# STATISTICAL DATA ON MINOAN WORDS

The complete Minoan words (Linear Script B), which are now known from inscriptions published to this day, amount to 2529.[1] Out of this number occur:

I.   A) *Only* in Knossos          1267 (1266)
     B) *Only* in Pylos            1027
     C) *Only* in Mycenae            62
     D) *Only* in Thebes             11
     E) *Only* in Tiryns             2
     F) *Only* in Eleusis            1
                                  _____
                                  2370 (2369)

II. *Common:*
     a) to Knossos and Pylos              135
     b) to Knossos, Pylos, and Mycenae      4
     c) to Knossos and Mycenae              4 (5)
     d) to Pylos and Mycenae                7
     e) to Knossos and Thebes               6
     f) to Knossos and Tiryns               1
     g) to Knossos and Eleusis              1
     h) to Knossos, Pylos, and Thebes       1
                                         _____
                                         159 (160)  Gr. total 2529

It is to be remarked that only the words which are exactly the same are here considered as *common*. But, besides these words, there is also a great number of Minoan complete words which must be considered as *common*, because they are evidently the same words plus a termination or suffix, or with different terminations owing to the inflection of the words[2], e. g.

---

[1] Cf. E. L. Bennett, Jr., *A Minoan Linear B Index*, New Haven 1953, and *The Mycenae Tablets* (Proceedings of the American Philosophical Society, XCVII, 4), Philadelphia 1953.

[2] Cf. Const. D. Ktistopoulos, *Recherches sur les mots minoens*, Athènes 1952.

| Knossos | Pylos | Mycenae |
|---|---|---|
| ⊏2Ⱶ𐜼 | ⊏2𐜼𐝉𐜼 | |
| ⊕𐜼Ⱶ𐝉 | ⊕𐜼Ⱶ𐝉 | ⊕𐜼Ⱶ𐝉⊖ |
| 𐙀𐘨𐝠𐘨 | 𐙀𐘨𐝠𐜼 | |
| | ⊕𐜼𐘨𐝉/⊕𐜼𐘨𐝉𐝠³ | ⊕𐜼𐘨2 |

Out of 2529 complete words:

| 272 | (10,76 $^o/_o$) | are formed by 2 signs ( | = | 544 signs) |
|---|---|---|---|---|
| 902 | (35,67 $^o/_o$) | are formed by 3 signs ( | = | 2706 signs) |
| 934 | (36,93 $^o/_o$) | are formed by 4 signs ( | = | 3736 signs) |
| 340 | (13,44 $^o/_o$) | are formed by 5 signs ( | = | 1700 signs) |
| 65 | | are formed by 6 signs ( | = | 390 signs) |
| 15 | ( 3,20 $^o/_o$) | are formed by 7 signs ( | = | 105 signs) |
| 1 | | is formed by 8 signs ( | = | 8 signs) |
| 2529 words | | | | 9189 signs |

As to the positions of the signs, the above mentioned total of 9189 signs is distributed as follows:

| initial | 2529 |
|---|---|
| final | 2529 |
| second (in words formed by 3 or more signs) | 2257 |
| penultimate (in words formed by 4 or more signs) | 1355 |
| other positions (in words formed by 5 or more signs) | 519 |
| | 9189 |

\* \* \*

The details of the positions of individual signs are indicated in the following tables of frequencies.

Table I indicates how many times each sign occurs as initial (I), final (F), second (S), penultimate (P), in other positions (OP) and in total (T). This table contains 75 signs, each of which occurs in total at least 5 times (in the complete words). The total frequency of all the remaining 15 signs, each of which occurs less than 5 times in total, is represented by 29 on the grand total of 9189 signs, as follows: initial 6, final 10, second 9, penultimate 4.

