Group	Ri /ð'/ as [ð'] F1	Ri /ð'/ as [θ'] F2	Ri /ð'/ as [θ] F3	Ri /ð'/ as [f] F4	NRi /ð'/ as [ð'] F5	NRi /ð'/ as [θ'] F6	NRi /ð'/ as [θ] F7	NRi /ð'/ as [f] F8	Ri /θ'/ as [θ'] F9	Ri /θ'/ as [θ] F10	Ri /θ'/ as [θ] F11	Ri /θ'/ as [f] F12	NRi /θ'/as [θ'] F13	NRi /θ'/as [θ'] F14	NRi /θ'/ as [θ] F15	NRi /θ'/as [f] F16	[m] F17	[ʔm] F18	HVD F19	No HVD F20	[dʒ] for /dʒ/ with [z] F21	[dʒ] for /dʒ/ without [z] F22	[ʃ] for /dʒ/ with [z] F23	[ʃ] for /dʒ/ without [z] F24	[z] for /dʒ/ with [z] F25	[z] for /dʒ/ without [z] F26
Group 1				1		1		1			1		1	1				1		1					1	1
Group 2		1				1			1					1			1	1		1					1	1
Group 3	1				1				1				1				1	1		1			1	1	1	1
Group 4			1	1							1		1				1	1		1					1	1
Group 5																										

	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /θ'/ as [f]	NRI /d'/ as [θ']	NRI /d'/ as [θ']	NRI /θ'/ as [θ]	NRI /d'/ as [f]	RI /θ'/ as [θ']	RI /θ'/ as [θ']	RI /θ'/ as [θ]	RI /θ'/ as [f]	NRI /θ'/as [θ']	NRI /θ'/as [θ']	NRI /θ'/ as [θ]	NRI /θ'/as [f]	[m]	[rm-]	HVD	No HVD	[dʒ] for /dʒ/ with [ɹ]	[dʒ] for /dʒ/ without [ɹ]	[ʃ] for /dʒ/ with [ɹ]	[ʃ] for /dʒ/ without [ɹ]	[ʒ] for /dʒ/ with [ɹ]	[ʒ] for /dʒ/ without [ɹ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1		1		1				1						1		1					1	1
Group 2		1				1				1		1						1							1	1
Group 3	1				1				1								1		1	1			1	1	1	1
Group 4	1				1						1	1					1		1						1	1
Group 5																										

	RI /dˤ/ as [θˤ]	RI /dˤ/ as [θˤ]	RI /dˤ/ as [θ]	RI /θˤ/ as [f]	NRI /dˤ/ as [θˤ]	NRI /dˤ/ as [θˤ]	NRI /θˤ/ as [θ]	NRI /dˤ/ as [f]	RI /θˤ/ as [θˤ]	RI /θˤ/ as [θˤ]	RI /θˤ/ as [θ]	RI /θˤ/ as [f]	NRI /θˤ/ as [θˤ]	NRI /θˤ/ as [θˤ]	NRI /θˤ/ as [θ]	NRI /θˤ/ as [f]	[m]	[rm]	HVD	No HVD	[dʒ] for /dʒ/ with [ʒ]	[dʒ] for /dʒ/ without [ʒ]	[ʃ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʃ]	[ʒ] for /dʒ/ without [ʃ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1		1				1				1			1					1		1					1	1
Group 2		1				1				1				1			1		1						1	1
Group 3	1	1			1				1				1				1	1		1					1	1
Group 4				1	1						1		1				1	1							1	1
Group 5		1			1						1		1				1	1			1		1			

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1		1						1			1	1						1	1	1					1	1
Group 2		1				1				1		1						1	1	1					1	1
Group 3	1	1			1				1			1					1	1		1	1		1	1		1
Group 4				1	1						1	1					1	1		1	1					1
Group 5																										

