



INDIANA UNIVERSITY BLOOMINGTON

Gierut / Learnability Project



The Learnability Project was founded in 1985 by Judith A. Gierut, Professor Emerita of Speech and Hearing Sciences, Indiana University. Through funding from the National Institutes of Health, the project served as a test site in evaluation of the efficacy of clinical treatment for preschool children with functional (nonorganic) phonological disorders. Children who enrolled contributed longitudinal descriptive phonological samples for linguistic analysis. They also received clinical treatment, designed as single-subject experiments, to establish the optimal teaching conditions to promote phonological learning. Experimental studies were based on the triangulation of theoretical models of linguistics, psycholinguistics, and speech-language pathology, with the aim of bridging theory with application and science with best practices. The Gierut / Learnability Project collections accord with the data-sharing plan of the National Institutes of Health and are intended for broad use by scientists, clinicians, and students interested in language and learning.

Content Statement

This document was retrieved from the DATA collection of the Gierut / Learnability Project archived in IUScholarWorks <https://scholarworks.iu.edu/dspace/handle/2022/20061>. By downloading and/or using the content herein, the user agrees to the Creative Commons copyright license CC BY-NC-ND. The copyright license permits the user to access and share the Gierut / Learnability Project collections, with appropriate acknowledgement and credit to the creators/authors. The copyright license denies the user the right to make changes to the collections or develop the collections commercially. The terms of the copyright license deed may be found at <http://creativecommons.org/licenses/by-nc-nd/4.0/> and the legal code at <http://creativecommons.org/licenses/by-nc-nd/4.0/legalcode>.

| COLUMN HEADING | DESCRIPTION |
|------------------------|---|
| Participant ID | Re-randomized arbitrary ID number assigned to participant to ensure anonymity |
| Treated Sound(s) | Treated Sound(s) |
| Sounds Monitored | Determined from phonological analysis; includes but not limited to phonemes excluded from inventory |
| Experimental Design | MBL, ATD, or MBL multiple probe |
| Imitation Ssns | Number of sessions in imitation phase of treatment |
| Spontaneous Ssns | Number of sessions in spontaneous phase of treatment |
| Best Ssns (ATD only) | Number of sessions in 'Best' condition of treatment (ATD) |
| Total Ssns | Total number of treatment sessions |
| Lexicality Trt Stimuli | Treated sound in real or nonwords |