## TABLE I

### (FREQUENCIES OF MINOAN SIGNS)

*Linear script B*             *2529 complete words*

| Sign | I | F | S | P | OP | T | | Sign | I | F | S | P | OP | T |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| (sign) | 51 | 13 | 36 | 24 | 14 | 138 | | (sign) | 1 | — | 5 | 2 | — | 8 |
| (sign) | 8 | 176 | 91 | 32 | 20 | 327 | | (sign) | 7 | — | 5 | 1 | — | 13 |
| (sign) | 74 | 9 | 39 | 12 | 10 | 144 | | (sign) | 24 | 36 | 29 | 27 | 6 | 122 |
| (sign) | 54 | 62 | 67 | 68 | 31 | 282 | | (sign) | 14 | 8 | 4 | 1 | 3 | 30 |
| (sign) | 48 | 152 | 50 | 36 | 9 | 295 | | (sign) | 24 | 5 | 48 | 7 | 9 | 93 |
| (sign) | 14 | 46 | 58 | 29 | 6 | 153 | | (sign) | 32 | 35 | 91 | 61 | 22 | 241 |
| (sign) | 38 | 5 | 15 | 6 | 5 | 69 | | (sign) | 65 | 27 | 27 | 44 | 8 | 171 |
| (sign) | 338 | 16 | 8 | 2 | 7 | 371 | | (sign) | 8 | 1 | 12 | 2 | 1 | 24 |
| (sign) | 4 | 8 | 11 | 25 | 5 | 53 | | (sign) | — | 7 | 39 | 37 | 11 | 94 |
| (sign) | 31 | 94 | 79 | 30 | 16 | 250 | | (sign) | 32 | 12 | 43 | 14 | 4 | 105 |
| (sign) | 82 | 17 | 16 | 15 | 11 | 141 | | (sign) | 18 | 23 | 13 | 21 | 10 | 85 |
| (sign) | 4 | 69 | 26 | 13 | 5 | 117 | | (sign) | 4 | — | 2 | — | 1 | 7 |
| (sign) | 50 | 10 | 17 | 47 | 13 | 137 | | (sign) | 3 | — | 1 | 1 | — | 5 |
| (sign) | 21 | 7 | 19 | 22 | 3 | 72 | | (sign) | 5 | 330 | 14 | 46 | 7 | 402 |
| (sign) | 10 | 37 | 15 | 7 | 7 | 76 | | (sign) | 23 | 15 | 49 | 47 | 15 | 149 |
| (sign) | 33 | 10 | 17 | 4 | — | 64 | | (sign) | 221 | 30 | 19 | 20 | 7 | 297 |
| (sign) | 5 | 8 | 11 | — | — | 24 | | (sign) | 43 | 35 | 69 | 4 | 3 | 154 |
| (sign) | 6 | 21 | 8 | 7 | 1 | 43 | | (sign) | 35 | 5 | 43 | 27 | 9 | 119 |
| (sign) | 7 | — | 12 | 5 | — | 24 | | (sign) | 28 | 34 | 24 | 59 | 16 | 161 |

| | I | F | S | P | OP | T |
|---|---|---|---|---|---|---|
| (sign) | 37 | 96 | 27 | 40 | 11 | 211 |
| (sign) | 30 | — | — | — | 1 | 31 |
| (sign) | 68 | 21 | 85 | 25 | 27 | 226 |
| (sign) | 22 | 57 | 16 | 9 | 4 | 108 |
| (sign) | — | 2 | 12 | 19 | 3 | 36 |
| (sign) | — | 2 | 3 | 1 | — | 6 |
| (sign) | 28 | 3 | 14 | 2 | 1 | 48 |
| (sign) | 18 | 1 | 19 | 4 | 3 | 45 |
| (sign) | 7 | 129 | 23 | 24 | 8 | 191 |
| (sign) | 21 | 12 | 119 | 56 | 18 | 226 |
| (sign) | 37 | 38 | 45 | 33 | 9 | 162 |
| (sign) | 2 | 6 | 28 | 12 | 6 | 54 |
| (sign) | 13 | 1 | 8 | 3 | — | 25 |
| (sign) | 14 | 186 | 35 | 55 | 20 | 310 |
| (sign) | 19 | 1 | 13 | 1 | 4 | 38 |
| (sign) | 42 | 154 | 84 | 47 | 11 | 338 |
| (sign) | 50 | 48 | 146 | 35 | 16 | 295 |
| (sign) | 131 | 73 | 11 | 15 | 2 | 232 |
| (sign) | 3 | 1 | 2 | — | 1 | 7 |
| (sign) | — | 2 | 7 | 1 | — | 10 |
| (sign) | — | 5 | 1 | — | — | 6 |

| | I | F | S | P | OP | T |
|---|---|---|---|---|---|---|
| (sign) | 42 | 6 | 53 | 13 | 14 | 128 |
| (sign) | — | 8 | 5 | — | — | 13 |
| (sign) | 34 | 4 | 19 | 8 | 5 | 70 |
| (sign) | 89 | 73 | 59 | 26 | 15 | 262 |
| (sign) | 61 | 3 | 34 | 6 | 6 | 110 |
| (sign) | 17 | 8 | 35 | 11 | 3 | 74 |
| (sign) | 8 | 3 | 10 | 6 | — | 27 |
| (sign) | 26 | 94 | 44 | 36 | 11 | 211 |
| (sign) | — | 10 | 8 | 3 | 1 | 22 |
| (sign) | 101 | 30 | 59 | 18 | 11 | 219 |
| (sign) | 26 | 61 | 16 | 8 | 2 | 113 |
| (sign) | 43 | 12 | 49 | 23 | 5 | 132 |
| (sign) | 59 | 4 | 18 | 4 | 6 | 91 |
| (sign) | 1 | 2 | 2 | 2 | — | 7 |
| (sign) | — | — | 7 | — | — | 7 |
| (sign) | 9 | — | — | — | — | 9 |

|  | I | F | S | P | OP | T |
|---|---|---|---|---|---|---|
|  | 2523 | 2519 | 2248 | 1351 | 519 | 9160 |
| Rem. 15 signs | 6 | 10 | 9 | 4 | — | 29 |
| Gr. tot. | 2529 | 2529 | 2257 | 1355 | 519 | 9189 |

