## Consonant phonemes

Bold face characters show the phonemes in the standard orthography. IPA symbols in square brackets show the principal allophone(s) of each phoneme.

|  | Bilabial | Laminodental | A picoalveolar | A picopostalveolar | Laminoal veopalatal | Dorso-velar |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Voiceless, aspirated stop | $\begin{aligned} & \mathbf{p , p h} \mathbf{p h}^{1} \\ & {\left[\mathrm{p}^{\mathrm{h}}\right][\Phi]} \end{aligned}$ | th [ $\mathrm{t}^{\mathrm{h}}$ ] | t [ $\left.\mathrm{t}^{\mathrm{h}}\right]$ |  | ch [ $\mathrm{c}^{\mathrm{h}}$ ] | k [ $\left.\mathrm{k}^{\mathrm{h}}\right]$ |
| Voiced stop | b [b] | dh [d] | d [d] |  | j [ 7 ] | $\mathbf{g}[\mathrm{g}][\mathrm{x}]$ |
| Nasal | m [m] | nh [n] | n [n] |  | ny [n] | ng [ y$]$ |
| Pre-stopped nasal | bm [ $\left.{ }^{\text {b }} \mathrm{m}\right]$ | dnh [ ${ }^{\text {d }}$ ] $]$ | dn [ $\left.{ }^{\text {d }} \mathrm{n}\right]$ |  | jny ['n] | gng [ ${ }^{9} \mathrm{y}$ ] |
| Lateral |  | Ih [1] | 1 [1] |  | Iy [K] |  |
| Trill |  |  | rr [r] [r] |  |  |  |
| Approximant | w [w] |  |  | $\mathbf{r}[\mathrm{T}]$ | y [j] | gh [u] [у] |

Vowel phonemes

|  | Front | Central | Back |
| :--- | :--- | :--- | :--- |
| High | $\mathbf{i}[\mathrm{i}][\mathrm{I}]$ |  | $\mathbf{u}[\mathrm{u}][\vartheta]$ |
| Mid | $\mathbf{e}[\varepsilon][\varepsilon]$ |  | $\mathbf{0}[\partial]$ |
| Low |  | $\mathbf{a}[\mathrm{a}][ə][\Lambda]$ |  |

${ }^{1}$ The phones $\left[\mathrm{p}^{\mathrm{h}}\right]$ and $[\Phi]$ are in complementary distribution. The former occurs following a nasal ([amp ${ }^{\mathrm{h}}$ 'ar] 'food'), and is written $\mathbf{p}$ (i.e. ampay, 'food'). The later occurs in other contexts: between oral sonorants as in [uф'adar] 'cotton tree', and (surface) word-finally as in [i $\Phi$ ] 'liver'). This allophone is written ph (i.e. uphadharr 'cotton tree' and iph 'liver'). This allophonic pattern is obligatory and exceptionless, with the exception of the word aphichar 'dollar bird' which has been heard as both [aфicaf] and [ap ${ }^{\text {hica.f]. }}$