	RI /ð'/ as [θ']	RI /ð'/ as [θ*]	RI /ð'/ as [0]	RI /θ'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ*]	NRI /ð'/ as [0]	NRI /ð'/ as [f]	RI /θ'/ as [ð']	RI /θ'/ as [θ*]	RI /θ'/ as [0]	RI /θ'/ as [f]	NRI /θ'/as [ð']	NRI /θ'/as [θ*]	NRI /θ'/ as [0]	NRI /θ'/as [f]	[m]	[ɾm-]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1				1				1						1		1			1			
Group 2		1				1				1								1		1					1	1
Group 3	1							1	1			1						1					1	1		
Group 4				1	1						1	1						1		1					1	1
Group 5																										

	RI /d'/ as [ð']	RI /d'/ as [θ']	RI /d'/ as [0]	RI /θ'/ as [f]	NRI /d'/ as [ð']	NRI /d'/ as [θ']	NRI /θ'/ as [0]	NRI /d'/ as [f]	RI /θ'/ as [ð']	RI /θ'/ as [θ']	RI /θ'/ as [0]	RI /θ'/ as [f]	NRI /θ'/ as [ð']	NRI /θ'/ as [θ']	NRI /θ'/ as [0]	NRI /θ'/ as [f]	[m]	[ɾm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1				1				1						1		1					1	1
Group 2		1				1				1				1				1		1			1	1		
Group 3	1				1				1				1					1		1			1	1		
Group 4			1	1							1		1					1		1					1	1
Group 5																										

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð/ as [θ]	RI /ð/ as [θ]	RI /ð/ as [θ]	RI /ð/ as [f]	NRI /ð/ as [θ]	NRI /ð/ as [θ]	NRI /ð/ as [θ]	NRI /ð/ as [f]	RI /θ/ as [θ]	RI /θ/ as [θ]	RI /θ/ as [θ]	RI /θ/ as [f]	NRI /θ/ as [θ]	NRI /θ/ as [θ]	NRI /θ/ as [θ]	NRI /θ/ as [f]	[m]	[rm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [r]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
Group 1				1		1		1			1		1					1		1					1	1
Group 2		1			1						1		1					1		1					1	1
Group 3		1				1					1		1					1		1					1	1
Group 4																										
Group 5																										

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð°/ as [θ°]	RI /ð°/ as [θ°]	RI /ð°/ as [θ]	RI /θ°/ as [f]	NRI /ð°/ as [θ°]	NRI /ð°/ as [θ°]	NRI /ð°/ as [θ]	NRI /ð°/ as [f]	RI /θ°/ as [θ°]	RI /ð°/ as [θ°]	RI /ð°/ as [θ]	RI /ð°/ as [f]	NRI /θ°/as [θ°]	NRI /θ°/as [θ°]	NRI /θ°/ as [θ]	NRI /θ°/as [f]	[m]	[m̩]	HVD	No HVD	[dʒ] for /dʒ/ with [ʒ]	[dʒ] for /dʒ/ without [ʒ]	[ʃ] for /dʒ/ with [ʒ]	[ʃ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]
Group 1				1				1				1						1		1	1					1
Group 2		1				1				1								1		1	1					1
Group 3	1				1				1									1								1
Group 4				1	1						1							1		1	1					
Group 5																										

	RI /d'/ as [θ']	RI /d'/ as [θ']	RI /d'/ as [θ]	RI /θ'/ as [f]	NRI /d'/ as [θ']	NRI /d'/ as [θ']	NRI /θ'/ as [θ]	NRI /d'/ as [f]	RI /θ'/ as [θ']	RI /θ'/ as [f]	RI /θ'/ as [θ]	RI /θ'/ as [f]	NRI /θ'/as [θ']	NRI /θ'/as [θ']	NRI /θ'/ as [θ]	NRI /θ'/as [f]	[m]	[ɾm]	HVD	No HVD	/dʒ/ for /dʒ/ with [ʒ]	/dʒ/ for /dʒ/ without [ʒ]	[ʃ] for /dʒ/ with [ʒ]	[ʃ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1	1							1		1				1	1	1					1	1
Group 2	1				1					1				1			1	1	1						1	1
Group 3	1								1				1				1	1	1				1	1		1
Group 4			1		1						1		1				1	1	1		1					
Group 5																										

