>
<td>3</td>
<td>72</td>
<td>72</td>
<td>59</td>
<td>51</td>
<td>55</td>
</tr>
<tr>
<td>BIS LAV</td>
<td>3</td>
<td>72</td>
<td>72</td>
<td>58</td>
<td>53</td>
<td>55</td>
</tr>
<tr>
<td>RIZ WOD</td>
<td>2</td>
<td>66</td>
<td>70</td>
<td>54</td>
<td>57</td>
<td>55</td>
</tr>
<tr>
<td>CAK NEB</td>
<td>2</td>
<td>67</td>
<td>71</td>
<td>54</td>
<td>57</td>
<td>55</td>
</tr>
<tr>
<td>RAJ WIV</td>
<td>1</td>
<td>44</td>
<td>43</td>
<td>49</td>
<td>62</td>
<td>55</td>
</tr>
<tr>
<td>KOF TID</td>
<td>1</td>
<td>71</td>
<td>72</td>
<td>53</td>
<td>59</td>
<td>56</td>
</tr>
<tr>
<td>TOB HIZ</td>
<td>2</td>
<td>66</td>
<td>75</td>
<td>50</td>
<td>63</td>
<td>56</td>
</tr>
<tr>
<td>MUY LIX</td>
<td>1</td>
<td>45</td>
<td>46</td>
<td>53</td>
<td>60</td>
<td>57</td>
</tr>
<tr>
<td>SAR HEV</td>
<td>2</td>
<td>68</td>
<td>70</td>
<td>61</td>
<td>53</td>
<td>57</td>
</tr>
<tr>
<td>TIY LUQ</td>
<td>1</td>
<td>40</td>
<td>42</td>
<td>53</td>
<td>61</td>
<td>57</td>
</tr>
<tr>
<td>WEH GEZ</td>
<td>1</td>
<td>41</td>
<td>42</td>
<td>51</td>
<td>63</td>
<td>57</td>
</tr>
<tr>
<td>KOM NEG</td>
<td>1</td>
<td>69</td>
<td>69</td>
<td>50</td>
<td>63</td>
<td>57</td>
</tr>
<tr>
<td>RAL VOC</td>
<td>1</td>
<td>67</td>
<td>66</td>
<td>50</td>
<td>63</td>
<td>57</td>
</tr>
<tr>
<td>DAP LOP'</td>
<td>2</td>
<td>67</td>
<td>70</td>
<td>52</td>
<td>62</td>
<td>57</td>
</tr>
<tr>
<td>FOZ FEX</td>
<td>1</td>
<td>41</td>
<td>42</td>
<td>52</td>
<td>62</td>
<td>57</td>
</tr>
<tr>
<td>LIX DAF</td>
<td>1</td>
<td>71</td>
<td>74</td>
<td>49</td>
<td>64</td>
<td>57</td>
</tr>
<tr>
<td>WAP PAG</td>
<td>1</td>
<td>74</td>
<td>74</td>
<td>57</td>
<td>58</td>
<td>57</td>
</tr>
<tr>
<td>WEX WUM</td>
<td>1</td>
<td>38</td>
<td>38</td>
<td>49</td>
<td>65</td>
<td>57</td>
</tr>
<tr>
<td>CVC Pair S</td>
<td>R</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
</tr>
<tr>
<td>-----------</td>
<td>---</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>SEG RUD</td>
<td>2</td>
<td>68</td>
<td>73</td>
<td></td>
<td>53</td>
<td>62</td>
</tr>
<tr>
<td>JOH PEM</td>
<td>1</td>
<td>45</td>
<td>45</td>
<td></td>
<td>63</td>
<td>52</td>
</tr>
<tr>
<td>SEQ DEH</td>
<td>1</td>
<td>44</td>
<td>44</td>
<td></td>
<td>57</td>
<td>58</td>
</tr>
<tr>
<td>CAH QIS</td>
<td>2</td>
<td>40</td>
<td>44</td>
<td></td>
<td>55</td>
<td>61</td>
</tr>
<tr>
<td>VER LUM</td>
<td>2</td>
<td>67</td>
<td>73</td>
<td></td>
<td>53</td>
<td>63</td>
</tr>
<tr>
<td>FIC FUM</td>
<td>3</td>
<td>68</td>
<td>67</td>
<td></td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>PIR HOK</td>
<td>1</td>
<td>74</td>
<td>75</td>
<td></td>
<td>51</td>
<td>65</td>
</tr>
<tr>
<td>SIY GOW</td>
<td>2</td>
<td>38</td>
<td>42</td>
<td></td>
<td>57</td>
<td>59</td>
</tr>
<tr>
<td>SIB KOR</td>
<td>1</td>
<td>74</td>
<td>75</td>
<td></td>
<td>52</td>
<td>65</td>
</tr>
<tr>
<td>WIR ZAP</td>
<td>1</td>
<td>69</td>
<td>70</td>
<td></td>
<td>55</td>
<td>62</td>
</tr>
<tr>
<td>NEB NAV</td>
<td>1</td>
<td>71</td>
<td>72</td>
<td></td>
<td>53</td>
<td>64</td>
</tr>
<tr>
<td>YUH HUZ</td>
<td>1</td>
<td>45</td>
<td>46</td>
<td></td>
<td>57</td>
<td>61</td>
</tr>
<tr>
<td>TAV HOD</td>
<td>1</td>
<td>70</td>
<td>69</td>
<td></td>
<td>53</td>
<td>64</td>
</tr>
<tr>
<td>HUS PEY</td>
<td>2</td>
<td>70</td>
<td>67</td>
<td></td>
<td>53</td>
<td>65</td>
</tr>
<tr>
<td>YAT QIZ</td>
<td>1</td>
<td>46</td>
<td>47</td>
<td></td>
<td>52</td>
<td>67</td>
</tr>
<tr>
<td>TIZ DES</td>
<td>1</td>
<td>75</td>
<td>75</td>
<td></td>
<td>53</td>
<td>66</td>
</tr>
<tr>
<td>FEZ CIL</td>
<td>2</td>
<td>71</td>
<td>72</td>
<td></td>
<td>58</td>
<td>62</td>
</tr>
<tr>
<td>LIB VAS</td>
<td>2</td>
<td>75</td>
<td>76</td>
<td></td>
<td>57</td>
<td>63</td>
</tr>
<tr>
<td>CEN BIF</td>
<td>1</td>
<td>75</td>
<td>76</td>
<td></td>
<td>54</td>
<td>65</td>
</tr>
<tr>
<td>QUT YOT</td>
<td>1</td>
<td>39</td>
<td>38</td>
<td></td>
<td>53</td>
<td>67</td>
</tr>
<tr>
<td>VOY HEV</td>
<td>1</td>
<td>68</td>
<td>70</td>
<td></td>
<td>53</td>
<td>67</td>
</tr>
<tr>
<td>GOH QAN</td>
<td>3</td>
<td>41</td>
<td>40</td>
<td></td>
<td>51</td>
<td>70</td>
</tr>
<tr>
<td>VAM KEP</td>
<td>1</td>
<td>68</td>
<td>70</td>
<td></td>
<td>57</td>
<td>64</td>
</tr>
<tr>
<td>JOH TUL</td>
<td>2</td>
<td>45</td>
<td>47</td>
<td></td>
<td>58</td>
<td>65</td>
</tr>
</tbody>
</table>
### Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair S R</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AV</th>
</tr>
</thead>
<tbody>
<tr>
<td>COS CED</td>
<td>1</td>
<td>74</td>
<td>73</td>
<td>56</td>
<td>67</td>
<td>61</td>
</tr>
<tr>
<td>CIK MEC</td>
<td>1</td>
<td>67</td>
<td>67</td>
<td>58</td>
<td>66</td>
<td>61</td>
</tr>
<tr>
<td>YIR NEP</td>
<td>1</td>
<td>44</td>
<td>46</td>
<td>58</td>
<td>66</td>
<td>62</td>
</tr>
<tr>
<td>FOH BEZ</td>
<td>1</td>
<td>43</td>
<td>44</td>
<td>48</td>
<td>76</td>
<td>62</td>
</tr>
<tr>
<td>WOM TIR</td>
<td>2</td>
<td>67</td>
<td>67</td>
<td>53</td>
<td>72</td>
<td>62</td>
</tr>
<tr>
<td>QIC MOG</td>
<td>1</td>
<td>45</td>
<td>45</td>
<td>65</td>
<td>57</td>
<td>62</td>
</tr>
<tr>
<td>JOR NID</td>
<td>1</td>
<td>44</td>
<td>44</td>
<td>55</td>
<td>69</td>
<td>62</td>
</tr>
<tr>
<td>CUN DOK</td>
<td>1</td>
<td>73</td>
<td>72</td>
<td>57</td>
<td>68</td>
<td>63</td>
</tr>
<tr>
<td>KOR SIB</td>
<td>3</td>
<td>75</td>
<td>74</td>
<td>63</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>GOV JAT</td>
<td>3</td>
<td>42</td>
<td>41</td>
<td>63</td>
<td>62</td>
<td>63</td>
</tr>
<tr>
<td>KOG JUS</td>
<td>1</td>
<td>76</td>
<td>76</td>
<td>62</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>WEP YIR</td>
<td>3</td>
<td>60</td>
<td>44</td>
<td>63</td>
<td>63</td>
<td>63</td>
</tr>
<tr>
<td>DUR GUR</td>
<td>1</td>
<td>67</td>
<td>68</td>
<td>58</td>
<td>68</td>
<td>63</td>
</tr>
<tr>
<td>FAS WOZ</td>
<td>1</td>
<td>71</td>
<td>68</td>
<td>51</td>
<td>75</td>
<td>63</td>
</tr>
<tr>
<td>TAV NUR</td>
<td>2</td>
<td>70</td>
<td>67</td>
<td>62</td>
<td>64</td>
<td>63</td>
</tr>
<tr>
<td>KAS HEK</td>
<td>2</td>
<td>67</td>
<td>74</td>
<td>59</td>
<td>67</td>
<td>63</td>
</tr>
<tr>
<td>REK SUZ</td>
<td>2</td>
<td>73</td>
<td>68</td>
<td>58</td>
<td>69</td>
<td>63</td>
</tr>
<tr>
<td>DAL YOW</td>
<td>1</td>
<td>74</td>
<td>73</td>
<td>62</td>
<td>65</td>
<td>63</td>
</tr>
<tr>
<td>SAR CUL</td>
<td>1</td>
<td>68</td>
<td>68</td>
<td>59</td>
<td>68</td>
<td>63</td>
</tr>
<tr>
<td>TOB MEX</td>
<td>1</td>
<td>66</td>
<td>67</td>
<td>63</td>
<td>65</td>
<td>64</td>
</tr>
<tr>
<td>PAG WAP</td>
<td>3</td>
<td>74</td>
<td>74</td>
<td>63</td>
<td>66</td>
<td>64</td>
</tr>
<tr>
<td>RIV COS</td>
<td>2</td>
<td>69</td>
<td>74</td>
<td>58</td>
<td>70</td>
<td>64</td>
</tr>
<tr>
<td>CUL MAZ</td>
<td>2</td>
<td>68</td>
<td>72</td>
<td>66</td>
<td>63</td>
<td>65</td>
</tr>
<tr>
<td>YUH NIS</td>
<td>2</td>
<td>45</td>
<td>41</td>
<td>58</td>
<td>71</td>
<td>65</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>PEL FAK</td>
<td>2</td>
<td>75</td>
<td>76</td>
<td>59</td>
<td>70</td>
<td>65</td>
</tr>
<tr>
<td>BEY MOS</td>
<td>2</td>
<td>75</td>
<td>75</td>
<td>59</td>
<td>70</td>
<td>65</td>
</tr>
<tr>
<td>DES TOK</td>
<td>2</td>
<td>75</td>
<td>69</td>
<td>65</td>
<td>64</td>
<td>65</td>
</tr>
<tr>
<td>LAV BIS</td>
<td>1</td>
<td>72</td>
<td>72</td>
<td>64</td>
<td>65</td>
<td>65</td>
</tr>
<tr>
<td>XAM LOZ</td>
<td>1</td>
<td>38</td>
<td>40</td>
<td>60</td>
<td>70</td>
<td>65</td>
</tr>
<tr>
<td>FUM FIC</td>
<td>1</td>
<td>67</td>
<td>68</td>
<td>68</td>
<td>62</td>
<td>65</td>
</tr>
<tr>
<td>RIL KUB</td>
<td>1</td>
<td>69</td>
<td>70</td>
<td>61</td>
<td>69</td>
<td>65</td>
</tr>
<tr>
<td>VIK HUP</td>
<td>1</td>
<td>74</td>
<td>75</td>
<td>63</td>
<td>68</td>
<td>65</td>
</tr>
<tr>
<td>CER CIV</td>
<td>1</td>
<td>71</td>
<td>71</td>
<td>61</td>
<td>71</td>
<td>66</td>
</tr>
<tr>
<td>NES REK</td>
<td>1</td>
<td>72</td>
<td>73</td>
<td>64</td>
<td>68</td>
<td>66</td>
</tr>
<tr>
<td>TOG BUN</td>
<td>3</td>
<td>97</td>
<td>100</td>
<td>72</td>
<td>61</td>
<td>66</td>
</tr>
<tr>
<td>COZ REL</td>
<td>1</td>
<td>74</td>
<td>72</td>
<td>62</td>
<td>72</td>
<td>67</td>
</tr>
<tr>
<td>FEN COV</td>
<td>1</td>
<td>74</td>
<td>73</td>
<td>64</td>
<td>70</td>
<td>67</td>
</tr>
<tr>
<td>NAM DUP</td>
<td>1</td>
<td>73</td>
<td>74</td>
<td>63</td>
<td>73</td>
<td>68</td>
</tr>
<tr>
<td>PAZ QEL</td>
<td>2</td>
<td>38</td>
<td>43</td>
<td>67</td>
<td>68</td>
<td>68</td>
</tr>
<tr>
<td>PES MUL</td>
<td>2</td>
<td>68</td>
<td>44</td>
<td>62</td>
<td>73</td>
<td>68</td>
</tr>
<tr>
<td>WUR CET</td>
<td>2</td>