| Minimal Pairs | Treated sound in minimal pairs |

| Participant ID | Treated Sound(s) | Sounds Monitored | Experimental Design | Imitation Ssns | Spontaneous Ssns | Best Ssns (ATD only) | Total Ssns | Lexicality Trt Stimuli | Minimal Pairs |
|----------------|---------------------|---|---------------------|----------------|------------------|----------------------|------------|------------------------|---------------|
| 1007 | θ | η t d v θ ð s z ʃ ʈ ɖ ʎ | MBL | 7 | 12 | | 19 | NW | No |
| 1042 | θ r | t θ ð z ʃ ʈ ɖ ʎ r | ATD | 3 | 4 | 3 | 10 | RW | No |
| 1049 | ʈ | η p t k g v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 6 | | 13 | RW | No |
| 1111 | ʃ | η θ ð ʃ ʈ ɖ ʎ r j | MBL | 7 | 4 | | 11 | RW | No |
| 1274 | r | v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 12 | | 19 | RW | No |
| 1325 | f-s-θ | f θ s z l r | MBL | 4 | 8 | | 12 | NW | Yes |
| 1339 | f | t f v θ ð s z ʃ l | MBL | 2 | 3 | | 5 | RW | No |
| 1345 | ð l | t f v θ ð s z ʃ ʈ ɖ ʎ r | ATD | 3 | 3 | 3 | 9 | NW | No |
| 1388 | ɖ ʎ-d | η k g f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 6 | 5 | | 11 | Both | Yes |
| 1403 | k | k g θ ð ʃ ʈ ɖ ʎ r | MBL | 7 | 4 | | 11 | RW | No |
| 1602 | sk | f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 2 | 4 | | 6 | NW | No |
| 1662 | l | θ ð ʃ ʈ ɖ ʎ r j | MBL | 2 | 4 | | 6 | RW | No |
| 1664 | l-r | η k g f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 12 | | 19 | NW | Yes |
| 1670 | f-s-θ | η θ ð s z ʃ ʈ ɖ ʎ r | MBL | 6 | 12 | | 18 | NW | Yes |
| 1676 | l | η d k g f v θ ð s z ʃ ʈ ɖ ʎ r j | MBL | 2 | 3 | | 5 | RW | No |
| 1691 | spl | θ ð ʃ ʈ ɖ ʎ r | MBL Mult Prb | 2 | 4 | | 6 | NW | No |
| 1711 | r | m n η d k g f v θ ð s z ʃ ʈ ɖ ʎ r w | MBL | 7 | 10 | | 17 | RW | No |
| 1713 | bl | η k g f v θ ð ʃ ʈ ɖ ʎ r j | MBL | 6 | 3 | | 9 | NW | No |
| 1729 | f ʈ | f v θ ð s z ʃ ʈ ɖ ʎ r | ATD | 4 | 4 | 3 | 11 | NW | No |
| 1768 | l-w | η t k g θ ð ʃ l r | MBL | 7 | 12 | | 19 | RW | Yes |
| 1776 | s f | f v θ ð s z ʃ ʈ ɖ ʎ r | ATD | 7 | 12 | 3 | 22 | RW | No |
| 1779 | kr bl vj sm | f v θ ð s z ʃ ʈ ɖ ʎ r | MBL Mult Prb | 8 | 15 | | 23 | NW | No |
| 1820 | Cor-V-Dor Sequences | f v θ ð ʃ ʈ ɖ ʎ r | MBL | 2 | 3 | | 5 | NW | No |
| 1827 | r | η k g f v θ ð ʃ ʈ ɖ ʎ r | MBL | 7 | 12 | | 19 | RW | No |
| 1831 | k | k g θ ð ʃ ʈ ɖ ʎ r | MBL | 3 | 3 | | 6 | RW | No |
| 1957 | v r | f v θ ð s z ʃ ʈ ɖ ʎ r | ATD | 3 | 3 | 3 | 9 | NW | No |
| 2019 | k g (mixed list) | k g v θ ð l | MBL | 7 | 12 | | 19 | RW | No |
| 2024 | s z ð θ | θ ð s z ʃ l r | MBL Mult Prb | 6 | 12 | | 18 | NW | No |
| 2057 | l-w | t d θ ð ʃ ʈ ɖ ʎ r | MBL | 2 | 3 | | 5 | Both | Yes |