# TABLE II

## (FREQUENCIES OF MINOAN SIGNS)

*Linear script B*                        *2529 complete words*

| O | | T | I | F | DP | O | | T | I | F | DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 1 | | 402 | 5 | 330 | 67 | 17 | | 171 | 65 | 27 | 79 |
| 2 | | 371 | 338 | 16 | 17 | 18 | | 162 | 37 | 38 | 87 |
| 3 | | 338 | 42 | 154 | 142 | 19 | | 161 | 28 | 34 | 99 |
| 4 | | 327 | 8 | 176 | 143 | 20 | | 154 | 43 | 35 | 76 |
| 5 | | 310 | 14 | 186 | 110 | 21 | | 153 | 14 | 46 | 93 |
| 6 | | 297 | 221 | 30 | 46 | 22 | | 149 | 23 | 15 | 111 |
| 7 | | 295 | 48 | 152 | 95 | 23 | | 144 | 74 | 9 | 61 |
| 7 a | | 295 | 50 | 48 | 197 | 24 | | 141 | 82 | 17 | 42 |
| 8 | | 282 | 54 | 62 | 166 | 25 | | 138 | 51 | 13 | 74 |
| 9 | | 262 | 89 | 73 | 100 | 26 | | 137 | 50 | 10 | 77 |
| 10 | | 250 | 31 | 94 | 125 | 27 | | 132 | 43 | 12 | 77 |
| 11 | | 241 | 32 | 35 | 174 | 28 | | 128 | 42 | 6 | 80 |
| 12 | | 232 | 131 | 73 | 28 | 29 | | 122 | 24 | 36 | 62 |
| 13 | | 226 | 68 | 21 | 137 | 30 | | 119 | 35 | 5 | 79 |
| 13 a | | 226 | 21 | 12 | 193 | 31 | | 117 | 4 | 69 | 44 |
| 14 | | 219 | 101 | 30 | 88 | 32 | | 113 | 26 | 61 | 26 |
| 15 | | 211 | 37 | 96 | 78 | 33 | | 110 | 61 | 3 | 46 |
| 15 a | | 211 | 26 | 94 | 91 | 34 | | 108 | 22 | 57 | 29 |
| 16 | | 191 | 7 | 129 | 55 | 35 | | 105 | 22 | 12 | 61 |

| O | | T | I | F | DP | O | | T | I | F | DP |
|---|---|---|---|---|---|---|---|---|---|---|---|
| 36 | (sign) | 94 | — | 7 | 87 | 52 | (sign) | 36 | — | 2 | 34 |
| 37 | (sign) | 93 | 24 | 5 | 64 | 53 | (sign) | 31 | 30 | — | 1 |
| 38 | (sign) | 91 | 59 | 4 | 28 | 54 | (sign) | 30 | 14 | 8 | 8 |
| 39 | (sign) | 85 | 18 | 23 | 44 | 55 | (sign) | 27 | 8 | 3 | 16 |
| 40 | (sign) | 76 | 10 | 37 | 29 | 56 | (sign) | 25 | 13 | 1 | 11 |
| 41 | (sign) | 74 | 17 | 8 | 49 | 57 | (sign) | 24 | 5 | 8 | 11 |
| 42 | (sign) | 72 | 21 | 7 | 44 | 57 a | (sign) | 24 | 7 | — | 17 |
| 43 | (sign) | 70 | 34 | 4 | 32 | 57 b | (sign) | 24 | 8 | 1 | 15 |
| 44 | (sign) | 69 | 38 | 5 | 26 | 58 | (sign) | 22 | — | 10 | 12 |
| 45 | (sign) | 64 | 33 | 10 | 21 | 59 | (sign) | 13 | 7 | — | 6 |
| 46 | (sign) | 54 | 2 | 6 | 46 | 59 a | (sign) | 13 | — | 8 | 5 |
| 47 | (sign) | 53 | 4 | 8 | 41 | 60 | (sign) | 10 | — | 2 | 8 |
| 48 | (sign) | 48 | 28 | 3 | 17 | | | 9098 | 2502 | 2509 | 4087 |
| 49 | (sign) | 45 | 18 | 1 | 26 | Rem. 24 signs | | 91 | 27 | 20 | 44 |
| 50 | (sign) | 43 | 6 | 21 | 16 | | | | | | |
| 51 | (sign) | 38 | 19 | 1 | 18 | Gr. tot. | | 9189 | 2529 | 2529 | 4131 |

Table II indicates:

1) the order (O) which each sign occupies according to the total (T) of its frequency;

2) the total (T) of its frequency;

3) how many times the sign occurs as initial (I), final (F) and in different other positions (DP), e. g. second, etc.

This table contains 66 signs, each of which occurs in total at least 10 times (in the complete words). The total frequency of all the remaining 24 signs, each of which occurs less than 10 times in total, is represented by 91 on the grand total of 9189 signs, as follows: initial 27, final 20, different other positions 44.

CONST. D. KTISTOPOULOS

*Athens*