<td>69</td>
<td>69</td>
<td>68</td>
<td>68</td>
<td>68</td>
</tr>
<tr>
<td>MUY SIQ</td>
<td>2</td>
<td>45</td>
<td>47</td>
<td>70</td>
<td>66</td>
<td>68</td>
</tr>
<tr>
<td>YUS NIS</td>
<td>1</td>
<td>40</td>
<td>41</td>
<td>61</td>
<td>75</td>
<td>68</td>
</tr>
<tr>
<td>CET VEW</td>
<td>1</td>
<td>69</td>
<td>68</td>
<td>56</td>
<td>80</td>
<td>68</td>
</tr>
<tr>
<td>MUY LUW</td>
<td>1</td>
<td>39</td>
<td>39</td>
<td>64</td>
<td>72</td>
<td>68</td>
</tr>
<tr>
<td>YAK TUM</td>
<td>3</td>
<td>97</td>
<td>98</td>
<td>69</td>
<td>67</td>
<td>68</td>
</tr>
<tr>
<td>DUG ZIP</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>62</td>
<td>74</td>
<td>68</td>
</tr>
<tr>
<td>PES DAW</td>
<td>1</td>
<td>68</td>
<td>67</td>
<td>66</td>
<td>71</td>
<td>68</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>-----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>PAR</td>
<td>DAB</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td></td>
<td>64 73</td>
</tr>
<tr>
<td>LIB</td>
<td>MOS</td>
<td>1</td>
<td>75</td>
<td>75</td>
<td></td>
<td>59 78</td>
</tr>
<tr>
<td>JOS</td>
<td>BIF</td>
<td>2</td>
<td>68</td>
<td>76</td>
<td></td>
<td>64 73</td>
</tr>
<tr>
<td>FOD</td>
<td>FEZ</td>
<td>1</td>
<td>69</td>
<td>71</td>
<td></td>
<td>61 78</td>
</tr>
<tr>
<td>KOL</td>
<td>RAB</td>
<td>2</td>
<td>74</td>
<td>76</td>
<td></td>
<td>68 71</td>
</tr>
<tr>
<td>JAD</td>
<td>BOK</td>
<td>2</td>
<td>66</td>
<td>69</td>
<td></td>
<td>60 78</td>
</tr>
<tr>
<td>KER</td>
<td>NOK</td>
<td>1</td>
<td>76</td>
<td>75</td>
<td></td>
<td>68 70</td>
</tr>
<tr>
<td>QAN</td>
<td>GOH</td>
<td>1</td>
<td>40</td>
<td>41</td>
<td></td>
<td>61 78</td>
</tr>
<tr>
<td>YUM</td>
<td>PAD</td>
<td>3</td>
<td>90</td>
<td>100</td>
<td></td>
<td>69 69</td>
</tr>
<tr>
<td>NUR</td>
<td>JOS</td>
<td>3</td>
<td>67</td>
<td>68</td>
<td></td>
<td>68 72</td>
</tr>
<tr>
<td>HES</td>
<td>KOD</td>
<td>1</td>
<td>71</td>
<td>73</td>
<td></td>
<td>63 77</td>
</tr>
<tr>
<td>VOT</td>
<td>DUX</td>
<td>1</td>
<td>72</td>
<td>74</td>
<td></td>
<td>62 78</td>
</tr>
<tr>
<td>DUP</td>
<td>NAM</td>
<td>3</td>
<td>74</td>
<td>73</td>
<td></td>
<td>68 73</td>
</tr>
<tr>
<td>SOT</td>
<td>WUT</td>
<td>1</td>
<td>70</td>
<td>69</td>
<td></td>
<td>68 72</td>
</tr>
<tr>
<td>WOM</td>
<td>VER</td>
<td>1</td>
<td>67</td>
<td>67</td>
<td></td>
<td>63 77</td>
</tr>
<tr>
<td>MUL</td>
<td>VIS</td>
<td>1</td>
<td>74</td>
<td>75</td>
<td></td>
<td>64 76</td>
</tr>
<tr>
<td>FAK</td>
<td>HIZ</td>
<td>1</td>
<td>76</td>
<td>75</td>
<td></td>
<td>58 83</td>
</tr>
<tr>
<td>VEW</td>
<td>LAV</td>
<td>2</td>
<td>68</td>
<td>72</td>
<td></td>
<td>64 78</td>
</tr>
<tr>
<td>CIL</td>
<td>SIV</td>
<td>1</td>
<td>72</td>
<td>73</td>
<td></td>
<td>68 75</td>
</tr>
<tr>
<td>LEF</td>
<td>ROF</td>
<td>3</td>
<td>67</td>
<td>67</td>
<td></td>
<td>68 74</td>
</tr>
<tr>
<td>BUT</td>
<td>VAN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td></td>
<td>67 76</td>
</tr>
<tr>
<td>ROF</td>
<td>Lef</td>
<td>1</td>
<td>67</td>
<td>67</td>
<td></td>
<td>68 74</td>
</tr>
<tr>
<td>LAN</td>
<td>KOL</td>
<td>1</td>
<td>75</td>
<td>74</td>
<td></td>
<td>66 78</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>---------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>NOY GUD</td>
<td>2</td>
<td>45</td>
<td>42</td>
<td>71</td>
<td>74</td>
<td>73</td>
</tr>
<tr>
<td>CAS ROP</td>
<td>2</td>
<td>75</td>
<td>76</td>
<td>73</td>
<td>73</td>
<td>73</td>
</tr>
<tr>
<td>DAW LIQ</td>
<td>2</td>
<td>67</td>
<td>71</td>
<td>66</td>
<td>80</td>
<td>73</td>
</tr>
<tr>
<td>HIC POW</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>74</td>
<td>72</td>
<td>73</td>
</tr>
<tr>
<td>FIV KEP</td>
<td>2</td>
<td>66</td>
<td>70</td>
<td>72</td>
<td>74</td>
<td>73</td>
</tr>
<tr>
<td>RET SEG</td>
<td>1</td>
<td>68</td>
<td>68</td>
<td>72</td>
<td>74</td>
<td>73</td>
</tr>
<tr>
<td>RUD JUN</td>
<td>1</td>
<td>73</td>
<td>73</td>
<td>69</td>
<td>77</td>
<td>73</td>
</tr>
<tr>
<td>TAM SLID</td>
<td>3</td>
<td>98</td>
<td>98</td>
<td>69</td>
<td>78</td>
<td>73</td>
</tr>
<tr>
<td>COT FAY</td>
<td>3</td>
<td>98</td>
<td>98</td>
<td>68</td>
<td>79</td>
<td>73</td>
</tr>
<tr>
<td>TEK MAH</td>
<td>1</td>
<td>75</td>
<td>74</td>
<td>70</td>
<td>77</td>
<td>73</td>
</tr>
<tr>
<td>KOM VIK</td>
<td>2</td>
<td>69</td>
<td>74</td>
<td>73</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>FES JUN</td>
<td>2</td>
<td>69</td>
<td>73</td>
<td>66</td>
<td>82</td>
<td>74</td>
</tr>
<tr>
<td>VAN PIN</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>68</td>
<td>80</td>
<td>74</td>
</tr>
<tr>
<td>DUZ LOG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>76</td>
<td>73</td>
<td>74</td>
</tr>
<tr>
<td>MUN CER</td>
<td>2</td>
<td>67</td>
<td>71</td>
<td>68</td>
<td>80</td>
<td>74</td>
</tr>
<tr>
<td>MIX LAG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>74</td>
<td>74</td>
<td>74</td>
</tr>
<tr>
<td>TUG BIN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>74</td>
<td>76</td>
<td>76</td>
</tr>
<tr>
<td>MEX PIR</td>
<td>2</td>
<td>67</td>
<td>74</td>
<td>70</td>
<td>80</td>
<td>75</td>
</tr>
<tr>
<td>SUZ PEY</td>
<td>1</td>
<td>68</td>
<td>67</td>
<td>73</td>
<td>78</td>
<td>75</td>
</tr>
<tr>
<td>WIR DUS</td>
<td>2</td>
<td>69</td>
<td>73</td>
<td>71</td>
<td>79</td>
<td>75</td>
</tr>
<tr>
<td>LAR DAZ</td>
<td>1</td>
<td>76</td>
<td>76</td>
<td>73</td>
<td>78</td>
<td>75</td>
</tr>
<tr>
<td>MUN TIR</td>
<td>1</td>
<td>67</td>
<td>67</td>
<td>68</td>
<td>84</td>
<td>76</td>
</tr>
<tr>
<td>DUS MAZ</td>
<td>1</td>
<td>73</td>
<td>72</td>
<td>75</td>
<td>78</td>
<td>76</td>
</tr>
<tr>
<td>COD HIC</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>73</td>
<td>80</td>
<td>76</td>
</tr>
<tr>
<td>TOK HUS</td>
<td>1</td>
<td>69</td>
<td>70</td>
<td>73</td>
<td>80</td>
<td>76</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td><strong>TIL</strong></td>
<td><strong>BOW</strong> 3</td>
<td>97</td>
<td>99</td>
<td>77</td>
<td>76</td>
<td>76</td>
</tr>
<tr>
<td><strong>KIM</strong></td>
<td><strong>YET</strong> 3</td>
<td>98</td>
<td>97</td>
<td>78</td>
<td>76</td>
<td>77</td>
</tr>
<tr>
<td><strong>RIM</strong></td>
<td><strong>BUN</strong> 2</td>
<td>99</td>
<td>100</td>
<td>73</td>
<td>80</td>
<td>77</td>
</tr>
<tr>
<td><strong>JAQ</strong></td>
<td><strong>CUN</strong> 2</td>
<td>68</td>
<td>73</td>
<td>73</td>
<td>81</td>
<td>77</td>
</tr>
<tr>
<td><strong>DIR</strong></td>
<td><strong>WUF</strong> 1</td>
<td>68</td>
<td>67</td>
<td>74</td>
<td>80</td>
<td>77</td>
</tr>
<tr>
<td><strong>YER</strong></td>
<td><strong>WUR</strong> 1</td>
<td>70</td>
<td>69</td>
<td>71</td>
<td>86</td>
<td>78</td>
</tr>
<tr>
<td><strong>CIK</strong></td>
<td><strong>FAS</strong> 2</td>
<td>67</td>
<td>71</td>
<td>79</td>
<td>78</td>
<td>78</td>
</tr>
<tr>
<td><strong>KAS</strong></td>
<td><strong>CAK</strong> 1</td>
<td>67</td>
<td>67</td>
<td>77</td>
<td>81</td>
<td>79</td>
</tr>
<tr>
<td><strong>BEL</strong></td>
<td><strong>MAC</strong> 1</td>
<td>99</td>
<td>99</td>
<td>76</td>
<td>82</td>
<td>79</td>
</tr>
<tr>
<td><strong>NUF</strong></td>
<td><strong>LOF</strong> 1</td>
<td>69</td>
<td>70</td>
<td>75</td>
<td>83</td>
<td>79</td>
</tr>
<tr>
<td><strong>MAZ</strong></td>
<td><strong>DUS</strong> 3</td>
<td>72</td>
<td>73</td>
<td>73</td>
<td>85</td>
<td>79</td>
</tr>
<tr>
<td><strong>SOF</strong></td>
<td><strong>TEK</strong> 2</td>
<td>69</td>
<td>74</td>
<td>73</td>
<td>85</td>
<td>79</td>
</tr>
<tr>
<td><strong>WAC</strong></td>
<td><strong>BEN</strong> 1</td>
<td>99</td>
<td>99</td>
<td>74</td>
<td>84</td>
<td>79</td>
</tr>
<tr>
<td><strong>TAG</strong></td>
<td><strong>DIP</strong> 1</td>
<td>100</td>
<td>100</td>
<td>73</td>
<td>86</td>
<td>80</td>
</tr>
<tr>
<td><strong>QIT</strong></td>
<td><strong>YER</strong> 2</td>
<td>66</td>
<td>70</td>
<td>81</td>
<td>78</td>
<td>80</td>
</tr>
<tr>
<td><strong>TAP</strong></td>
<td><strong>WIG</strong> 1</td>
<td>100</td>
<td>100</td>
<td>75</td>
<td>84</td>
<td>80</td>
</tr>
<tr>
<td><strong>BOK</strong></td>
<td><strong>DET</strong> 1</td>
<td>69</td>
<td>69</td>
<td>74</td>
<td>85</td>
<td>80</td>
</tr>
<tr>
<td><strong>CAB</strong></td>
<td><strong>DIP</strong> 2</td>
<td>100</td>
<td>100</td>
<td>77</td>
<td>83</td>
<td>80</td>
</tr>
<tr>
<td><strong>LEG</strong></td>
<td><strong>RIM</strong> 1</td>
<td>99</td>
<td>99</td>
<td>78</td>
<td>83</td>
<td>80</td>
</tr>
<tr>
<td><strong>GUV</strong></td>
<td><strong>VUN</strong> 1</td>
<td>42</td>
<td>40</td>
<td>75</td>
<td>86</td>
<td>80</td>
</tr>
<tr>
<td><strong>SAF</strong></td>