| 2081 | s-g ʃ-h ɖ ʎ-θ | all target sounds | MBL Mult Prb | 17 | 10 | | 27 | RW | Yes |
| 2093 | s | η f v θ ð s z ʃ ʈ ɖ ʎ r j | MBL | 7 | 12 | | 19 | RW | No |
| 2145 | ʃ | v θ ð ʃ ʈ ɖ ʎ r | MBL | 5 | 3 | | 8 | RW | No |
| 2148 | ɖ ʎ | η f θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 6 | | 13 | NW | No |
| 2198 | ɖ ʎ | θ ð ʃ ʈ ɖ ʎ r | MBL | 7 | 7 | | 14 | NW | No |
| 2203 | s | f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 5 | 5 | | 10 | RW | No |
| 2204 | br | v θ ð ʃ ʈ ɖ ʎ r | MBL | 7 | 12 | | 19 | NW | No |
| 2216 | w-j | f v θ ð s z ʃ ʈ ɖ ʎ r w j | MBL | 7 | 12 | | 19 | NW | Yes |
| 2232 | v ʃ | v θ ð ʃ ʈ ɖ ʎ r j | ATD | 4 | 4 | 3 | 11 | RW | No |
| 2275 | l | n η p b t d k g f v θ ð s z ʃ ʈ ɖ ʎ r w | MBL | 6 | 12 | | 18 | RW | No |
| 2364 | fl s dr ð | k g θ ð s ʃ l r | MBL Mult Prb | 8 | 15 | | 23 | NW | No |
| 2406 | k | η k g θ ð s z ʃ ʈ ɖ ʎ r | MBL | 2 | 3 | | 5 | RW | No |
| 2426 | skw | η k g f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 12 | | 19 | NW | No |
| 2467 | r | b d g v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 10 | | 17 | RW | No |
| 2520 | r | η g v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 5 | | 12 | NW | No |
| 2539 | l | t d f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 2 | 4 | | 6 | RW | No |
| 2647 | r | θ ð ʃ ʈ ɖ ʎ r | MBL | 7 | 4 | | 11 | RW | No |
| 2664 | f | n t d k g f v θ ð s z ʃ ʈ ɖ ʎ r j | MBL | 7 | 12 | | 19 | RW | No |
| 2701 | θ-t k-m | m t k g f v θ ð l r | ATD | 3 | 7 | 3 | 13 | NW | Yes |
| 2762 | fr bl tr | s z ʃ ʈ ɖ ʎ r j | MBL Mult Prb | 5 | 7 | | 12 | NW | No |
| 2886 | l-r | η t f v θ ð s z ʃ ʈ ɖ ʎ r j | MBL | 7 | 12 | | 19 | NW | Yes |
| 2920 | s f θ ʃ | f v θ ð s z ʃ ʈ ɖ ʎ r | MBL Mult Prb | 6 | 13 | | 19 | NW | No |
| 2931 | g-d | η k g f v θ ð s z ʃ ʈ ɖ ʎ r | MBL | 7 | 5 | | 12 | Both | Yes |
| 2951 | r | η k g θ ð s z ʃ ʈ ɖ ʎ r j | MBL | 7 | 12 | | 19 | RW | No |

| Participant ID | Treated Sound(s) | Sounds Monitored | Experimental Design | Imitation Ssns | Spontaneous Ssns | Best Ssns (ATD only) | Total Ssns | Lexicality Trt Stimuli | Minimal Pairs |
|----------------|----------------------------|-------------------------------------|---------------------|----------------|------------------|----------------------|------------|------------------------|---------------|
| 3014 | l-r | ŋ k g f θ ð z ʃ ʈ ɖ ʒ l r h | MBL | 7 | 10 | | 17 | NW | Yes |
| 3066 | v sm θ fl | f v θ ð ʃ ʈ ɖ ʒ l r | MBL Mult Prb | 8 | 14 | | 22 | NW | No |
| 3079 | r | t θ s z ʃ ʈ ɖ ʒ l r | MBL | 5 | 12 | | 17 | NW | No |
| 3085 | g-f ɖ ʒ-l | k g f v θ ð s z ʃ ʈ ɖ ʒ l r j | ATD | 7 | 12 | 3 | 22 | NW | Yes |
