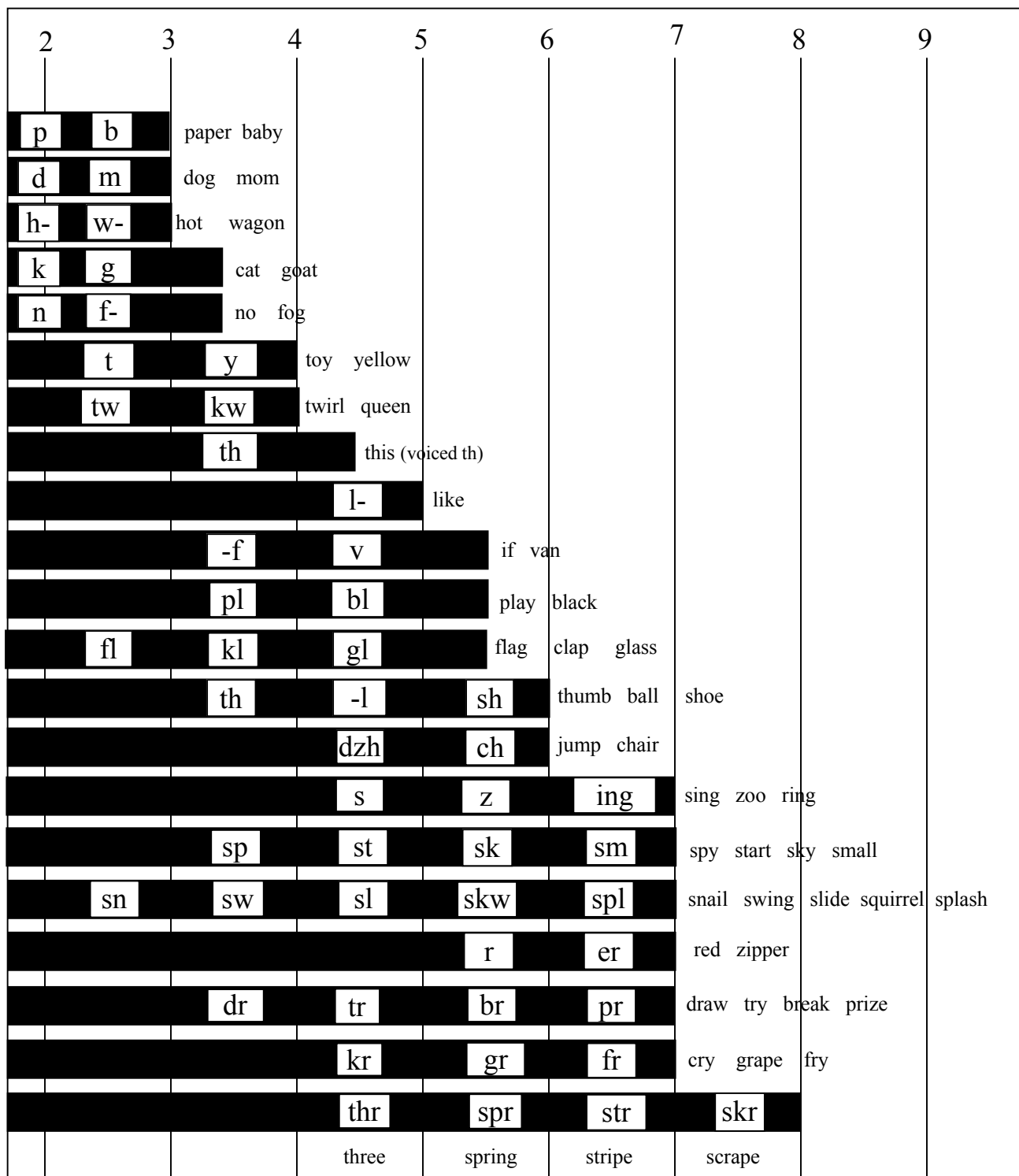


## Iowa-Nebraska Articulation Norms for Females

The solid bar below stops at the recommended ages of acquisition for phonemes and clusters, based generally on the age at which 90% of the children correctly produced the sound.

### Age Level for FEMALES



**Note regarding phoneme positions: h- refers to prevocalic positions**

**-h refers to post vocalic positions**

**unless indicated, all other representations refer to pre and post vocalic positions**

Smit, Hand, Freilinger, Bernthal, and Bird (1990), Journal of Speech and Hearing Disorders, 55, 779-798