<td><strong>DUX</strong> 2</td>
<td>69</td>
<td>74</td>
<td>82</td>
<td>79</td>
<td>80</td>
</tr>
<tr>
<td><strong>POT</strong></td>
<td><strong>DUZ</strong> 3</td>
<td>99</td>
<td>99</td>
<td>78</td>
<td>84</td>
<td>81</td>
</tr>
<tr>
<td><strong>RIV</strong></td>
<td><strong>SAF</strong> 1</td>
<td>69</td>
<td>69</td>
<td>78</td>
<td>84</td>
<td>81</td>
</tr>
<tr>
<td><strong>BOX</strong></td>
<td><strong>WEB</strong> 2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>78</td>
<td>81</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No.</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>-------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>----------</td>
</tr>
<tr>
<td>WAG LAY</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>80</td>
<td>83</td>
<td>82</td>
</tr>
<tr>
<td>KIN MAT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>79</td>
<td>84</td>
<td>82</td>
</tr>
<tr>
<td>RAW HIT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>81</td>
<td>83</td>
<td>82</td>
</tr>
<tr>
<td>BOW VET</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>77</td>
<td>88</td>
<td>82</td>
</tr>
<tr>
<td>BEG FAD</td>
<td>2</td>
<td>100</td>
<td>100</td>
<td>80</td>
<td>84</td>
<td>82</td>
</tr>
<tr>
<td>DEY LAZ</td>
<td>1</td>
<td>68</td>
<td>68</td>
<td>81</td>
<td>85</td>
<td>83</td>
</tr>
<tr>
<td>SIP FAN</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>80</td>
<td>86</td>
<td>83</td>
</tr>
<tr>
<td>POW NOD</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>79</td>
<td>87</td>
<td>83</td>
</tr>
<tr>
<td>BUZ TIP</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>82</td>
<td>83</td>
</tr>
<tr>
<td>GAL MID</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>81</td>
<td>86</td>
<td>83</td>
</tr>
<tr>
<td>MIX GOT</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>81</td>
<td>86</td>
<td>83</td>
</tr>
<tr>
<td>VIS MUL</td>
<td>3</td>
<td>75</td>
<td>74</td>
<td>82</td>
<td>85</td>
<td>83</td>
</tr>
<tr>
<td>KEG PAD</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>83</td>
<td>83</td>
</tr>
<tr>
<td>RUT HIM</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>83</td>
<td>83</td>
</tr>
<tr>
<td>KIN LUG</td>
<td>3</td>
<td>99</td>
<td>98</td>
<td>85</td>
<td>83</td>
<td>84</td>
</tr>
<tr>
<td>PIT LAB</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>82</td>
<td>86</td>
<td>84</td>
</tr>
<tr>
<td>CUB TEX</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>82</td>
<td>86</td>
<td>84</td>
</tr>
<tr>
<td>CUB JAN</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>78</td>
<td>90</td>
<td>84</td>
</tr>
<tr>
<td>BEL JUG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>84</td>
<td>84</td>
</tr>
<tr>
<td>MUG LET</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>83</td>
<td>87</td>
<td>85</td>
</tr>
<tr>
<td>RAH FEW</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>82</td>
<td>88</td>
<td>85</td>
</tr>
<tr>
<td>MAC HER</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>84</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>PEN RIG</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>84</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>SOW JET</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>85</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>TIC FUN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>79</td>
<td>91</td>
<td>85</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>--------</td>
</tr>
<tr>
<td>CON RIB</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>86</td>
<td>84</td>
<td>85</td>
</tr>
<tr>
<td>SIN DOG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>86</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>JUG MAY</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>86</td>
<td>85</td>
<td>85</td>
</tr>
<tr>
<td>RAP COW</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>87</td>
<td>84</td>
<td>85</td>
</tr>
<tr>
<td>CAS PEL</td>
<td>1</td>
<td>75</td>
<td>75</td>
<td>82</td>
<td>90</td>
<td>86</td>
</tr>
<tr>
<td>JAP NOT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>83</td>
<td>89</td>
<td>86</td>
</tr>
<tr>
<td>ROY FOR</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>85</td>
<td>88</td>
<td>86</td>
</tr>
<tr>
<td>KEC BUS</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>93</td>
<td>80</td>
<td>87</td>
</tr>
<tr>
<td>RAW PUT</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>91</td>
<td>82</td>
<td>86</td>
</tr>
<tr>
<td>RAN NAG</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>88</td>
<td>86</td>
<td>87</td>
</tr>
<tr>
<td>SEG RET</td>
<td>3</td>
<td>68</td>
<td>68</td>
<td>90</td>
<td>83</td>
<td>87</td>
</tr>
<tr>
<td>LOW JAM</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>86</td>
<td>87</td>
</tr>
<tr>
<td>CIV JUS</td>
<td>2</td>
<td>71</td>
<td>76</td>
<td>86</td>
<td>88</td>
<td>87</td>
</tr>
<tr>
<td>BAG WIT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>86</td>
<td>88</td>
<td>87</td>
</tr>
<tr>
<td>FUR SAG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>87</td>
<td>87</td>
<td>87</td>
</tr>
<tr>
<td>SUN TUG</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>84</td>
<td>87</td>
</tr>
<tr>
<td>SEW CAN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>86</td>
<td>88</td>
<td>87</td>
</tr>
<tr>
<td>KEN RUB</td>
<td>3</td>
<td>100</td>
<td>99</td>
<td>84</td>
<td>90</td>
<td>87</td>
</tr>
<tr>
<td>PAY BUT</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>88</td>
<td>87</td>
<td>88</td>
</tr>
<tr>
<td>BUS KEG</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>87</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>LEG MAP</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>BED CUT</td>
<td>2</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>LOT RIP</td>
<td>2</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>FAN SIP</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>86</td>
<td>90</td>
<td>88</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S</td>
<td>R</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>---</td>
<td>---</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>PUT</td>
<td>RAW</td>
<td>99</td>
<td>99</td>
<td>86</td>
<td>90</td>
<td>88</td>
</tr>
<tr>
<td>MAC</td>
<td>BEL</td>
<td>99</td>
<td>99</td>
<td>88</td>
<td>88</td>
<td>88</td>
</tr>
<tr>
<td>BAN</td>
<td>DOT</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>89</td>
<td>88</td>
</tr>
<tr>
<td>LOT</td>
<td>SAG</td>
<td>100</td>
<td>100</td>
<td>89</td>
<td>88</td>
<td>89</td>
</tr>
<tr>
<td>GUM</td>
<td>PIG</td>
<td>99</td>
<td>99</td>
<td>83</td>
<td>95</td>
<td>89</td>
</tr>
<tr>
<td>CIV</td>
<td>CER</td>
<td>71</td>
<td>71</td>
<td>89</td>
<td>88</td>
<td>89</td>
</tr>
<tr>
<td>TUG</td>
<td>SUN</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>88</td>
<td>89</td>
</tr>
<tr>
<td>PAT</td>
<td>RIB</td>
<td>99</td>
<td>100</td>
<td>90</td>
<td>88</td>
<td>89</td>
</tr>
<tr>
<td>HAG</td>
<td>PUB</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>89</td>
<td>89</td>
</tr>
<tr>
<td>HEP</td>
<td>RAY</td>
<td>99</td>
<td>100</td>
<td>87</td>
<td>91</td>
<td>89</td>
</tr>
<tr>
<td>DUZ</td>
<td>POT</td>
<td>99</td>
<td>99</td>
<td>90</td>
<td>88</td>
<td>89</td>
</tr>
<tr>
<td>GAY</td>
<td>LID</td>
<td>99</td>
<td>99</td>
<td>88</td>
<td>91</td>
<td>89</td>
</tr>
<tr>
<td>POT</td>
<td>MAD</td>
<td>99</td>
<td>100</td>
<td>85</td>
<td>93</td>
<td>89</td>
</tr>
<tr>
<td>KEY</td>
<td>GAP</td>
<td>99</td>
<td>99</td>
<td>87</td>
<td>92</td>
<td>89</td>
</tr>
<tr>
<td>WAD</td>
<td>SOD</td>
<td>99</td>
<td>99</td>
<td>84</td>
<td>94</td>
<td>89</td>
</tr>
<tr>
<td>NAP</td>
<td>NET</td>
<td>100</td>
<td>100</td>
<td>86</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>SEW</td>
<td>FIG</td>
<td>99</td>
<td>99</td>
<td>91</td>
<td>88</td>
<td>90</td>
</tr>
<tr>
<td>GOT</td>
<td>SAD</td>
<td>99</td>
<td>100</td>
<td>87</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>GUT</td>
<td>JAR</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>SAK</td>
<td>SIN</td>
<td>94</td>
<td>99</td>
<td>90</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>DIM</td>
<td>TEL</td>
<td>99</td>
<td>99</td>
<td>90</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>BED</td>
<td>LAG</td>
<td>100</td>
<td>100</td>
<td>89</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>SOW</td>
<td>BUZ</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>BIT</td>
<td>LIZ</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>92</td>
<td>90</td>
</tr>
</tbody>
</table>
Table 3 (continued)