| 3120 | s-t θ-ʃ | t θ ð s z ʃ ʈ ɖ ʒ r | ATD | 5 | 8 | 3 | 16 | NW | Yes |
| 3161 | ð-d s-ʃ | d θ ð s z ʃ r | ATD | 5 | 12 | 3 | 20 | NW | Yes |
| 3184 | r | ŋ k g θ ʃ ʈ ɖ ʒ l r | MBL | 4 | 4 | | 8 | RW | No |
| 3189 | ʃ-tʃ s-t g-d (coda) | all target sounds | MBL Mult Prb | 11 | 12 | | 23 | RW | Yes |
| 3214 | k | ŋ k g θ ð ʃ ʈ ɖ ʒ l r | MBL | 4 | 5 | | 9 | RW | No |
| 3224 | br | ŋ k g θ ð l r | MBL | 7 | 12 | | 19 | NW | No |
| 3265 | g-d | ŋ t k g f v θ ð ʃ ʈ ɖ ʒ l r | MBL | 6 | 3 | | 9 | Both | Yes |
| 3334 | ʃ-n g-s | n k g θ ð s z ʃ r | ATD | 7 | 12 | 3 | 22 | NW | Yes |
| 3371 | s | k g f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 3426 | p-z | p k g θ ð z ʃ ʈ ɖ ʒ r | MBL | 3 | 10 | | 13 | NW | Yes |
| 3447 | s | p t k f v θ ð s z ʃ ʈ ɖ ʒ l r w j | MBL | 7 | 10 | | 17 | RW | No |
| 3531 | l-r | k g f v s z θ ð ʃ ʈ ɖ ʒ l r j | MBL | 7 | 12 | | 19 | NW | Yes |
| 3572 | s (coda) | θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 3605 | l | ŋ k g θ ð ʃ ʈ ɖ ʒ l r | MBL | 7 | 7 | | 14 | RW | No |
| 3608 | θ l | k g θ ð z ʃ ʈ ɖ ʒ l r | ATD | 2 | 3 | 3 | 8 | Both | No |
| 3617 | m-b | m b k g θ ð ʃ ʈ ɖ ʒ r | MBL | 4 | 6 | | 10 | NW | Yes |
| 3623 | v-b l-j | all target sounds | MBL Mult Prb | 5 | 7 | | 12 | RW | Yes |
| 3694 | r | ŋ k g θ ð ʃ ʈ ɖ ʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 3696 | sn ʃ θ r | ŋ ð s z ʃ ʈ ɖ ʒ r | MBL Mult Prb | 6 | 10 | | 16 | NW | No |
| 3814 | k g (mixed list) | k g θ ð ɖ ʒ l r | MBL | 3 | 3 | | 6 | RW | No |
| 3851 | r | ŋ k g f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 4 | 12 | | 16 | RW | No |
| 3903 | ʃ | all target sounds | MBL | 5 | 12 | | 17 | NW | No |
| 3904 | ʃ | ŋ k g v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 6 | 11 | | 17 | RW | No |
| 3920 | k | k g f v θ ð ʃ ʈ ɖ ʒ r | MBL | 5 | 8 | | 13 | NW | No |
| 4052 | s | θ ð s z ʃ l | MBL | 7 | 5 | | 12 | NW | No |
| 4073 | l-w | ŋ p t k g f v θ ð s z ʃ ʈ ɖ ʒ l r j | MBL | 7 | 12 | | 19 | Both | Yes |
| 4097 | θ | ŋ k g f v θ ð s z ʃ ʈ ɖ ʒ l j | MBL | 3 | 3 | | 6 | RW | No |
| 4191 | fl | θ ð ʃ ʈ ɖ ʒ l r h | MBL | 3 | 3 | | 6 | NW | No |
| 4277 | f | all target sounds | MBL | 7 | 12 | | 19 | RW | No |
| 4306 | r | d v θ ð z ʃ ʈ ɖ ʒ l r | MBL | 3 | 5 | | 8 | RW | No |
| 4326 | l | θ ð ʃ ʈ ɖ ʒ l r | MBL | 3 | 4 | | 7 | RW | No |
| 4364 | ʃ s | v θ ð s z ʃ ʈ ɖ ʒ l r | ATD | 4 | 5 | 3 | 12 | RW | No |
| 4451 | r | f v θ ð ʃ ʈ ɖ ʒ r | MBL | 7 | 8 | | 15 | NW | No |
| 4524 | v-b ʃ-tʃ (coda) | all target sounds | MBL Mult Prb | 5 | 8 | | 13 | RW | Yes |
| 4542 | t-null (medial) ʃ-s (coda) | all target sounds | MBL Mult Prb | 8 | 9 | | 17 | RW | Yes |
| 4579 | r | ŋ p t k g v θ ð z ʃ ʈ ɖ ʒ l r | MBL | 4 | 5 | | 9 | RW | No |
