

# Radio-TV EXPERIMENTER

**WHITE'S  
RADIO LOG**

- TV STATIONS
- WORLDWIDE SW
- POLICE/EMERGENCY

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*Science and  
Electronics*

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Complete plans on page 57

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EC-1800 Electronic "TOX" \$8.95,  
EC-1900 "Treasure Finder" \$9.95,  
EC-2000 Electronic Organ \$9.95,  
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EC-2200 Electronic "Magic" Switch \$9.95



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FREE 1969 CATALOG

RTVE-4

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Before you put out money for a home study course in TV Servicing and Repair, take a look at what's new.

National Electronic Associations did. They checked out the new TV training package being offered by ICS. Inspected the six self-teaching texts. Followed the step-by-step diagrams and instructions. Evaluated the material's practicality, its fitness for learning modern troubleshooting (including UHF and Color).

Then they approved the new course for use in their own national apprenticeship program.

They went even further and endorsed this new training as an important step for anyone working toward recognition as a Certified Electronic Technician (CET).

This is the first time a self-taught training program has been approved by NEA.

The surprising thing is that this is not a course that costs hundreds of dollars and takes several years to complete. It includes no kits or gimmicks. Requires no experience, no elaborate shop setup.

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Learning by doing, you should be able to complete your basic training in six months. You then take a final examination to win your ICS diploma and membership in the ICS TV Servicing Academy.

Actually, when you complete the first two texts, you'll be able to locate and repair 70% of common TV troubles. You can begin taking servicing jobs for money or start working in any of a number of electronic service businesses as a sought-after apprentice technician.

Which leads to the fact that this new course is far below the cost you would expect to pay for a complete training course. Comparable courses with their Color TV kits cost as much as six times more than the \$99 you'll pay for this one.

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Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

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# Radio-TV and **EXPERIMENTER**

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**UNUSUAL BARGAINS BY MAIL**

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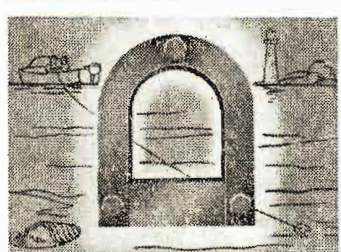
- Walnut Cabinet Model  
 No. 85,181HP ..... \$99.50 F.O.B.  
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## NEW! PROJECTION KALEIDOSCOPE

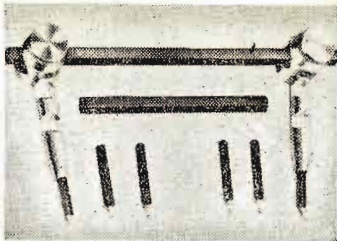
At last—a low-cost unit complete with easily interchanged 9" diam. liquid wheel. Projects infinite variety of brilliant color patterns which do not repeat. Specially designed wheel, 3" projection lens and Edmund Projector make it all possible. Easily operated. Large screen image at short projection distance perfect for photo backgrounds, light shows, parties, dances, etc. Front or rear projection. Incl.: 1 RPM 115V Motor, motor bracket, instructions.

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 Solid Multi-Colored Glass Accessory Wheel  
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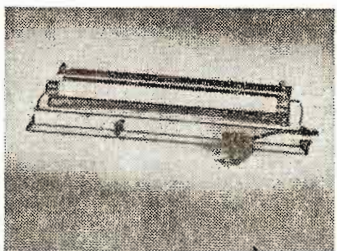
## "FISH" WITH A MAGNET

Go treasure hunting on the bottom! Great idea! Fascinating fun and sometimes tremendously profitable! Tie a line to this powerful but lightweight Magnet—drop it overboard in bay, river, lake or ocean. Trawl along the bottom—your "treasure" haul can be outboard motors, anchors, fishing tackle—all kinds of metal valuables. Specially designed horseshoe-shaped with 31½" set, gripping surface. Tremendous lifting power—over 150 lbs. on land, much more under water.  
 No. 71,135HP... 150 Lb. Pull... \$12.50 Ppd.  
 No. 71,134HP... 75 Lb. Pull... \$6.50 Ppd.



## NEW LOW-COST SPANNER WRENCH

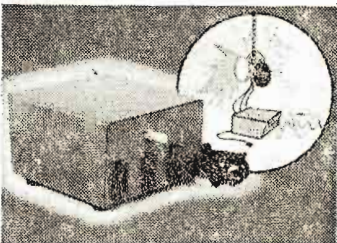
Quickly remove, replace retaining rings—disassemble lenses, cameras, etc. Ideal for repairing instruments, optics. Adjustable for ½" to 7" diam. rings. Adjustable legs permit extending aluminum tips 1½" to 3" below wrench body. Incl.: 2 steel hex bars 3½" and 7" lg., 3 pair regular tips, (2) .025 thick flat tips, (2) .062 diam. pin-type tips.  
 Stock No. 70,751HP ..... \$12.55 Ppd.



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- Stock No. 70,364HP ..... \$9.85 Ppd.  
 No. 60,124HP (Replacement Bulb) \$3.25 Ppd.



