



RADIO REVIEW

Contributed by N.Z. DX R.A. Inc.

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Harmonics

Fred. Morgan (Waiau) writes to let us know that he has tried the various stations listed in this column and found some at good clear strength. Mr. Morgan is puzzled at the reception of 2YB New Plymouth, which he hears on 810 kc/s and 1620 kc/s, and on the shortwave band. This query will no doubt interest others. The answer is that 2YB's fundamental transmission occurs on 810 kilocycles, which is termed the first harmonic; the second harmonic or repeat spot will be found further down the band, viz., on 1620 kc/s, the third on 2430 kc/s, and so on.

We are unable to advise the writer why reception of 1620 signal should be stronger than that of 810 kc/s.

(The old variable condensers had a full circular movement—the present type describe a semi-circle.—DX.Ed.)

American Radio Revenue

The total revenue of 705 standard broadcast stations in America for the calendar year 1939 amounted to \$89,990,646.

For statisticians this table will be interesting.

Year	Stations	Revenue
1939	705	\$89,990,646
1938	660	79,128,760

The major networks also show an increase in station numbers and revenue:

Year	Stations	Revenue
1939	397	\$22,500,941
1938	350	19,645,447

The three major networks, Columbia, Mutual and National, claimed \$5,631,228 net or 23.9% of the total.

Their 23 stations had \$5,428,924 or 23%.

Which left \$12,531,792 or 53.1% to the 682 other stations.

Jam in Italy

"I never thought the Italian people would be barred from hearing British broadcasts in their own language as a result of jamming by their radio authorities," said the radio contributor to the Wellington "Evening Post" in August. "Not for one moment do I think it a decision of E.I.A.R., the official broadcasting authority, to purposely jam the BBC bulletins in Italian, but rather an order for them to do so issued by the Fascist Government.

"Have you ever heard the interference, by the way? If not, then stay up one night and listen. It is not an objectionable sound as was the case when Germany and Russia used to jam each other's talks and news bulletins, but something akin to the tinkling of sleigh bells. The jamming starts promptly at 10.45, and ends with the last word of the bulletin at 11."

NEWS BULLETINS IN ENGLISH

THIS list of overseas stations broadcasting news in English has been checked after the Summer Time changes, by the N.Z. DX Radio Association. The times are New Zealand Summer Time. Listeners are warned that last minute changes, continually taking place, may affect the accuracy of the list.

A.M.	Location	Call	Metres	Mc/s
00.00	*Cincinnati	WLWO	31.28	9.59
00.00	*Cincinnati	WLWO	25.27	11.87
00.30	Delhi	VUD2	31.28	9.59
00.30	Szechwan	XGOY	25.21	11.90
00.30	Japan	JZK	19.79	15.19
		JZJ	25.42	11.80
00.30	San Francisco	KGEI	31.48	9.53
00.45	Manila	KZRM	31.35	9.57
1.10	Canton	XGOK	25.66	11.67
1.45	Manila	KZRH	31.12	9.64
2.0	Shanghai	FFZ	24.8	12.05
2.30	San Francisco	KGEI	31.48	9.53
2.30	Rangoon	YXZ	49.94	6.01
2.45	Manila	KZRM	31.35	9.57
3.35	Manchukuo	MTCY	25.48	11.77
3.45	Madras	VUM2	60.63	4.92
3.50	Delhi	VUD3	31.28	9.59
4.0	Shanghai	FFZ	24.8	12.05
6.15	Turkey	TAP	31.7	9.46
8.0	Moscow	RW96	31.51	9.52
8.0	Manchukuo	MTCY	25.48	11.77
8.0	Japan	JZJ	25.42	11.80
		JZK	19.79	15.19
9.0	Manchukuo	MTCY	25.48	11.77
9.25	Yugoslavia	YUD	49.18	6.10
9.30	Moscow	RW96	31.51	9.52
10.30	Szechwan	XGOY	25.21	11.90
10.30	Moscow	RW96	31.51	9.52
P.M.				
2.30	Moscow	RW96	31.51	9.52
2.30	Moscow	RNE	25.0	12.0
3.0	Pittsburgh	WPIT	25.27	11.87
3.0	Schenectady	WGEA	31.41	9.55
3.0	New York	WRCA	31.02	9.67
3.0	Philadelphia	WCAB	31.28	9.59
4.0	Cincinnati	WLWO	31.28	9.59
4.0	Cincinnati	WLWO	25.27	11.87
4.30	Boston	WBOS	31.35	9.57
4.45	Winnepeg	CJRX	25.60	11.72
4.45	Pittsburgh	WPIT	48.86	6.14
4.55	Philadelphia	WCAB	31.28	9.59
5.55	Boston	WBOS	31.35	9.57
5.55	Philadelphia	WCAB	31.28	9.59
6.0	San Francisco	KGEI	31.02	9.67
6.55	New York	WCBS	48.62	6.17

P.M.	Location	Call	Metres	Mc/s
7.0	Manchukuo	MTCY	25.48	11.77
7.30	Tokio	JZK	19.80	15.16
8.0	Moscow	RW96	19.76	15.18
9.0	Melbourne	VLR	31.32	9.58
9.0	Perth	VLW3	25.36	11.83
9.55	Tokio	JVW3	25.60	11.72
10.30	Szechwan	XGOY	25.17	11.95
10.30	Philippine Is.	KZRC	49.14	6.11
10.30	Manila	KZRM	31.35	9.57
10.45	Saigon	Saigon	25.46	11.78
11.0	Perth	VLW2	31.09	9.65
11.0	*Cincinnati	WLWO	31.28	9.59
11.0	*Cincinnati	WLWO	25.27	11.87
11.15	Turkey	TAQ	19.74	15.19

*Alternates weekly on these frequencies: 31.28 metres and 25.7 metres.

NEWS FROM LONDON

THE news broadcasts listed below are given in chronological order, with the stations operating the BBC Empire Service printed against each time in the order in which they are best heard in New Zealand. The Listener cannot be responsible for changes made in the schedule at the last minute.

N.Z. Summer Time	CALL	METRES	Mc/s	Nature of broadcast
01.00	GSV	16.84	17.81	News and Topical Talk
04.00	GSF	19.82	15.14	News and Topical Talk
	GSD	25.53	11.75	News and Topical Talk
06.00	GSD	25.53	11.75	News and Commentary
	GSI	19.66	15.26	News and Commentary
08.45	Same stations			News
10.45	Same stations and GSC	31.32	09.58	News
11.00	Same stations			Topical Talk
P.M.				
1.00	GSF	19.82	15.14	News
	GSE	25.29	11.86	News
	GSE	31.55	09.51	News
1.30	Same stations			"Britain Speaks"
1.45	Same stations			News and Commentary
3.30	GSB	31.55	09.51	BBC Newsreel
	GSC	31.32	09.58	BBC Newsreel
	GSD	25.53	11.75	BBC Newsreel
4.30	Same stations			News Summary
6.15	GSB	31.55	09.51	News
	GSD	25.53	11.75	News
	GSE	25.29	11.86	News
	GSI	19.66	15.26	News
6.30	Same stations			Topical Talk
8.30	Same stations			News and Commentary
9.45	GSI	19.66	15.26	BBC Newsreel
	GSF	19.82	15.14	BBC Newsreel
	GSD	25.53	11.75	BBC Newsreel
11.00	GSV	16.84	17.81	News
	GSP	19.60	15.31	News
11.15	Same stations			Topical Talk

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