| 4637 | spr | k g f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 4 | 12 | | 16 | NW | No |
| 4679 | st | v θ ð s z l r w | MBL | 7 | 8 | | 15 | NW | No |
| 4699 | l | ŋ f v θ ð s z ʃ ʈ ɖ ʒ l r w j h | MBL | 7 | 10 | | 17 | RW | No |
| 4746 | ʈ ʒ | ŋ t k g f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 4747 | kw | t d θ ð ʃ ʈ ɖ ʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 4789 | spl | θ ʃ ʈ ɖ ʒ r | MBL | 7 | 12 | | 19 | NW | No |
| 4844 | s | f v θ ð s z ʃ ʈ ɖ ʒ l r h | MBL | 7 | 12 | | 19 | RW | No |
| 4852 | ʃ-s-θ | v θ ð s z ʃ ʈ ɖ ʒ r | MBL | 6 | 12 | | 18 | NW | Yes |
| 4897 | k | ŋ k g v θ ð s z ʃ l r | MBL | 2 | 3 | | 5 | RW | No |
| 4966 | f | f v θ ð ʃ ʈ ɖ ʒ l r | MBL | 7 | 6 | | 13 | RW | No |
| 4987 | bl | f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL | 6 | 12 | | 18 | NW | No |
| 5185 | θ | θ ð ʃ ʈ ɖ ʒ r | MBL | 4 | 7 | | 11 | RW | No |
| 5189 | f z s ð | f v θ ð s z ʃ ʈ ɖ ʒ l r | MBL Mult Prb | 7 | 13 | | 20 | NW | No |

| Participant ID | Treated Sound(s) | Sounds Monitored | Experimental Design | Imitation Ssns | Spontaneous Ssns | Best Ssns (ATD only) | Total Ssns | Lexicality Trt Stimuli | Minimal Pairs |
|----------------|--------------------------|---------------------------------------|---------------------|----------------|------------------|----------------------|------------|------------------------|---------------|
| 5194 | s | ŋ k g θ s z ʃ | MBL | 4 | 8 | | 12 | RW | No |
| 5202 | s | all target sounds | MBL | 7 | 12 | | 19 | RW | No |
| 5244 | s | all target sounds | MBL | 6 | 6 | | 12 | RW | No |
| 5330 | sn fl sw kr | f v θ ð s z ʃ tʃ dʒ l r w | MBL Mult Prb | 8 | 13 | | 21 | NW | No |
| 5497 | f-s-θ | f v θ s z ʃ tʃ dʒ l r | MBL | 4 | 11 | | 15 | NW | Yes |
| 5506 | ʃ | t k g θ ð s z ʃ tʃ dʒ l r | MBL | 6 | 12 | | 18 | RW | No |
| 5556 | θ-f z-dʒ | ŋ k g θ ð z tʃ dʒ l r | ATD | 7 | 12 | 3 | 22 | NW | Yes |
| 5563 | f | ŋ k g f v θ ð ʃ tʃ dʒ l r | MBL | 2 | 3 | | 5 | RW | No |
| 5587 | θ | n ŋ k g v θ ð s ʃ tʃ dʒ l r | MBL | 3 | 5 | | 8 | RW | No |
| 5673 | f | all target sounds | MBL | 7 | 12 | | 19 | RW | No |
| 5696 | s-null l-null (coda) | ŋ k g θ ð z ʃ tʃ dʒ r w j h | MBL | 7 | 4 | | 11 | RW | Yes |
| 5710 | r | f v θ ð z ʃ tʃ dʒ l r | MBL | 5 | 11 | | 16 | RW | No |
| 5863 | g r | n ŋ d k g f v θ ð z tʃ dʒ r | ATD | 7 | 6 | 3 | 16 | RW | No |
| 5908 | tʃ-ʃ g-f | k g f v θ ð ʃ tʃ dʒ l r | ATD | 5 | 12 | 3 | 20 | NW | Yes |
| 5952 | r | ŋ k g v θ ð s z ʃ tʃ dʒ l r | MBL | 6 | 7 | | 13 | RW | No |
| 5991 | sp | p b t d k g f v θ ð s z ʃ tʃ dʒ l r j | MBL | 2 | 8 | | 10 | NW | No |