	RI /dˠ/ as [ðˠ]	RI /dˠ/ as [ðˠ]	RI /dˠ/ as [θ]	RI /ðˠ/ as [f]	NRI /dˠ/ as [ðˠ]	NRI /dˠ/ as [ðˠ]	NRI /ðˠ/ as [θ]	NRI /ðˠ/ as [f]	RI /ðˠ/ as [ðˠ]	RI /ðˠ/ as [ðˠ]	RI /ðˠ/ as [θ]	RI /ðˠ/ as [f]	NRI /ðˠ/ as [ðˠ]	NRI /ðˠ/ as [ðˠ]	NRI /ðˠ/ as [θ]	NRI /ðˠ/ as [f]	[m]	[rim]	HVD	No HVD	/dʒ/ for /dʒ/ with [z]	/dʒ/ for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1		1		1			1	1	1					1		1					1	1
Group 2		1				1				1				1				1							1	1
Group 3	1				1				1				1				1		1	1	1		1	1		1
Group 4				1	1					1			1				1		1	1	1					1
Group 5																										

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	Ri /d'/ as [ð']	Ri /d'/ as [θ']	Ri /d'/ as [θ]	Ri /ð'/ as [f]	NRi /d'/ as [ð']	NRi /d'/ as [θ']	NRi /ð'/ as [θ]	NRi /d'/ as [f]	Ri /ð'/ as [ð']	Ri /ð'/ as [θ']	Ri /ð'/ as [θ]	Ri /ð'/ as [f]	NRi /ð'/as [ð']	NRi /ð'/as [θ']	NRi /ð'/ as [θ]	NRi /ð'/as [f]	[m]	[rm-]	HVD	No HVD	[dʒ] for /dʒ/ with [ʒ]	[dʒ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]
Group 1				1		1		1				1		1				1			1					1
Group 2		1				1				1				1			1		1		1					1
Group 3	1				1				1					1			1		1	1	1			1	1	
Group 4				1	1						1			1			1		1	1	1					1
Group 5																										

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1		1		1				1		1			1								1	1
Group 2		1				1				1				1											1	1
Group 3	1				1				1				1				1		1				1	1		
Group 4	1				1						1		1				1		1				1	1		
Group 5																										

	RI /d'/ as [t']	RI /d'/ as [t']	RI /d'/ as [0]	RI /0'/ as [f]	NRI /d'/ as [0']	NRI /d'/ as [0']	NRI /0'/ as [0]	NRI /d'/ as [f]	RI /0'/ as [0']	RI /0'/ as [0']	RI /0'/ as [0]	RI /0'/ as [f]	NRI /0'/as [0']	NRI /0'/as [0']	NRI /0'/ as [0]	NRI /0'/as [f]	[m]	[ɾm]	HVD	No HVD	[dʒ] for /dʒ/ with [ʒ]	[dʒ] for /dʒ/ without [ʒ]	[ʃ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1				1				1						1		1					1	1
Group 2	1					1				1				1			1	1							1	1
Group 3	1								1				1				1		1						1	1
Group 4	1				1				1				1				1	1							1	1
Group 5																										

	RI /ð'/ as [ð']	RI /ð'/ as [θ']	RI /ð'/ as [0]	RI /θ'/ as [f]	NRI /ð'/ as [ð']	NRI /ð'/ as [θ']	NRI /ð'/ as [0]	NRI /ð'/ as [f]	RI /θ'/ as [θ']	RI /ð'/ as [ð']	RI /θ'/ as [0]	RI /θ'/ as [f]	NRI /θ'/ as [θ']	NRI /θ'/ as [ð']	NRI /θ'/ as [0]	NRI /θ'/ as [f]	[m]	[ɹm]	HVD	No HVD	[dʒ] for /dʒ/ with [ɹ]	[dʒ] for /dʒ/ without [ɹ]	[ʃ] for /dʒ/ with [ɹ]	[ʃ] for /dʒ/ without [ɹ]	[ʒ] for /dʒ/ with [ɹ]	[ʒ] for /dʒ/ without [ɹ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1				1				1	1				1	1		1	1	1				
Group 2		1				1								1										1	1	
Group 3	1				1						1		1				1	1			1					1
Group 4																										
Group 5																										