<table>
<thead>
<tr>
<th>CVC Pair</th>
<th>AS No. of Scaling</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
<th>Mean AV</th>
</tr>
</thead>
<tbody>
<tr>
<td>RUG DOT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>92</td>
<td>90</td>
</tr>
<tr>
<td>KEY NUT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>92</td>
<td>88</td>
<td>90</td>
</tr>
<tr>
<td>RID HUT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>91</td>
<td>90</td>
</tr>
<tr>
<td>JAN MET</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>92</td>
<td>90</td>
</tr>
<tr>
<td>PIC KAY</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>SAF RIV</td>
<td>3</td>
<td>69</td>
<td>69</td>
<td>90</td>
<td>90</td>
<td>90</td>
</tr>
<tr>
<td>MID GAL</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>87</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>HOW MAP</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>90</td>
<td>91</td>
<td>90</td>
</tr>
<tr>
<td>NED MAY</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>90</td>
<td>91</td>
<td>90</td>
</tr>
<tr>
<td>MAY JUG</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>90</td>
<td>91</td>
<td>90</td>
</tr>
<tr>
<td>JEW FAR</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>90</td>
<td>91</td>
<td>90</td>
</tr>
<tr>
<td>DON SIR</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>88</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>FUR RUT</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>88</td>
<td>93</td>
<td>90</td>
</tr>
<tr>
<td>CAB PET</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>92</td>
<td>89</td>
<td>90</td>
</tr>
<tr>
<td>PUT HOG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>92</td>
<td>90</td>
</tr>
<tr>
<td>MOB FIX</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>92</td>
<td>90</td>
</tr>
<tr>
<td>PUB TAB</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>SAP TOM</td>
<td>3</td>
<td>100</td>
<td>99</td>
<td>90</td>
<td>92</td>
<td>91</td>
</tr>
<tr>
<td>ROW DUG</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>WAD BOY</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>BIG PUG</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>90</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>HAL TEN</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>JON DEW</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>FIT HAM</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>90</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>SAD BIN</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>91</td>
<td>92</td>
<td>91</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of S</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>-------------</td>
<td>-------</td>
<td>-------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>GUN TIM</td>
<td>3</td>
<td>100</td>
<td>99</td>
<td>90</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>JAM BAY</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>91</td>
<td>92</td>
<td>91</td>
</tr>
<tr>
<td>MAX GUN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>93</td>
<td>89</td>
<td>91</td>
</tr>
<tr>
<td>SIX HAT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>92</td>
<td>91</td>
<td>91</td>
</tr>
<tr>
<td>LIP MUD</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>93</td>
<td>91</td>
</tr>
<tr>
<td>TOY DEN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>91</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>REX WAS</td>
<td>3</td>
<td>98</td>
<td>97</td>
<td>88</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>TUB FED</td>
<td>3</td>
<td>100</td>
<td>99</td>
<td>88</td>
<td>96</td>
<td>92</td>
</tr>
<tr>
<td>SAT HIP</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>93</td>
<td>91</td>
<td>92</td>
</tr>
<tr>
<td>COD TIN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>91</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>FIG SAW</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>89</td>
<td>94</td>
<td>92</td>
</tr>
<tr>
<td>REL COZ</td>
<td>3</td>
<td>72</td>
<td>74</td>
<td>92</td>
<td>92</td>
<td>92</td>
</tr>
<tr>
<td>GUT JIM</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>91</td>
<td>93</td>
<td>92</td>
</tr>
<tr>
<td>GUM ROB</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>88</td>
<td>96</td>
<td>92</td>
</tr>
<tr>
<td>RID PAT</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>89</td>
<td>95</td>
<td>92</td>
</tr>
<tr>
<td>WIT LAB</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>98</td>
<td>88</td>
<td>93</td>
</tr>
<tr>
<td>GEM WAX</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>93</td>
<td>93</td>
</tr>
<tr>
<td>ROB KIT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>92</td>
<td>94</td>
<td>93</td>
</tr>
<tr>
<td>WAR HIP</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>92</td>
<td>94</td>
<td>93</td>
</tr>
<tr>
<td>CUT TAR</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>92</td>
<td>94</td>
<td>93</td>
</tr>
<tr>
<td>NOW LIZ</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>92</td>
<td>94</td>
<td>93</td>
</tr>
<tr>
<td>YES BIT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>91</td>
<td>96</td>
<td>93</td>
</tr>
<tr>
<td>RAP SIX</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>93</td>
<td>93</td>
<td>93</td>
</tr>
<tr>
<td>SIT CAR</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>92</td>
<td>95</td>
<td>93</td>
</tr>
<tr>
<td>FIB SEX</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>93</td>
<td>94</td>
<td>93</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>COW CAN</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>LAB WIT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>BUM CAT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>92</td>
<td>96</td>
<td>94</td>
</tr>
<tr>
<td>LAY BAT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>VET FOX</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>94</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>WAY JET</td>
<td>3</td>
<td>99</td>
<td>100</td>
<td>94</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>FOR ROY</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>BUG WAX</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>BIN SAD</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>HOG SOB</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>DAM CUP</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>LIT SON</td>
<td>3</td>
<td>96</td>
<td>100</td>
<td>93</td>
<td>96</td>
<td>94</td>
</tr>
<tr>
<td>TAN FOX</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>95</td>
<td>93</td>
<td>94</td>
</tr>
<tr>
<td>HID PET</td>
<td>2</td>
<td>99</td>
<td>99</td>
<td>93</td>
<td>95</td>
<td>94</td>
</tr>
<tr>
<td>BUZ SOW</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>94</td>
<td>94</td>
<td>94</td>
</tr>
<tr>
<td>ROD BOX</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>92</td>
<td>97</td>
<td>94</td>
</tr>
<tr>
<td>MOB MUG</td>
<td>3</td>
<td>.99</td>
<td>99</td>
<td>93</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>TIN NUT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>93</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>MAR LAD</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>96</td>
<td>93</td>
<td>95</td>
</tr>
<tr>
<td>BAR FIT</td>
<td>2</td>
<td>100</td>
<td>100</td>
<td>94</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>GOD NED</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>97</td>
<td>93</td>
<td>95</td>
</tr>
<tr>
<td>CAR SIT</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>93</td>
<td>97</td>
<td>95</td>
</tr>
<tr>
<td>BOY MEN</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>SOF WOD</td>
<td>1</td>
<td>69</td>
<td>70</td>
<td>94</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>HOP NOT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>94</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>CVC Pair S R</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>-------------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>GAS BAN</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>94</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>LAZ DEY</td>
<td>3</td>
<td>68</td>
<td>68</td>
<td>93</td>
<td>97</td>
<td>95</td>
</tr>
<tr>
<td>NED GOD</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>95</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>WAX GEM</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>95</td>
<td>95</td>
</tr>
<tr>
<td>BUD HAS</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>94</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>TOY MAX</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>94</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>SAG LOT</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>SIR DON</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>HAY HOT</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>98</td>
<td>93</td>
<td>95</td>
</tr>
<tr>
<td>TOP LOG</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>96</td>
<td>95</td>
</tr>
<tr>
<td>TAN HID</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>94</td>
<td>97</td>
<td>95</td>
</tr>
<tr>
<td>JOB SAW</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>97</td>
<td>94</td>
<td>95</td>
</tr>
<tr>
<td>FAT SON</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>93</td>
<td>98</td>
<td>96</td>
</tr>
<tr>
<td>SUM COP</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>97</td>
<td>95</td>
<td>96</td>
</tr>
<tr>
<td>MUD WET</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>95</td>
<td>97</td>
<td>96</td>
</tr>
<tr>
<td>HID TAN</td>
<td>3</td>
<td>99</td>
<td>99</td>
<td>94</td>
<td>98</td>
<td>96</td>
</tr>
<tr>
<td>PAR KIT</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>95</td>
<td>97</td>
<td>96</td>
</tr>
<tr>
<td>PIG KEN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>95</td>
<td>97</td>
<td>96</td>
</tr>
<tr>
<td>FOG BAD</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>94</td>
<td>98</td>
<td>96</td>
</tr>
<tr>
<td>DOC BET</td>
<td>3</td>
<td>98</td>
<td>100</td>
<td>98</td>
<td>94</td>
<td>96</td>
</tr>
<tr>
<td>PEN WIN</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>96</td>
<td>97</td>
<td>96</td>
</tr>
<tr>
<td>DOG BAR</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>96</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>LIZ BIT</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>96</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>JON PAL</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>95</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>CVC Pair</td>
<td>AS No. of Scaling</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
<td>Mean AV</td>
</tr>
<tr>
<td>----------</td>
<td>------------------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
<td>---------</td>
</tr>
<tr>
<td>BEG GIN</td>
<td>1</td>
<td>100</td>
<td>100</td>
<td>96</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>DOT RUG</td>
<td>3</td>
<td>100</td>
<td>100</td>
<td>98</td>
<td>96</td>
<td>97</td>
</tr>
<tr>
<td>BAD ZIP</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>96</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>BUY WON</td>
<td>3</td>
<td>99</td>
<td>97</td>
<td>98</td>
<td>97</td>
<td>97</td>
</tr>
<tr>
<td>WIN FAT</td>
<td>3</td>
<td>100</td>
<td>99</td>
<td>.97</td>
<td>98</td>
<td>97</td>
</tr>
<tr>
<td>MAN RUN</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>95</td>
<td>99</td>
<td>97</td>
</tr>
<tr>
<td>LOW SAT</td>
<td>1</td>
<td>99</td>
<td>99</td>
<td>98</td>
<td>98</td>
<td>98</td>
</tr>
<tr>
<td>BIG WED</td>
<td>2</td>
<td>99</td>
<td>100</td>
<td>98</td>
<td>99</td>
<td>98</td>
</tr>
</tbody>
</table>
Table 4
Associability of Pairs of Mixed Stimulus and Response $AV$
Scaled in $AS-3$ Ordered by Increasing $MAS$
(a) High stimulus $AV$, low response $AV$ (HL)