| 6068 | skr | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 6112 | n-f k-l | n k g f v θ ð l r | ATD | 7 | 12 | 1 | 20 | NW | Yes |
| 6200 | θ | θ ð ʃ tʃ dʒ l r | MBL | 4 | 4 | | 8 | NW | No |
| 6207 | θ | v θ ð ʃ tʃ dʒ r | MBL | 4 | 6 | | 10 | NW | No |
| 6231 | s | ŋ p t k g f v θ ð s z ʃ tʃ dʒ l r j | MBL | 3 | 9 | | 12 | RW | No |
| 6303 | s | f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 6344 | l | v θ ð s z ʃ tʃ dʒ l r | MBL | 4 | 6 | | 10 | RW | No |
| 6365 | θ | f θ ð s z ʃ tʃ dʒ l | MBL | 7 | 9 | | 16 | RW | No |
| 6380 | f z | f θ s z ʃ r | MBL Mult Prb | 4 | 6 | | 10 | NW | No |
| 6521 | r | ŋ k g f v θ ð ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 6559 | t-null (medial) ʃ-tʃ s-h | all target sounds | MBL Mult Prb | 11 | 11 | | 22 | RW | Yes |
| 6566 | kl | ŋ θ ð ʃ tʃ dʒ l r j | MBL | 7 | 12 | | 19 | NW | No |
| 6578 | f | k g f v θ ð s z r | MBL | 5 | 8 | | 13 | NW | No |
| 6600 | v r | ŋ v θ ð s z ʃ tʃ dʒ l r | ATD | 2 | 4 | 3 | 9 | NW | No |
| 6706 | l ʃ | p k g θ ð s z ʃ tʃ dʒ l r j | ATD | 7 | 5 | 3 | 15 | RW | No |
| 6774 | tw | θ ð s z ʃ tʃ dʒ l r j | MBL | 7 | 12 | | 19 | NW | No |
| 6881 | t-k (coda) | n ŋ t d k g f v θ ð s z ʃ tʃ dʒ l h | MBL | 7 | 12 | | 19 | NW | Yes |
| 6903 | ʃ tʃ | ŋ k g v s z ʃ tʃ dʒ l r w j | ATD | 7 | 9 | 3 | 19 | NW | No |
| 6924 | l-r | n ŋ t d f v θ ð s z ʃ tʃ dʒ l r | MBL | 6 | 8 | | 14 | NW | Yes |
| 6932 | skw | θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 6952 | g θ | ŋ k g v θ ð s z ʃ tʃ dʒ r | ATD | 2 | 3 | 3 | 8 | Both | No |
| 7022 | g l | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | ATD | 7 | 3 | 3 | 13 | RW | No |
| 7027 | θ f | f v θ s z r j | ATD | 6 | 12 | 3 | 21 | RW | No |
| 7055 | dʒ-d | ŋ t d k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | Both | Yes |
| 7056 | v-b | all target sounds | MBL Mult Prb | 4 | 0 | | 4 | RW | Yes |
| 7080 | r θ | f v θ ð ʃ tʃ dʒ l r | ATD | 2 | 7 | 2 | 11 | Both | No |
| 7151 | l | ŋ θ ð ʃ tʃ dʒ l r | MBL | 7 | 6 | | 13 | RW | No |
| 7167 | g | ŋ k g θ ð s z l j | MBL | 4 | 10 | | 14 | NW | No |
| 7187 | f | all target sounds | MBL | 5 | 4 | | 9 | RW | No |
| 7243 | bl | ŋ k g f v θ ð s z ʃ tʃ dʒ l r h | MBL | 6 | 7 | | 13 | NW | No |
| 7250 | v ʃ | ŋ k g v θ ð s z ʃ l r | ATD | 3 | 5 | 3 | 11 | RW | No |
| 7274 | f-s-θ | f v θ ð s z l r | MBL | 7 | 12 | | 19 | NW | Yes |
| 7284 | z r θ | θ ð z dʒ r | MBL Mult Prb | 6 | 10 | | 16 | NW | No |
| 7319 | ʃ tʃ | ŋ b t d k g f v θ ð s z ʃ tʃ dʒ l r j | ATD | 7 | 9 | 3 | 19 | NW | No |
| 7374 | f tʃ | n t d f v θ ð s z ʃ tʃ dʒ l | ATD | 3 | 3 | 2 | 8 | NW | No |
| 7414 | r | θ ð ʃ tʃ dʒ l r | MBL | 4 | 5 | | 9 | RW | No |