	Ri /dˀ/ as [ðˀ]	Ri /dˀ/ as [θˀ]	Ri /dˀ/ as [0]	Ri /ðˀ/ as [f]	NRI /dˀ/ as [ðˀ]	NRI /dˀ/ as [θˀ]	NRI /ðˀ/ as [0]	NRI /dˀ/ as [f]	Ri /ðˀ/ as [ðˀ]	Ri /ðˀ/ as [θˀ]	Ri /ðˀ/ as [0]	Ri /ðˀ/ as [f]	NRI /ðˀ/as [ðˀ]	NRI /ðˀ/as [θˀ]	NRI /ðˀ/ as [0]	NRI /ðˀ/as [f]	[m]	[rI m]	HVD	No HVD	/dʒ/ for /dʒ/ with [z]	/dʒ/ for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1				1				1						1		1	1					1
Group 2		1				1				1			1					1		1					1	1
Group 3	1				1				1				1					1		1			1	1		
Group 4				1	1				1				1					1		1	1					1
Group 5																										

	RI /ð/ as [ðˠ]	RI /ð/ as [θˠ]	RI /ð/ as [θ]	RI /θ/ as [f]	NRI /ð/ as [ðˠ]	NRI /ð/ as [θˠ]	NRI /ð/ as [θ]	NRI /ð/ as [f]	RI /θ/ as [ðˠ]	RI /θ/ as [θ]	RI /θ/ as [θˠ]	RI /θ/ as [f]	NRI /θ/ as [ðˠ]	NRI /θ/ as [θˠ]	NRI /θ/ as [θ]	NRI /θ/ as [f]	[m]	[ɾm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1										1				1				1		1						
Group 2		1				1				1				1				1							1	1
Group 3	1				1				1				1				1		1				1	1		
Group 4				1	1						1		1				1		1		1	1				
Group 5																										

	RI /ð'/ as [θ']	RI /ð'/ as [θ°]	RI /ð'/ as [θ]	RI /θ°/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ°]	NRI /ð°/ as [θ]	NRI /ð°/ as [f]	RI /ð°/ as [θ']	RI /ð°/ as [θ°]	RI /θ°/ as [θ]	RI /θ°/ as [f]	NRI /θ°/as [θ']	NRI /θ°/as [θ°]	NRI /θ°/ as [θ]	NRI /θ°/as [f]	[m]	[ɾ/m-]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1		1		1			1	1						1		1					1	1
Group 2		1				1				1				1				1	1		1				1	1
Group 3	1				1				1				1				1	1		1			1	1		1
Group 4				1	1						1		1				1	1			1					1
Group 5																										

	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /θ'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/as [θ']	NRI /ð'/as [θ']	NRI /ð'/ as [θ]	NRI /ð'/as [f]	[m]	[rm]	HVD	No HVD	/dʒ/ for /dʒ/ with [z]	/dʒ/ for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1				1	1							1	1				1	1			1	1				1
Group 2		1			1					1				1			1	1	1		1					1
Group 3	1				1			1	1			1					1	1	1	1			1	1		
Group 4				1	1						1	1					1	1	1		1					1
Group 5																										

	Ri /ð'/ as [θ']	Ri /ð'/ as [θ*]	Ri /ð'/ as [ð]	Ri /ð'/ as [f]	NRi /ð'/ as [θ']	NRi /ð'/ as [θ*]	NRi /ð'/ as [ð]	NRi /ð'/ as [f]	Ri /θ'/ as [θ']	Ri /θ'/ as [θ*]	Ri /θ'/ as [ð]	Ri /θ'/ as [f]	NRi /θ'/ as [θ']	NRi /θ'/ as [θ*]	NRi /θ'/ as [ð]	NRi /θ'/ as [f]	[m]	[m̩]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	0	1		1	1	0		1	1	1	1	1	1				0	1	1	1	1	0	1	0	1	1
Group 2	0	1		0	1	1		1	0	1	0	0	0	1			1	0	1	1	0	0	1	1	1	1
Group 3	1	0		1	1	0		1	1	0	1	0	1	1			0	1	1	1	0	0	1	1	1	0
Group 4	1	1		1	1	1		1	0	0	1	0	1	1			0	0	1	1	1	1	1	1	1	1
Group 5	0	0		1	1	1		0	1	0	0	1	1	1			0	0	0	1	0	0	0	0	1	0