<table>
<thead>
<tr>
<th>CVC pair S</th>
<th>S $AV$</th>
<th>R $AV$</th>
<th>MAS</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>POD VUW</td>
<td>97</td>
<td>19</td>
<td>25</td>
<td>30</td>
</tr>
<tr>
<td>PUS QOB</td>
<td>97</td>
<td>17</td>
<td>25</td>
<td>35</td>
</tr>
<tr>
<td>HEM GIQ</td>
<td>98</td>
<td>15</td>
<td>28</td>
<td>30</td>
</tr>
<tr>
<td>YEN TIJ</td>
<td>97</td>
<td>13</td>
<td>28</td>
<td>43</td>
</tr>
<tr>
<td>YAP GU X</td>
<td>95</td>
<td>19</td>
<td>30</td>
<td>39</td>
</tr>
<tr>
<td>TOD VIH</td>
<td>98</td>
<td>20</td>
<td>32</td>
<td>36</td>
</tr>
<tr>
<td>NIL QEZ</td>
<td>98</td>
<td>17</td>
<td>33</td>
<td>39</td>
</tr>
<tr>
<td>SUB YIF</td>
<td>98</td>
<td>16</td>
<td>33</td>
<td>40</td>
</tr>
<tr>
<td>NOB WEQ</td>
<td>98</td>
<td>20</td>
<td>36</td>
<td>55</td>
</tr>
<tr>
<td>DEB FUV</td>
<td>97</td>
<td>17</td>
<td>38</td>
<td>50</td>
</tr>
<tr>
<td>HUG ZIW</td>
<td>97</td>
<td>13</td>
<td>38</td>
<td>47</td>
</tr>
<tr>
<td>MOP QAV</td>
<td>99</td>
<td>14</td>
<td>38</td>
<td>47</td>
</tr>
<tr>
<td>MEL VUY</td>
<td>97</td>
<td>18</td>
<td>39</td>
<td>46</td>
</tr>
<tr>
<td>LAW QUG</td>
<td>100</td>
<td>14</td>
<td>40</td>
<td>45</td>
</tr>
<tr>
<td>CAD JIQ</td>
<td>97</td>
<td>13</td>
<td>41</td>
<td>47</td>
</tr>
<tr>
<td>DUB KEH</td>
<td>96</td>
<td>22</td>
<td>41</td>
<td>44</td>
</tr>
<tr>
<td>JAW ZEQ</td>
<td>98</td>
<td>15</td>
<td>42</td>
<td>48</td>
</tr>
<tr>
<td>PEW JIY</td>
<td>97</td>
<td>14</td>
<td>42</td>
<td>51</td>
</tr>
<tr>
<td>JAY NUV</td>
<td>98</td>
<td>15</td>
<td>43</td>
<td>48</td>
</tr>
<tr>
<td>GIT VAF</td>
<td>97</td>
<td>22</td>
<td>43</td>
<td>45</td>
</tr>
</tbody>
</table>
Montague