| 7482 | skr | t d k g v θ ð z ʃ tʃ dʒ r | MBL | 7 | 12 | | 19 | NW | No |

| Participant ID | Treated Sound(s) | Sounds Monitored | Experimental Design | Imitation Ssns | Spontaneous Ssns | Best Ssns (ATD only) | Total Ssns | Lexicality Trt Stimuli | Minimal Pairs |
|----------------|---------------------|---|---------------------|----------------|------------------|----------------------|------------|------------------------|---------------|
| 7521 | v-t θ-dʒ | t g f v θ ð s z ʃ tʃ dʒ l r | ATD | 7 | 9 | 3 | 19 | NW | Yes |
| 7585 | dʒ-d | p t k f v θ ð s z ʃ tʃ dʒ l r | MBL | 2 | 3 | | 5 | RW | Yes |
| 7603 | s | ŋ k g f θ ð s z ʃ tʃ dʒ r j | MBL | 6 | 6 | | 12 | RW | No |
| 7663 | l | ŋ p t k g v θ ð s ʃ tʃ l r | MBL | 2 | 3 | | 5 | RW | No |
| 7667 | ð l | k g θ ð z ʃ tʃ dʒ l r | ATD | 2 | 3 | 3 | 8 | NW | No |
| 7676 | r | f v θ ð ʃ tʃ dʒ l r | MBL | 7 | 6 | | 13 | RW | No |
| 7690 | f | f v θ ð s z ʃ tʃ dʒ l r j | MBL | 2 | 9 | | 11 | NW | No |
| 7710 | k | ŋ k g v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 11 | | 18 | RW | No |
| 7883 | θ ð ʃ | k g θ ð ʃ tʃ dʒ l r | MBL Mult Prb | 3 | 7 | | 10 | NW | No |
| 7921 | r | ŋ k g θ ð ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 7922 | pr | ŋ θ ð ʃ tʃ l r j | MBL | 7 | 8 | | 15 | NW | No |
| 7946 | r | n p t d f v θ ð z ʃ tʃ dʒ l r | MBL | 7 | 11 | | 18 | NW | No |
| 7947 | r | f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 7968 | kw | θ ð ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 7996 | fl | v θ ð ʃ tʃ dʒ l r | MBL | 3 | 7 | | 10 | NW | No |
| 8036 | spl | k g v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 8145 | s | v ð s z l r j | MBL | 5 | 8 | | 13 | NW | No |
| 8170 | s | ŋ θ ð s z l | MBL | 6 | 9 | | 15 | RW | No |
| 8172 | l | ŋ k g θ ð l r | MBL | 7 | 6 | | 13 | RW | No |
| 8198 | k dʒ | ŋ k g θ ð z ʃ tʃ dʒ l r j | ATD | 7 | 11 | | 18 | NW | No |
| 8220 | ʃ | ŋ k g v θ z ʃ tʃ dʒ l r | MBL | 2 | 4 | | 6 | RW | No |
| 8321 | Aff-V-Dor Sequences | f v θ ð ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | NW | No |
| 8341 | s | k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 3 | 3 | | 6 | RW | No |
| 8356 | k g (mixed list) | ŋ k g θ ð l | MBL | 7 | 8 | | 15 | RW | No |
| 8558 | t-s tʃ-m | m t θ ð s z ʃ tʃ dʒ l r | ATD | 6 | 12 | 3 | 21 | NW | Yes |
| 8600 | tʃ | f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 7 | | 14 | NW | No |
| 8605 | l θ | t f v θ ð s z ʃ tʃ dʒ l r h | ATD | 7 | 12 | 3 | 22 | Both | No |
| 8644 | n-k | n t d k f v θ ð s z ʃ tʃ dʒ l r | MBL | 4 | 12 | | 16 | NW | Yes |
| 8690 | s | f v θ ð s z ʃ tʃ dʒ r | MBL | 7 | 9 | | 16 | NW | No |
