

Appendix A: Means (*SD* = standard deviations) of normalized F1 and F2 values (Lobanov, 1971) for 20 nonce word vowels produced by the two male and two female nonce speakers of each accent (2 tokens/word/speaker).

Gray highlighting indicates whether the <past> vowel (BATH lexical set: Wells, 1982) is produced as the <bard> vowel (PALM/START lexical set), as in Australia, London and New Zealand (dark gray), or is instead produced as the <bad> vowel (TRAP lexical set), as in Yorkshire and Newcastle (light gray).

nonce word <keyword>	accent	AUSTRALIA <i>Western Sydney</i>		LONDON <i>southeast</i>		NEW ZEALAND <i>Christchurch</i>		YORKSHIRE <i>Leeds, Sheffield</i>		NEWCASTLE UK <i>city & surrounds</i>	
	formant	F1	F2	F1	F2	F1	F2	F1	F2	F1	F2
ZOYBA	mean	589	1268	610	1295	579	1137	666	1194	703	1373
<boyd>	<i>sd</i>	42	158	35	205	26	151	49	86	82	100
ZOBBA	mean	649	1334	646	1343	679	1308	706	1286	738	1386
<pod>	<i>sd</i>	47	36	29	39	37	65	36	51	25	89
ZARBA	mean	879	1494	807	1339	910	1512	855	1491	810	1310
<bard>	<i>sd</i>	29	71	31	57	53	86	41	74	42	61
ZIBBA	mean	485	2186	471	2117	541	1799	520	2022	573	1944
<bid>	<i>sd</i>	21	151	40	94	32	82	31	83	28	98
ZAHBA	mean	856	1439	841	1346	921	1538	833	1552	881	1606
<past>	<i>sd</i>	33	62	60	105	35	70	45	66	45	78
ZOEBA	mean	632	1574	676	1551	636	1474	583	1496	529	1387
<code>	<i>sd</i>	40	111	31	143	43	65	34	120	29	62
ZEBBA	mean	649	1866	653	1927	517	2248	700	1838	746	1851
<bed>	<i>sd</i>	24	67	36	91	43	91	35	89	47	101
ZIEBA	mean	816	1602	819	1363	898	1552	871	1405	853	1491
<hide>	<i>sd</i>	48	750	48	74	30	80	46	126	147	163
ZAYBA	mean	788	1901	708	1954	725	2022	622	2155	541	2244
<paid>	<i>sd</i>	44	129	49	125	76	99	45	141	38	145
ZURBA	mean	600	1683	638	1739	584	1809	606	1728	585	1817
<bird>	<i>sd</i>	35	121	82	87	31	138	33	52	38	221
ZEEBA	mean	492	2360	406	2599	475	2449	402	2642	461	2555
<bead>	<i>sd</i>	43	153	45	169	54	130	18	90	40	146
ZOWBA	mean	795	1921	902	1731	819	1727	830	1608	820	1676
<proud>	<i>sd</i>	45	236	121	135	68	113	53	87	48	106

ZORBA	mean	567	1115	544	1144	575	1052	670	1205	611	1120
<bored>	sd	21	48	18	105	26	47	73	26	54	104
ZABBA	mean	852	1691	812	1706	691	1755	815	1584	860	1579
<bad>	sd	26	94	45	145	92	332	39	89	18	111
ZUBBA	mean	797	1533	767	1562	768	1526	528	1508	591	1501
<bud>	sd	41	61	47	75	49	86	32	44	38	89
ZEERBA	mean	467	2438	521	2385	530	2321	441	2551	496	2412
<beard>	sd	29	141	35	71	49	117	26	90	27	78
ZAIRBA	mean	654	2082	671	2055	563	2281	764	1944	707	2135
<paired>	sd	36	131	69	76	54	96	22	48	68	137
ZOوبا	mean	474	1377	536	1688	551	1469	515	1508	459	1458
<hood>	sd	31	55	40	189	29	71	26	50	22	453
ZEWBA	mean	445	1934	436	2048	470	1876	442	2053	508	1897
<rude>	sd	8	89	48	190	26	191	27	118	21	195
ZOURBA	mean	515	1202	539	1110	570	1147	632	1231	529	1260
<toured>	sd	48	138	35	95	23	118	63	100	48	112

References

- Lobanov, B. M. (1971). Classification of Russian vowels spoken by different speakers. The Journal of the Acoustical Society of America, 49(2B), 606-608.
- Wells, J. C. (1982). *Accents of English* (3 vols.). Cambridge: Cambridge University Press.