Table 4 (continued)

(a) High stimulus $AV$, low response $AV$ (HL)

<table>
<thead>
<tr>
<th>CVC pair</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>JAG QOX</td>
<td>99</td>
<td>19</td>
<td>43</td>
<td>52</td>
</tr>
<tr>
<td>LAP WUX</td>
<td>100</td>
<td>18</td>
<td>45</td>
<td>61</td>
</tr>
<tr>
<td>HUT RIW</td>
<td>100</td>
<td>15</td>
<td>45</td>
<td>42</td>
</tr>
<tr>
<td>WED QUG</td>
<td>100</td>
<td>18</td>
<td>45</td>
<td>61</td>
</tr>
<tr>
<td>PAN SIJ</td>
<td>99</td>
<td>14</td>
<td>46</td>
<td>56</td>
</tr>
<tr>
<td>FUN VAW</td>
<td>100</td>
<td>16</td>
<td>47</td>
<td>55</td>
</tr>
<tr>
<td>BOP JIC</td>
<td>98</td>
<td>20</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>FIB WOJ</td>
<td>99</td>
<td>13</td>
<td>48</td>
<td>55</td>
</tr>
<tr>
<td>WIL QAX</td>
<td>97</td>
<td>22</td>
<td>48</td>
<td>53</td>
</tr>
<tr>
<td>JIG QEC</td>
<td>98</td>
<td>16</td>
<td>49</td>
<td>49</td>
</tr>
<tr>
<td>PAL YUB</td>
<td>100</td>
<td>14</td>
<td>49</td>
<td>63</td>
</tr>
<tr>
<td>SET WIJ</td>
<td>99</td>
<td>13</td>
<td>49</td>
<td>60</td>
</tr>
<tr>
<td>JOY GEC</td>
<td>100</td>
<td>17</td>
<td>50</td>
<td>48</td>
</tr>
<tr>
<td>HUB QEK</td>
<td>98</td>
<td>17</td>
<td>53</td>
<td>56</td>
</tr>
<tr>
<td>ROW QAS</td>
<td>99</td>
<td>17</td>
<td>53</td>
<td>63</td>
</tr>
<tr>
<td>HIM QUC</td>
<td>100</td>
<td>15</td>
<td>53</td>
<td>64</td>
</tr>
<tr>
<td>RAT NIY</td>
<td>100</td>
<td>22</td>
<td>54</td>
<td>59</td>
</tr>
<tr>
<td>FIX QAG</td>
<td>100</td>
<td>17</td>
<td>56</td>
<td>55</td>
</tr>
<tr>
<td>SUP MIW</td>
<td>96</td>
<td>22</td>
<td>56</td>
<td>64</td>
</tr>
<tr>
<td>HIS QOL</td>
<td>98</td>
<td>19</td>
<td>58</td>
<td>63</td>
</tr>
<tr>
<td>PAM YEC</td>
<td>97</td>
<td>13</td>
<td>58</td>
<td>63</td>
</tr>
<tr>
<td>TOW XAS</td>
<td>97</td>
<td>14</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>CVC pair</td>
<td>S AV</td>
<td>R AV</td>
<td>MAS</td>
<td>FAS</td>
</tr>
<tr>
<td>----------</td>
<td>------</td>
<td>------</td>
<td>-----</td>
<td>-----</td>
</tr>
<tr>
<td>NEW</td>
<td>99</td>
<td>14</td>
<td>58</td>
<td>64</td>
</tr>
<tr>
<td>HEY</td>
<td>97</td>
<td>17</td>
<td>59</td>
<td>61</td>
</tr>
<tr>
<td>RIP</td>
<td>100</td>
<td>18</td>
<td>59</td>
<td>52</td>
</tr>
<tr>
<td>LET</td>
<td>100</td>
<td>16</td>
<td>61</td>
<td>67</td>
</tr>
<tr>
<td>HAG</td>
<td>99</td>
<td>21</td>
<td>62</td>
<td>73</td>
</tr>
<tr>
<td>DAY</td>
<td>100</td>
<td>21</td>
<td>63</td>
<td>73</td>
</tr>
<tr>
<td>LAX</td>
<td>98</td>
<td>17</td>
<td>63</td>
<td>73</td>
</tr>
<tr>
<td>BAG</td>
<td>99</td>
<td>20</td>
<td>64</td>
<td>66</td>
</tr>
<tr>
<td>HIT</td>
<td>100</td>
<td>17</td>
<td>66</td>
<td>65</td>
</tr>
<tr>
<td>TAX</td>
<td>97</td>
<td>19</td>
<td>66</td>
<td>63</td>
</tr>
<tr>
<td>GET</td>
<td>100</td>
<td>15</td>
<td>67</td>
<td>67</td>
</tr>
<tr>
<td>RAM</td>
<td>100</td>
<td>21</td>
<td>69</td>
<td>72</td>
</tr>
<tr>
<td>RAY</td>
<td>100</td>
<td>21</td>
<td>69</td>
<td>73</td>
</tr>
<tr>
<td>FIN</td>
<td>99</td>
<td>14</td>
<td>71</td>
<td>68</td>
</tr>
<tr>
<td>SAM</td>
<td>100</td>
<td>21</td>
<td>71</td>
<td>72</td>
</tr>
<tr>
<td>HEN</td>
<td>98</td>
<td>17</td>
<td>73</td>
<td>69</td>
</tr>
<tr>
<td>MIS</td>
<td>97</td>
<td>19</td>
<td>73</td>
<td>73</td>
</tr>
</tbody>
</table>
Table 4 (continued)

**Associability of Pairs of Mixed Stimulus and Response AV**

**Scaled in AS-3 Ordered by Increasing MAS**

**(b) Low stimulus AV, high response AV (LH)**

<table>
<thead>
<tr>
<th>CVC pair S</th>
<th>S AV</th>
<th>R AV</th>
<th>MAS</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>ZUV TAD</td>
<td>13</td>
<td>97</td>
<td>28</td>
<td>35</td>
</tr>
<tr>
<td>VOB NIP</td>
<td>19</td>
<td>.98</td>
<td>33</td>
<td>38</td>
</tr>
<tr>
<td>MOJ WEB</td>
<td>13</td>
<td>100</td>
<td>37</td>
<td>43</td>
</tr>
<tr>
<td>QUW MIT</td>
<td>13</td>
<td>100</td>
<td>38</td>
<td>37</td>
</tr>
<tr>
<td>ZUH VIC</td>
<td>20</td>
<td>97</td>
<td>38</td>
<td>35</td>
</tr>
<tr>
<td>JIK GAB</td>
<td>21</td>
<td>.98</td>
<td>38</td>
<td>43</td>
</tr>
<tr>
<td>LIJ TUX</td>
<td>17</td>
<td>97</td>
<td>38</td>
<td>45</td>
</tr>
<tr>
<td>SOJ TIC</td>
<td>19</td>
<td>99</td>
<td>38</td>
<td>43</td>
</tr>
<tr>
<td>BUW SOC</td>
<td>21</td>
<td>.97</td>
<td>39</td>
<td>48</td>
</tr>
<tr>
<td>QOZ RED</td>
<td>19</td>
<td>99</td>
<td>39</td>
<td>61</td>
</tr>
<tr>
<td>XED JOT</td>
<td>13</td>
<td>98</td>
<td>41</td>
<td>43</td>
</tr>
<tr>
<td>DAJ SOY</td>
<td>22</td>
<td>96</td>
<td>43</td>
<td>43</td>
</tr>
<tr>
<td>FIQ VEL</td>
<td>20</td>
<td>96</td>
<td>43</td>
<td>51</td>
</tr>
<tr>
<td>JEQ SAL</td>
<td>14</td>
<td>98</td>
<td>43</td>
<td>51</td>
</tr>
<tr>
<td>MEJ DOZ</td>
<td>17</td>
<td>98</td>
<td>43</td>
<td>57</td>
</tr>
<tr>
<td>CUJ DAN</td>
<td>15</td>
<td>99</td>
<td>44</td>
<td>49</td>
</tr>
<tr>
<td>HOJ NIX</td>
<td>22</td>
<td>97</td>
<td>45</td>
<td>38</td>
</tr>
<tr>
<td>NAJ BID</td>
<td>18</td>
<td>99</td>
<td>45</td>
<td>48</td>
</tr>
<tr>
<td>XEL NAY</td>
<td>21</td>
<td>98</td>
<td>46</td>
<td>44</td>
</tr>
<tr>
<td>YUQ HOT</td>
<td>16</td>
<td>100</td>
<td>46</td>
<td>51</td>
</tr>
<tr>
<td>WUB MON</td>
<td>21</td>
<td>97</td>
<td>48</td>
<td>48</td>
</tr>
<tr>
<td>XAV TON</td>
<td>16</td>
<td>98</td>
<td>48</td>
<td>55</td>
</tr>
</tbody>
</table>
Table 4 (continued)

(b) Low stimulus $AV$, high response $AV$ (HL)