| 8707 | g s | n ŋ p t d k g f v θ ð s z ʃ tʃ dʒ r l w j h | ATD | 7 | 12 | 3 | 22 | RW | No |
| 8760 | θ | ŋ k g θ ð ʃ l j | MBL | 4 | 6 | | 10 | NW | No |
| 8765 | dʒ-d | ŋ p t k θ ð z ʃ tʃ dʒ l r | MBL | 7 | 5 | | 12 | NW | Yes |
| 8803 | d-n | n d k g f v θ ð ʃ tʃ dʒ l r | MBL | 4 | 11 | | 15 | NW | Yes |
| 8841 | l-w | f v θ ð s z ʃ tʃ dʒ l r | MBL | 2 | 4 | | 6 | NW | Yes |
| 8850 | f | n ŋ t d g f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 8947 | dʒ-h | θ ð s z dʒ l r h | MBL | 2 | 5 | | 7 | NW | Yes |
| 8963 | k g (mixed list) | k g θ ð ʃ tʃ dʒ l r | MBL | 2 | 3 | | 5 | RW | No |
| 9012 | s | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 5 | 5 | | 10 | RW | No |
| 9070 | l | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 4 | | 11 | RW | No |
| 9084 | sp | k g f v θ ð s z ʃ l r | MBL | 7 | 5 | | 12 | NW | No |
| 9166 | l-r | ŋ f v θ ð ʃ tʃ dʒ l r j | MBL | 7 | 12 | | 19 | NW | Yes |
| 9171 | s | f v θ ð s z ʃ r | MBL | 7 | 8 | | 15 | RW | No |
| 9193 | l | ŋ v θ ð ʃ tʃ dʒ l r | MBL | 3 | 3 | | 6 | RW | No |
| 9247 | θ g | ŋ k g v θ ð s z ʃ tʃ dʒ l r j h | ATD | 3 | 3 | 2 | 8 | Both | No |
| 9312 | r | ŋ k g θ ð tʃ dʒ l r | MBL | 7 | 12 | | 19 | RW | No |
| 9413 | l | ŋ k g θ ð l r | MBL | 2 | 3 | | 5 | RW | No |
| 9453 | s | n ŋ t d k g f v θ ð s z ʃ tʃ dʒ l r j | MBL | 7 | 12 | | 19 | RW | No |
| 9454 | f | k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 3 | 11 | | 14 | RW | No |
| 9482 | f | f v θ ð ʃ tʃ dʒ l r | MBL | 3 | 3 | | 6 | RW | No |
| 9488 | l v | ŋ v θ ð ʃ tʃ dʒ l r j | ATD | 5 | 4 | 3 | 12 | NW | No |
| 9569 | fl | θ ð s z l r | MBL | 7 | 5 | | 12 | NW | No |
| 9575 | ð-d tʃ-dʒ | d k g v θ ð s z ʃ tʃ dʒ l r | ATD | 7 | 12 | 3 | 22 | NW | Yes |
| 9576 | tw | θ ð ʃ tʃ dʒ l r | MBL | 7 | 6 | | 13 | NW | No |

| Participant ID | Treated Sound(s) | Sounds Monitored | Experimental Design | Imitation Ssns | Spontaneous Ssns | Best Ssns (ATD only) | Total Ssns | Lexicality Trt Stimuli | Minimal Pairs |
|----------------|------------------|-------------------------------|---------------------|----------------|------------------|----------------------|------------|------------------------|---------------|
| 9584 | l | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 3 | 3 | | 6 | RW | No |
| 9594 | bl | ŋ k g f v θ ð s z ʃ tʃ dʒ l r | MBL | 4 | 8 | | 12 | NW | No |
| 9641 | ʃ θ | f v θ ð s z ʃ l r | ATD | 4 | 12 | 3 | 19 | RW | No |
| 9687 | f | k g f v θ ð s z ʃ tʃ dʒ l r j | MBL | 7 | 9 | | 16 | NW | No |
| 9889 | s | all target sounds | MBL | 7 | 10 | | 17 | RW | No |
| 9947 | spr | θ ð s z ʃ tʃ dʒ l r | MBL | 7 | 7 | | 14 | NW | No |
| 9960 | r ð | f v θ ð ʃ l r | ATD | 3 | 3 | 3 | 9 | NW | No |