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	1	0		1	1	0		1	1	1	0	1	1	1			0	1	1	1	1	0	0	0	1	1
Group 2	1	1		0	1	1		1	1	1	0	0	1	1			1	1	1	0	0	0	1	1	1	1
Group 3	1	1		0	1	1		0	1	1	0	0	1	1			1	1	1	1	0	1	1	1	0	1
Group 4	1	1		0	1	1		0	0	1	0	1	1	0			1	1	1	0	0	0	1	0	1	1
Group 5	1	0		1	1	1		0	0	1	1	1	0	0			0	1	1	1	1	1	0	1	0	0

	RI /ð'/ as [ð°]	RI /ð'/ as [θ°]	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/ as [ð°]	NRI /ð'/ as [θ°]	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /θ'/ as [ð°]	RI /θ'/ as [θ°]	RI /θ'/ as [θ]	RI /θ'/ as [f]	NRI /θ'/as [ð°]	NRI /θ'/as [θ°]	NRI /θ'/ as [θ]	NRI /θ'/as [f]	[m]	[ɱ]	HVD	No HVD	[ʤ] for /ʤ/ with [ɟ]	[ʤ] for /ʤ/ without [ɟ]	[ʧ] for /ʧ/ with [c]	[ʧ] for /ʧ/ without [c]	[ʃ] for /ʤ/ with [ʃ]	[ʃ] for /ʤ/ without [ʃ]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	0	1		0	0	1		0	0	1	0	0	1	1			0	1	1	1	0	0	1	0	1	1
Group 2	0	1		0	1	1		1	0	1	1	0	1	1			1	0	1	0	0	0	1	1	0	1
Group 3	1	1		1	1	1		1	1	0	1	0	1	0			1	1	1	1	0	1	1	0	1	1
Group 4	1	1		1	1	0		0	0	1	1	0	1	0			1	0	1	1	0	1	1	1	1	
Group 5	0	1		1	1	1		1	0	1	1	1	1	0			1	0	1	0	1	1	0	1	1	0

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð/ as [θ*]	RI /ð/ as [θ*]	RI /ð/ as [d]	RI /ð/ as [f]	NRI /ð/ as [θ*]	NRI /ð/ as [θ*]	NRI /ð/ as [d]	NRI /ð/ as [f]	RI /θ/ as [θ*]	RI /θ/ as [d]	RI /θ/ as [θ]	RI /θ/ as [f]	NRI /θ/ as [θ*]	NRI /θ/ as [θ*]	NRI /θ/ as [d]	NRI /θ/ as [f]	[m]	[ɱ]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
Group 1	0	1		0	0	1		1	1	1	0	1	1	1			0	1	0	1	1	0	0	0	1	1
Group 2	1	1		1	1	1		0	0	1	1	0	1	1			1	1	1	1	0	0	0	0	1	1
Group 3	1	0		1	1	1		0	1	1	0	0	1	1			0	1	1	1	0	1	1	1	0	1
Group 4	1	0		1	1	1		1	1	0	1	1	1	1			1	0	1	0	1	1	1	1	0	1
Group 5	0	0		1	0	1		1	0	1	0	1	0	0			0	1	0	1	0	0	0	1	0	1

	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/as [θ']	NRI /ð'/as [θ']	NRI /ð'/ as [θ]	NRI /ð'/as [f]	[m]	[rm-]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	1	1		1	1	1		1	1	0	1	1	1	0			0	1	0	1	1	1	1	1	0	1
Group 2	1	1		1	1	1		0	0	1	0	1	1	1			0	1	1	1	1	1	1	0	1	1
Group 3	1	1		0	0	1		1	1	0	1	0	1	0			1	1	0	1	1	1	1	1	1	0
Group 4	0	1		1	1	1		0	1	0	1	1	1	0			0	1	1	1	1	1	0	0	1	1
Group 5	1	0		1	1	1		1	0	1	1	1	1	1			1	1	0	1	0	0	1	0	0	1