<table>
<thead>
<tr>
<th>CVC pair</th>
<th>$S$</th>
<th>$R$</th>
<th>MAS</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>$AV$</td>
<td>$AV$</td>
<td></td>
<td></td>
</tr>
<tr>
<td>YIB</td>
<td>16</td>
<td>99</td>
<td>48</td>
<td>55</td>
</tr>
<tr>
<td>ZIQ</td>
<td>17</td>
<td>100</td>
<td>48</td>
<td>53</td>
</tr>
<tr>
<td>XOW</td>
<td>19</td>
<td>100</td>
<td>50</td>
<td>53</td>
</tr>
<tr>
<td>KIW</td>
<td>10</td>
<td>100</td>
<td>51</td>
<td>51</td>
</tr>
<tr>
<td>ZUX</td>
<td>14</td>
<td>99</td>
<td>51</td>
<td>48</td>
</tr>
<tr>
<td>QAH</td>
<td>14</td>
<td>99</td>
<td>52</td>
<td>56</td>
</tr>
<tr>
<td>ZEC</td>
<td>17</td>
<td>99</td>
<td>53</td>
<td>66</td>
</tr>
<tr>
<td>MEF</td>
<td>22</td>
<td>99</td>
<td>53</td>
<td>62</td>
</tr>
<tr>
<td>QOC</td>
<td>21</td>
<td>100</td>
<td>53</td>
<td>57</td>
</tr>
<tr>
<td>QOK</td>
<td>15</td>
<td>100</td>
<td>53</td>
<td>56</td>
</tr>
<tr>
<td>RIH</td>
<td>22</td>
<td>98</td>
<td>53</td>
<td>55</td>
</tr>
<tr>
<td>VEQ</td>
<td>17</td>
<td>99</td>
<td>53</td>
<td>51</td>
</tr>
<tr>
<td>CEQ</td>
<td>19</td>
<td>100</td>
<td>54</td>
<td>68</td>
</tr>
<tr>
<td>XIL</td>
<td>13</td>
<td>99</td>
<td>54</td>
<td>50</td>
</tr>
<tr>
<td>ZOS</td>
<td>13</td>
<td>99</td>
<td>54</td>
<td>55</td>
</tr>
<tr>
<td>YOX</td>
<td>16</td>
<td>100</td>
<td>55</td>
<td>49</td>
</tr>
<tr>
<td>XIV</td>
<td>18</td>
<td>98</td>
<td>56</td>
<td>43</td>
</tr>
<tr>
<td>YOV</td>
<td>22</td>
<td>96</td>
<td>56</td>
<td>58</td>
</tr>
<tr>
<td>CAQ</td>
<td>22</td>
<td>96</td>
<td>58</td>
<td>58</td>
</tr>
<tr>
<td>HIW</td>
<td>19</td>
<td>98</td>
<td>59</td>
<td>70</td>
</tr>
<tr>
<td>XEN</td>
<td>15</td>
<td>99</td>
<td>59</td>
<td>59</td>
</tr>
<tr>
<td>YEX</td>
<td>19</td>
<td>100</td>
<td>59</td>
<td>61</td>
</tr>
</tbody>
</table>
Table 4 (continued)

(b) Low stimulus AV, high response AV (LH)

<table>
<thead>
<tr>
<th>CVC pair</th>
<th>S</th>
<th>R</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>AV</td>
<td>AV</td>
</tr>
<tr>
<td>COJ</td>
<td>COJ</td>
<td>LES</td>
</tr>
<tr>
<td>JEV</td>
<td>JEV</td>
<td>HAD</td>
</tr>
<tr>
<td>QIG</td>
<td>QIG</td>
<td>YES</td>
</tr>
<tr>
<td>WOY</td>
<td>WOY</td>
<td>CAL</td>
</tr>
<tr>
<td>ZEH</td>
<td>ZEH</td>
<td>ROT</td>
</tr>
<tr>
<td>LIW</td>
<td>LIW</td>
<td>RUM</td>
</tr>
<tr>
<td>QEH</td>
<td>QEH</td>
<td>TIP</td>
</tr>
<tr>
<td>FIW</td>
<td>FIW</td>
<td>HEP</td>
</tr>
<tr>
<td>VUH</td>
<td>VUH</td>
<td>DEN</td>
</tr>
<tr>
<td>XAT</td>
<td>XAT</td>
<td>PEG</td>
</tr>
<tr>
<td>QUK</td>
<td>QUK</td>
<td>HER</td>
</tr>
<tr>
<td>YUX</td>
<td>YUX</td>
<td>MAD</td>
</tr>
<tr>
<td>GIW</td>
<td>GIW</td>
<td>SEX</td>
</tr>
<tr>
<td>PIJ</td>
<td>PIJ</td>
<td>HUM</td>
</tr>
<tr>
<td>WEF</td>
<td>WEF</td>
<td>SOX</td>
</tr>
</tbody>
</table>
Table 5

Items Previously Scaled by Richardson and Erlebacher (1958) and Used in an Experiment by Goins and Nodine (1965) Ordered in Terms of Increasing MAS

<table>
<thead>
<tr>
<th>CVC</th>
<th>CVC</th>
<th>S</th>
<th>AV</th>
<th>R</th>
<th>EL*</th>
<th>CM*</th>
<th>MAS</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>XEJ</td>
<td>FON</td>
<td>3</td>
<td>65</td>
<td>4.33</td>
<td>3.11</td>
<td>21</td>
<td>19</td>
<td></td>
</tr>
<tr>
<td>VAF</td>
<td>QAP</td>
<td>22</td>
<td>24</td>
<td>5.87</td>
<td>3.85</td>
<td>24</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>LAJ</td>
<td>VUX</td>
<td>14</td>
<td>18</td>
<td>4.77</td>
<td>3.24</td>
<td>26</td>
<td>16</td>
<td></td>
</tr>
<tr>
<td>JAT</td>
<td>LEQ</td>
<td>41</td>
<td>28</td>
<td>5.98</td>
<td>3.91</td>
<td>28</td>
<td>30</td>
<td></td>
</tr>
<tr>
<td>TFV</td>
<td>XEF</td>
<td>40</td>
<td>3</td>
<td>5.02</td>
<td>2.68</td>
<td>28</td>
<td>27</td>
<td></td>
</tr>
<tr>
<td>XEQ</td>
<td>GID</td>
<td>6</td>
<td>63</td>
<td>4.44</td>
<td>2.61</td>
<td>29</td>
<td>28</td>
<td></td>
</tr>
<tr>
<td>YEG</td>
<td>MEC</td>
<td>31</td>
<td>67</td>
<td>5.63</td>
<td>3.70</td>
<td>29</td>
<td>32</td>
<td></td>
</tr>
<tr>
<td>BIP</td>
<td>QES</td>
<td>71</td>
<td>26</td>
<td>5.81</td>
<td>3.07</td>
<td>30</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>KEX</td>
<td>BEH</td>
<td>39</td>
<td>44</td>
<td>6.53</td>
<td>3.59</td>
<td>30</td>
<td>33</td>
<td></td>
</tr>
<tr>
<td>HOD</td>
<td>BOF</td>
<td>69</td>
<td>31</td>
<td>6.75</td>
<td>4.96</td>
<td>37</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>TES</td>
<td>JIQ</td>
<td>80</td>
<td>13</td>
<td>5.26</td>
<td>3.19</td>
<td>37</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>PAC</td>
<td>QIH</td>
<td>93</td>
<td>6</td>
<td>5.74</td>
<td>2.96</td>
<td>38</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>LAN</td>
<td>KUC</td>
<td>75</td>
<td>32</td>
<td>6.80</td>
<td>3.85</td>
<td>40</td>
<td>54</td>
<td></td>
</tr>
<tr>
<td>GIC</td>
<td>WIP</td>
<td>19</td>
<td>86</td>
<td>7.11</td>
<td>4.25</td>
<td>42</td>
<td>44</td>
<td></td>
</tr>
<tr>
<td>VAK</td>
<td>JEN</td>
<td>37</td>
<td>88</td>
<td>6.47</td>
<td>3.98</td>
<td>42</td>
<td>43</td>
<td></td>
</tr>
<tr>
<td>CJI</td>
<td>DUL</td>
<td>8</td>
<td>91</td>
<td>5.07</td>
<td>3.39</td>
<td>43</td>
<td>53</td>
<td></td>
</tr>
<tr>
<td>BES</td>
<td>CEH</td>
<td>85</td>
<td>25</td>
<td>5.91</td>
<td>4.43</td>
<td>45</td>
<td>59</td>
<td></td>
</tr>
<tr>
<td>BEP</td>
<td>LIS</td>
<td>58</td>
<td>83</td>
<td>7.16</td>
<td>4.54</td>
<td>47</td>
<td>48</td>
<td></td>
</tr>
<tr>
<td>REG</td>
<td>KIH</td>
<td>91</td>
<td>15</td>
<td>5.59</td>
<td>4.17</td>
<td>48</td>
<td>58</td>
<td></td>
</tr>
<tr>
<td>BEL</td>
<td>VIF</td>
<td>99</td>
<td>21</td>
<td>6.99</td>
<td>3.75</td>
<td>58</td>
<td>62</td>
<td></td>
</tr>
<tr>
<td>GOV</td>
<td>NUB</td>
<td>95</td>
<td>76</td>
<td>6.68</td>
<td>4.24</td>
<td>58</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>NAV</td>
<td>RUQ</td>
<td>72</td>
<td>24</td>
<td>6.45</td>
<td>4.75</td>
<td>58</td>
<td>72</td>
<td></td>
</tr>
<tr>
<td>POH</td>
<td>SAV</td>
<td>52</td>
<td>86</td>
<td>7.03</td>
<td>4.42</td>
<td>62</td>
<td>68</td>
<td></td>
</tr>
<tr>
<td>VOL</td>
<td>DET</td>
<td>82</td>
<td>69</td>
<td>7.96</td>
<td>5.20</td>
<td>65</td>
<td>66</td>
<td></td>
</tr>
<tr>
<td>PAV</td>
<td>KOF</td>
<td>76</td>
<td>71</td>
<td>7.59</td>
<td>4.28</td>
<td>70</td>
<td>73</td>
<td></td>
</tr>
<tr>
<td>WIZ</td>
<td>SEC</td>
<td>83</td>
<td>88</td>
<td>6.99</td>
<td>5.94</td>
<td>80</td>
<td>82</td>
<td></td>
</tr>
<tr>
<td>TEL</td>
<td>CUM</td>
<td>99</td>
<td>92</td>
<td>8.89</td>
<td>6.39</td>
<td>92</td>
<td>97</td>
<td></td>
</tr>
<tr>
<td>FEM</td>
<td>HOS</td>
<td>90</td>
<td>81</td>
<td>8.22</td>
<td>6.47</td>
<td>93</td>
<td>93</td>
<td></td>
</tr>
</tbody>
</table>

