

| | A | C | G | T | Sum |
|-----|------|------|------|------|-------|
| A | 514 | 394 | 972 | 228 | 2108 |
| C | 3300 | 1255 | 2018 | 596 | 7169 |
| G | 976 | 808 | 1355 | 271 | 3410 |
| T | 948 | 646 | 1455 | 262 | 3311 |
| Sum | 5738 | 3103 | 5800 | 1357 | 15998 |

| | A | C | G | T | Sum |
|-----|----|----|-----|----|-----|
| A | 8 | 7 | 20 | 5 | 40 |
| C | 54 | 35 | 45 | 6 | 140 |
| G | 15 | 11 | 38 | 6 | 70 |
| T | 21 | 17 | 27 | 4 | 69 |
| Sum | 98 | 70 | 130 | 21 | 319 |

| | A | C | G | T | Sum |
|-----|----|----|----|---|-----|
| A | 2 | 2 | 6 | 1 | 11 |
| C | 45 | 6 | 29 | 1 | 81 |
| G | 7 | 6 | 18 | 2 | 33 |
| T | 8 | 11 | 22 | 2 | 43 |
| Sum | 62 | 25 | 75 | 6 | 168 |

| | A | C | G | T | Sum |
|-----|------|------|------|------|-------|
| A | 513 | 382 | 990 | 227 | 2112 |
| C | 3278 | 1269 | 2031 | 581 | 7159 |
| G | 976 | 827 | 1352 | 271 | 3426 |
| T | 957 | 651 | 1450 | 253 | 3311 |
| Sum | 5724 | 3129 | 5823 | 1332 | 16008 |

| | A | C | G | T | Sum |
|-----|-----|----|-----|----|-----|
| A | 11 | 8 | 19 | 4 | 42 |
| C | 67 | 38 | 42 | 10 | 157 |
| G | 23 | 28 | 35 | 8 | 94 |
| T | 23 | 18 | 35 | 6 | 82 |
| Sum | 124 | 92 | 131 | 28 | 375 |

| | A | C | G | T | Sum |
|-----|----|----|----|---|-----|
| A | 1 | 2 | 10 | 2 | 15 |
| C | 19 | 11 | 17 | 4 | 51 |
| G | 9 | 6 | 12 | 2 | 29 |
| T | 4 | 5 | 11 | 1 | 21 |
| Sum | 33 | 24 | 50 | 9 | 116 |