**Mean values**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **Vowel and keyword** | **Formant** | **Frequency (Hz)** | **Amplitude  (dB re F1 of /ɔ/)** | **Duration (sec)** |
|  |  |  |  |  |
| /i/ heed | 1 | 285 | - 2 | .293 |
| 2 | 2373 | -33 |
| 3 | 3088 | -37 |
|  |  |  |  |  |
| /ɩ/ hid | 1 | 356 | +5 | .139 |
| 2 | 2098 | -19 |
| 3 | 2696 | -26 |
|  |  |  |  |  |
| /ɛ/ head | 1 | 569 | - 2 | .170 |
| 2 | 1965 | -16 |
| 3 | 2636 | -24 |
|  |  |  |  |  |
| /æ/ had | 1 | 748 | - 6 | .210 |
| 2 | 1746 | -11 |
| 3 | 2460 | -24 |
|  |  |  |  |  |
| /ɑ/ hard | 1 | 677 | - 4 | .335 |
| 2 | 1083 | -10 |
| 3 | 2540 | -35 |
|  |  |  |  |  |
| /ɒ/ hod | 1 | 599 | 0 | .178 |
| 2 | 891 | - 6 |
| 3 | 2605 | -35 |
|  |  |  |  |  |
| /ɔ/ haw'd | 1 | 449 | 0 | .330 |
| 2 | 737 | -10 |
| 3 | 2635 | -42 |
|  |  |  |  |  |
| /ɷ/ hood | 1 | 376 | + 4 | .142 |
| 2 | 950 | -10 |
| 3 | 2440 | -36 |
| /u/ who'd | 1 | 309 | +2 | .294 |
| 2 | 939 | -22 |
| 3 | 2320 | -41 |
|  |  |  |  |  |
| /ʌ/ Hud | 1 | 722 | - 2 | .148 |
| 2 | 1236 | -7 |
| 3 | 2537 | -30 |
| /ɜ/ heard | 1 | 581 | - 2 | .309 |
| 2 | 1381 | -15 |
| 3 | 2436 | -31 |