*Ease of Learning (EL) and Common Meaning (CM) values from Richardson and Erlebacher (1958).
### Table 6

**Pairs Used in Experiments 1, 2, and 3, Their Mean $\Delta \tilde{V}$ and FAS Values**

<table>
<thead>
<tr>
<th>Group 1 (Lowest AS)</th>
<th>Mean $\Delta \tilde{V}$</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>QEF</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>ZIJ</td>
<td>4</td>
<td>17</td>
</tr>
<tr>
<td>XUB</td>
<td>8</td>
<td>26</td>
</tr>
<tr>
<td>HIB</td>
<td>43.5</td>
<td>29</td>
</tr>
<tr>
<td>RAX</td>
<td>45.5</td>
<td>35</td>
</tr>
<tr>
<td>MOY</td>
<td>46</td>
<td>51</td>
</tr>
<tr>
<td>CAY</td>
<td>74</td>
<td>49</td>
</tr>
<tr>
<td>YUK</td>
<td>67.5</td>
<td>45</td>
</tr>
<tr>
<td>BIM</td>
<td>68</td>
<td>73</td>
</tr>
<tr>
<td>PAR</td>
<td>99</td>
<td>80</td>
</tr>
<tr>
<td>VAN</td>
<td>100</td>
<td>82</td>
</tr>
<tr>
<td>BEL</td>
<td>99</td>
<td></td>
</tr>
</tbody>
</table>

| Mean                | 55.2                    | 43  |

<table>
<thead>
<tr>
<th>Group 2 (Low-Middle AS)</th>
<th>Mean $\Delta \tilde{V}$</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>YIG</td>
<td>10</td>
<td>22</td>
</tr>
<tr>
<td>XUP</td>
<td>7.5</td>
<td>23</td>
</tr>
<tr>
<td>QEV</td>
<td>11.5</td>
<td>24</td>
</tr>
<tr>
<td>DIQ</td>
<td>41</td>
<td>43</td>
</tr>
<tr>
<td>JAH</td>
<td>44</td>
<td>43</td>
</tr>
<tr>
<td>BEH</td>
<td>44</td>
<td>44</td>
</tr>
<tr>
<td>DAL</td>
<td>73.5</td>
<td>65</td>
</tr>
<tr>
<td>TAV</td>
<td>69.5</td>
<td>64</td>
</tr>
<tr>
<td>LIQ</td>
<td>72.5</td>
<td>64</td>
</tr>
<tr>
<td>DIM</td>
<td>99</td>
<td>89</td>
</tr>
<tr>
<td>PUT</td>
<td>99</td>
<td>90</td>
</tr>
<tr>
<td>SOW</td>
<td>99</td>
<td>90</td>
</tr>
</tbody>
</table>

<p>| Mean                | 55.9                    | 55  |</p>
<table>
<thead>
<tr>
<th>Group 3 (High-Middle AS)</th>
<th>Mean AV</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>GUQ FOJ</td>
<td>11</td>
<td>30</td>
</tr>
<tr>
<td>XET QAJ</td>
<td>11</td>
<td>30</td>
</tr>
<tr>
<td>YUJ XOG</td>
<td>9</td>
<td>30</td>
</tr>
<tr>
<td>VAD JUK</td>
<td>29.5</td>
<td>53</td>
</tr>
<tr>
<td>TEP WIX</td>
<td>44.5</td>
<td>58</td>
</tr>
<tr>
<td>PUH WEJ</td>
<td>42</td>
<td>53</td>
</tr>
<tr>
<td>PES DAW</td>
<td>67.5</td>
<td>71</td>
</tr>
<tr>
<td>NAM DUP</td>
<td>73.5</td>
<td>73</td>
</tr>
<tr>
<td>ROF LEF</td>
<td>67</td>
<td>74</td>
</tr>
<tr>
<td>RAP SIX</td>
<td>99</td>
<td>93</td>
</tr>
<tr>
<td>JOB SAW</td>
<td>100</td>
<td>94</td>
</tr>
<tr>
<td>ROB KIT</td>
<td>100</td>
<td>94</td>
</tr>
<tr>
<td>Mean</td>
<td>55.3</td>
<td>63</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Group 4 (High AS)</th>
<th>Mean AV</th>
<th>FAS</th>
</tr>
</thead>
<tbody>
<tr>
<td>VIJ XON</td>
<td>9</td>
<td>57</td>
</tr>
<tr>
<td>ZAJ XIZ</td>
<td>7</td>
<td>41</td>
</tr>
<tr>
<td>TUJ YOJ</td>
<td>9.5</td>
<td>53</td>
</tr>
<tr>
<td>YUS NIS</td>
<td>40.5</td>
<td>75</td>
</tr>
<tr>
<td>QAN GOH</td>
<td>40.5</td>
<td>78</td>
</tr>
<tr>
<td>XAM LOZ</td>
<td>39</td>
<td>70</td>
</tr>
<tr>
<td>CAS PEL</td>
<td>75</td>
<td>90</td>
</tr>
<tr>
<td>RIV SAF</td>
<td>69</td>
<td>84</td>
</tr>
<tr>
<td>BOK DET</td>
<td>69</td>
<td>85</td>
</tr>
<tr>
<td>DOG BAR</td>
<td>100</td>
<td>98</td>
</tr>
<tr>
<td>TAN HID</td>
<td>99</td>
<td>97</td>
</tr>
<tr>
<td>MAN RUN</td>
<td>99</td>
<td>99</td>
</tr>
<tr>
<td>Mean</td>
<td>54.7</td>
<td>77</td>
</tr>
</tbody>
</table>
Table 7

Average Number of Exposures per Item on Trial 1 and To Criterion, and Proportion of NLMs Reported per Item in Experiment 1

<table>
<thead>
<tr>
<th>AV Levels Within Lists</th>
<th>Trial 1</th>
<th>To Criterion</th>
<th>Prop. NLMs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Low</td>
<td>6.10</td>
<td>6.46</td>
<td>7.10</td>
</tr>
<tr>
<td></td>
<td>12.31</td>
<td>13.38</td>
<td>15.73</td>
</tr>
<tr>
<td></td>
<td>.06</td>
<td>.21</td>
<td>.29</td>
</tr>
<tr>
<td>Low-Middle</td>
<td>5.48</td>
<td>6.00</td>
<td>5.14</td>
</tr>
<tr>
<td></td>
<td>11.15</td>
<td>12.08</td>
<td>11.81</td>
</tr>
<tr>
<td></td>
<td>.25</td>
<td>.48</td>
<td>.35</td>
</tr>
<tr>
<td>High-Middle</td>
<td>4.31</td>
<td>4.77</td>
<td>3.29</td>
</tr>
<tr>
<td></td>
<td>9.35</td>
<td>10.40</td>
<td>8.60</td>
</tr>
<tr>
<td></td>
<td>.35</td>
<td>.56</td>
<td>.58</td>
</tr>
<tr>
<td>High</td>
<td>2.56</td>
<td>2.73</td>
<td>2.19</td>
</tr>
<tr>
<td></td>
<td>6.75</td>
<td>7.27</td>
<td>7.21</td>
</tr>
<tr>
<td></td>
<td>.42</td>
<td>.67</td>
<td>.79</td>
</tr>
<tr>
<td>Means</td>
<td>4.61</td>
<td>4.99</td>
<td>4.43</td>
</tr>
<tr>
<td></td>
<td>9.89</td>
<td>10.78</td>
<td>10.84</td>
</tr>
<tr>
<td></td>
<td>.27</td>
<td>.48</td>
<td>.51</td>
</tr>
</tbody>
</table>

*pMean AS*
Table 8
Average Number of Exposures per Item on Trial 1 and To Criterion, and Proportion of NLMs Reported per Item in Experiments 2 and 3

| AV Levels Within Lists | Experiment 2 | | | | | | Experiment 3 | | | | |
|------------------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
|                        | List 1      | List 4      | Mean        | List 1      | List 4      | Mean        | List 1      | List 4      | Mean        |
| Low                    | (43)*       | (77)*       |             |             |             |             |             |             |             |
| Trial 1                | 7.36        | 7.51        | 7.43        | 4.84        | 4.28        | 4.56        |
| To Criterion           | 16.09       | 14.98       | 15.54       | 9.01        | 7.69        | 8.35        |
| Prop. NLMs             | .02         | .20         | .11         | .09         | .26         | .17         |
| Low-Middle             |             |             |             |             |             |             |             |             |             |
| Trial 1                | 5.73        | 5.31        | 5.52        | 3.95        | 3.28        | 3.61        |
| To Criterion           | 13.31       | 10.42       | 11.87       | 8.21        | 6.20        | 7.20        |
| Prop. NLMs             | .16         | .29         | .23         | .32         | .54         | .43         |
| High-Middle            |             |             |             |             |             |             |             |             |             |
| Trial 1                | 5.22        | 3.13        | 4.18        | 3.44        | 2.32        | 2.88        |
| To Criterion           | 11.91       | 7.42        | 9.67        | 7.00        | 4.91        | 5.95        |
| Prop. NLMs             | .16         | .47         | .32         | .49         | .67         | .58         |
| High                   |             |             |             |             |             |             |             |             |             |
| Trial 1                | 2.67        | 2.13        | 2.40        | 1.96        | 1.42        | 1.69        |
| To Criterion           | 7.87        | 6.33        | 7.10        | 5.04        | 3.93        | 4.48        |
| Prop. NLMs             | .27         | .60         | .44         | .56         | .59         | .57         |
| Means                  |             |             |             |             |             |             |             |             |             |
| Trial 1                | 5.25        | 4.52        | 3.54        | 2.82        |
| To Criterion           | 12.30       | 9.79        | 7.31        | 5.68        |
| Prop. NLMs             | .15         | .39         | .36         | .51         |

*Mean AS