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð/ as [θ]	RI /ð/ as [θ]	RI /ð/ as [0]	RI /ð/ as [f]	NRI /ð/ as [θ]	NRI /ð/ as [θ]	NRI /ð/ as [0]	NRI /ð/ as [f]	RI /θ/ as [ð]	RI /θ/ as [θ]	RI /θ/ as [0]	RI /θ/ as [f]	NRI /θ/ as [ð]	NRI /θ/ as [θ]	NRI /θ/ as [0]	NRI /θ/ as [f]	[m]	[ŋm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [r]	[ʒ] for /dʒ/ with [r]	[ʒ] for /dʒ/ without [r]	[z] for /dʒ/ with [r]	[z] for /dʒ/ without [r]
Group 1	0	0		1	0	0		1	0	0	1	1	0	1			1	1	0	1	1	0	1	1	0	1
Group 2	1	1		1	1	1		0	0	1	0	0	1	0			0	1	1	1	1	1	1	1	0	0
Group 3	1	0		0	1	1		0	1	0	0	1	1	1			1	1	1	1	1	0	1	1	0	0
Group 4	0	1		1	1	1		1	1	1	1	0	1	0			0	1	0	1	1	1	1	1	1	1
Group 5	0	0		0	1	0		1	1	0	0	0	1	1			1	0	0	0	0	1	1	1	0	1

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /θ'/ as [f]	NRI /ð'/ as [ð']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	[m]	[ɾm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
Group 1	0	1		1	0	1		1	0	0	1	1	1	1			0	1	0	1	0	1	0	1	1	1
Group 2	0	1		1	0	1		0	0	1	1	0	1	0			0	1	0	1	1	0	1	1	1	1
Group 3	1	1		0	1	1		0	0	1	1	0	1	0			0	1	0	1	0	1	0	1	1	1
Group 4	1	1		0	0	1		0	1	1	0	1	0	0			0	1	1	1	0	0	0	1	1	1
Group 5	0	0		0	0	1		0	0	1	1	0	1	1			0	0	1	0	1	1	0	0	1	1

	RI /ð'/ as [ð']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /θ'/ as [f]	NRI /ð'/ as [ð']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /θ'/ as [ð']	RI /θ'/ as [θ']	RI /θ'/ as [θ]	RI /θ'/ as [f]	NRI /θ'/as [ð']	NRI /θ'/as [θ']	NRI /θ'/ as [θ]	NRI /θ'/as [f]	[m]	[ʔm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]	[z] for /dʒ/ with [z]	[z] for /dʒ/ without [z]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	0	0		1	0	0		1	0	0	1	1	1	0			1	1	0	1	1	1	0	0	1	1
Group 2	0	1		1	0	1		1	0	1	1	1	0	0			1	1	1	1	1	0	1	1	0	1
Group 3	1	1		0	1	1		1	1	1	0	0	0	0			1	1	1	1	1	0	1	0	0	1
Group 4	1	0		1	1	0		0	1	0	1	1	1	1			1	1	0	1	1	1	1	1	0	0
Group 5	1	0		1	1	0		0	1	1	0	0	0	1			0	0	1	1	0	1	0	0	1	1

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [0]	RI /ð'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ']	NRI /ð'/ as [0]	NRI /ð'/ as [f]	RI /θ'/ as [ð']	RI /θ'/ as [θ']	RI /θ'/ as [0]	RI /θ'/ as [f]	NRI /θ'/ as [ð']	NRI /θ'/ as [θ']	NRI /θ'/ as [0]	NRI /θ'/ as [f]	[m]	[rm-]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʃ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
Group 1	0	0		1	1	1		0	0	0	1	1	0	1			1	1	0	1	0	1	1	1	0	1
Group 2	1	1		1	1	1		0	0	1	0	0	1	1			1	1	1	1	1	0	0	1	1	1
Group 3	1	1		1	1	0		0	1	0	0	0	1	1			1	1	1	1	1	0	1	1	0	1
Group 4	1	1		1	1	1		1	1	1	1	0	1	1			1	1	1	0	1	1	0	1	0	0
Group 5	1	0		0	0	0		0	1	1	1	1	0	1			1	1	1	0	1	0	1	1	1	1

