

Sound System Disorder Missouri Designated Normative Data

| <i>Phoneme</i> | <i>Chronological Age</i> |
|----------------|--------------------------|
| /m/ | 3:0 |
| /n/ | 3:6 |
| /ŋ/ (ng) | 7:0 |
| /h/ | 3:0 |
| /w/ | 3:0 |
| /j/ (y) | 5:0 |
| /p/ | 3:0 |
| /b/ | 3:0 |
| /t/ | 4:0 |
| /d/ | 3:6 |
| /k/ | 3:6 |
| /g/ | 4:0 |
| /f-/ | 3:6 |

| <i>Phoneme</i> | <i>Chronological Age</i> |
|----------------|--------------------------|
| /-f/ | 5:6 |
| /v/ | 5:6 |
| /θ/ (th) | 8:0 |
| /ð/ (th) | 7:0 |
| /s/ | 7:0 |
| /z/ | 7:0 |
| /ʃ/ (sh)/ | 7:0 |
| /tʃ/ (ch) | 7:0 |
| /dʒ/ (j) | 7:0 |
| /ʒ/ (zh) | 8:0 |
| /l-/ | 6:0 |
| /-l/ | 7:0 |
| /r/ | 8:0 |

| <i>Word initial clusters</i> | <i>Chronological Age</i> |
|------------------------------|--------------------------|
| /tw kw/ | 5:6 |
| /sp st sk/ | 7:0 |
| /sm sn/ | 7:0 |
| /sw/ | 7:0 |
| /sl/ | 7:0 |
| /pl bl kl gl fl/ | 6:0 |
| /pr br tr dr kr gr fr/ | 8:0 |
| /θr/ | 9:0 |
| /skw/ | 7:0 |
| /spl/ | 7:0 |
| /spr str skr/ | 7:0 |

Normative data to be used by agencies in determining eligibility for Sound System Disorder as described in the Missouri State Plan for Special Education 2007, Part B, page 27. Norms are based on the Nebraska Replication of Iowa Norms (Journal of Speech and Hearing Disorders, Volume 55, 779-798, November 1990, Table 7, page795), adapted to provide a common age norm for both females and males.

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