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [ð]	RI /θ'/ as [f]	NRI /ð'/ as [θ']	NRI /ð'/ as [θ']	NRI /ð'/ as [ð]	NRI /ð'/ as [f]	RI /ð'/ as [θ']	RI /ð'/ as [θ']	RI /ð'/ as [ð]	RI /ð'/ as [f]	NRI /ð'/as [θ']	NRI /ð'/as [θ']	NRI /ð'/ as [ð]	NRI /ð'/as [f]	[m]	[ŋm]	HVD	No HVD	[dʒ] for /dʒ/ with [z]	[dʒ] for /dʒ/ without [z]	[ʃ] for /dʒ/ with [z]	[ʃ] for /dʒ/ without [z]	[ʒ] for /dʒ/ with [z]	[ʒ] for /dʒ/ without [z]
Group 1	1	1		1	1	1		1	0	1	0	1	1	0			0	1	1	1	1	1	1	0	1	1
Group 2	1	1		1	1	1		0	1	1	0	1	0	1			1	0	1	1	1	1	0	0	1	1
Group 3	1	0		0	1	1		0	1	1	0	0	1	0			0	1	0	1	1	1	1	1	0	1
Group 4	1	0		1	1	0		1	1	1	0	1	1	1			1	0	1	1	1	1	0	1	1	1
Group 5	0	1		0	1	1		0	0	0	1	0	0	0			0	1	1	1	0	1	0	0	-1	0

	RI /ð/ as [θ]	RI /ð/ as [θ]	RI /ð/ as [0]	RI /ð/ as [f]	NRI /ð/ as [ð]	NRI /ð/ as [θ]	NRI /ð/ as [0]	NRI /ð/ as [f]	RI /θ/ as [θ]	RI /θ/ as [θ]	RI /θ/ as [0]	RI /θ/ as [f]	NRI /θ/ as [θ]	NRI /θ/ as [θ]	NRI /θ/ as [0]	NRI /θ/ as [f]	[m]	[ʔm]	HVD	No HVD	[ʤ] for /ʤ/ with [z]	[ʤ] for /ʤ/ without [z]	[ʒ] for /ʤ/ with [z]	[ʒ] for /ʤ/ without [z]	[z] for /ʤ/ with [?]	[z] for /ʤ/ without [?]
	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
Group 1	1	1		1	0	1		1	1	0	0	1	1	1			1	1	1	1	1	1	0	1	1	1
Group 2	1	1		1	0	1		1	1	0	0	0	1				1	1	1	0	1	1	0	1	1	1
Group 3	1	0		1	1	0		0	1	0	1	1	1				0	1	0	1	1	1	1	1	1	1
Group 4	0	1		1	1	1		0	1	1	1	1	1	1			1	0	1	1	1	0	1	1	0	1
Group 5	0	0		1	0	0		0	1	0	1	1	1	0			1	0	0	0	1	0	0	1	1	1

	F1	F2	F3	F4	F5	F6	F7	F8	F9	F10	F11	F12	F13	F14	F15	F16	F17	F18	F19	F20	F21	F22	F23	F24	F25	F26
	RI /ð'/ as [ð']	RI /ð'/ as [θ']	RI /ð'/ as [θ]	RI /ð'/ as [f]	NRI /ð'/ as [ð']	NRI /ð'/ as [θ']	NRI /ð'/ as [θ]	NRI /ð'/ as [f]	RI /θ'/ as [θ']	RI /θ'/ as [θ]	RI /θ'/ as [ð]	RI /θ'/ as [f]	NRI /θ'/ as [θ']	NRI /θ'/ as [θ]	NRI /θ'/ as [ð]	NRI /θ'/ as [f]	[m]	[rm]	HVD	No HVD	[dʒ] for /dʒ/ with [ʒ]	[dʒ] for /dʒ/ without [ʒ]	[ʃ] for /dʒ/ with [ʒ]	[ʃ] for /dʒ/ without [ʒ]	[ʒ] for /dʒ/ with [ʒ]	[ʒ] for /dʒ/ without [ʒ]
Group 1	0	0		1	0	1		1	1	1	1	1	1	0			0	1	1	1	0	0	1	1	1	1
Group 2	0	1		0	0	1		1	1	1	0	0	1	0			1	1	1	1	1	1	1	1	1	1
Group 3	1	1		1	1	0		0	1	0	1	1	1	0			0	1	0	1	0	0	1	1	1	1
Group 4	1	1		0	1	1		1	0	0	1	1	1	1			1	1	1	0	1	1	1	1	0	0
Group 5	0	0		0	1	1		1	0	1	1	0	0	1			1	1	1	1	0	0	1	1	0	0

Feature	Feature #	Group 1	Group 2	Group 3	Group 4	Group 5
RI /dˤ/ as [ðˤ]	F1	0	3	28	5	0
RI /dˤ/ as [θˤ]	F2	4	27	2	0	2
RI /dˤ/ as [θ]	F3	0	0	0	0	0
RI /dˤ/ as [f]	F4	26	0	0	22	0
NRI /dˤ/ as [ðˤ]	F5	3	3	27	27	2
NRI /dˤ/ as [θˤ]	F6	2	27	0	0	0
NRI /dˤ/ as [θ]	F7	0	0	0	0	0
NRI /dˤ/ as [f]	F8	25	0	3	0	0
RI /ðˤ/ as [ðˤ]	F9	0	0	27	2	0
RI /ðˤ/ as [θˤ]	F10	3	27	0	2	0
RI /ðˤ/ as [θ]	F11	2	2	3	22	2
RI /ðˤ/ as [f]	F12	25	1	0	1	0
NRI /ðˤ/as [ðˤ]	F13	21	11	24	23	2
NRI /ðˤ/as [θˤ]	F14	7	17	4	2	0
NRI /ðˤ/ as [θ]	F15	0	0	0	0	0
NRI /ðˤ/as [f]	F16	0	0	0	0	0
[m]	F17	0	21	1	20	2
[ʔim-]	F18	30	9	29	7	0
HVD	F19	0	21	1	20	2
No HVD	F20	30	9	29	7	0
[d͡ʒ] for /d͡ʒ/ with [z]	F21	7	5	1	14	2
[d͡ʒ] for /d͡ʒ/ without [z]	F22	1	0	0	1	0
[ʒ] for /d͡ʒ/ with [z]	F23	2	3	22	2	0
[ʒ] for /d͡ʒ/ without [z]	F24	2	3	22	2	0
[ź] for /d͡ʒ/ with [z]	F25	21	22	5	11	0
[ź] for /d͡ʒ/ without [z]	F26	27	27	10	20	0

Highest value for each feature group is highlighted with the group's color

F	Group 1	Group 2	Group 3	Group 4
Allophone of /ðˤ/ (CA /dˤ/)				
Root-initial	[f]	[θˤ]	[ðˤ]	[f]
Non root-initial	[f]	[θˤ]	[ðˤ]	[ðˤ]
Allophone of /ðˤ/ (CA /ðˤ/)				
Root-initial	[ðˤ]	[θˤ]	[ðˤ]	[θ]
Non root-initial	[ðˤ]	[θˤ]	[ðˤ]	[ðˤ]
Allomorph of /m-/	[ʔim-]	[m-]	[ʔim-]	[m-]
High vowels in initial	Not deleted	Deleted	Not deleted	Deleted
Allophone of /d͡ʒ/				
With /z/	[ź]	[ź]	[ʒ]	[d͡ʒ]
Without /z/	[ź]	[ź]	[ʒ]	[ź]