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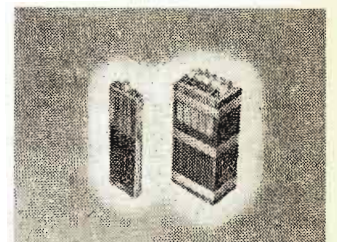
- Stock No. 1900HP ..... \$39.95 Ppd.  
 4 Channel De Luxe 2,000 Watt  
 Stock No. 71,103HP ..... \$195.00 Ppd.



## ASTRONOMICAL TELESCOPE KITS

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Stock No.	Diam.	Thickness	Price
70,003HP	4¼"	¾"	\$8.00 Ppd.
70,004HP	6"	1"	13.95 Ppd.
70,005HP	8"	1¾"	21.00 Ppd.
70,006HP	10"	1¾"	34.25 F.O.B.
70,007HP	12½"	2½"	65.85 F.O.B.



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and **Science and  
Electronics**

April/May 1969  
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# WHITE'S RADIO LOG

An up-to-date Directory of North American AM, FM, and TV Stations, including special sections on World-Wide Shortwave Stations and Emergency Stations for Selected Areas

## WHITE'S RADIO LOG CONTENTS FOR 1969\*

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	Emergency Radio Services—Boston Area	
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	Canadian AM Stations by Call Letters	
	Canadian FM Stations by Call Letters	
	World-Wide Shortwave Stations	
	Emergency Radio Services—Washington-Baltimore Area	

\* If you save six consecutive issues of Radio-TV Experimenter and Science and Electronics, you will have a complete White's Radio Log. If you have missed an issue, you may be able to get a copy by writing directly to the publisher stating which issue you wish and enclosing \$1.00 for each issue.

# U. S. Television Stations by States

U. S. stations listed alphabetically by cities within state groups. Territories and possessions follow states. Chan., channel; C.L., call letters, †, educational stations. Listing indicates stations on the air up to December 16, 1968.

## WHITE'S RADIO LOG

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.
<b>ALABAMA</b>			<b>ALABAMA</b>			<b>ALABAMA</b>		
Birmingham	WBRC-TV	6	Birmingham	WBRC-TV	6	Birmingham	WBRC-TV	6
	WAPI-TV	13		WAPI-TV	13		WAPI-TV	13
	WBMC-TV	42		WBMC-TV	42		WBMC-TV	42
	†WBIO-TV	1		†WBIO-TV	1		†WBIO-TV	1
Decatur	WMSL-TV	23	Decatur	WMSL-TV	23	Decatur	WMSL-TV	23
Dothan	WTYY	4	Dothan	WTYY	4	Dothan	WTYY	4
Dozier	†WDIQ-TV	2	Dozier	†WDIQ-TV	2	Dozier	†WDIQ-TV	2
Florence	†WFIQ-TV	36	Florence	†WFIQ-TV	36	Florence	†WFIQ-TV	36
	WOWL-TV	15		WOWL-TV	15		WOWL-TV	15
Huntsville	WHNT-TV	19	Huntsville	WHNT-TV	19	Huntsville	WHNT-TV	19
	†WHIQ-TV	25		†WHIQ-TV	25		†WHIQ-TV	25
	WAAY-TV	31		WAAY-TV	31		WAAY-TV	31
Louisville	†WGII-TV	43	Louisville	†WGII-TV	43	Louisville	†WGII-TV	43
Mobile	WKRQ-TV	5	Mobile	WKRQ-TV	5	Mobile	WKRQ-TV	5
	WALA-TV	10		WALA-TV	10		WALA-TV	10
	†WEI-TV	42		†WEI-TV	42		†WEI-TV	42
Montgomery	WFA-TV	12	Montgomery	WFA-TV	12	Montgomery	WFA-TV	12
	WCOV-TV	20		WCOV-TV	20		WCOV-TV	20
	WKAB-TV	32		WKAB-TV	32		WKAB-TV	32
	†WAIQ-TV	26		†WAIQ-TV	26		†WAIQ-TV	26
Mount Cheaha State Park	†WCIC-TV	7	Mount Cheaha State Park	†WCIC-TV	7	Mount Cheaha State Park	†WCIC-TV	7
Tuscaloosa	WCFT-TV	33	Tuscaloosa	WCFT-TV	33	Tuscaloosa	WCFT-TV	33
<b>ALASKA</b>			<b>ALASKA</b>			<b>ALASKA</b>		
Anchorage	KENI-TV	2	Anchorage	KENI-TV	2	Anchorage	KENI-TV	2
	KTV	11		KTV	11		KTV	11
	KHAR-TV	13		KHAR-TV	13		KHAR-TV	13
Fairbanks	KFAR-TV	2	Fairbanks	KFAR-TV	2	Fairbanks	KFAR-TV	2
	KTVF	11		KTVF	11		KTVF	11
Juneau	KINY-TV	8	Juneau	KINY-TV	8	Juneau	KINY-TV	8
Sitka	KIFW-TV	13	Sitka	KIFW-TV	13	Sitka	KIFW-TV	13
<b>ARIZONA</b>			<b>ARIZONA</b>			<b>ARIZONA</b>		
Nogales	XHFA-TV	2	Nogales	XHFA-TV	2	Nogales	XHFA-TV	2
	KZAZ-TV	3		KZAZ-TV	3		KZAZ-TV	3
Phoenix	KPAZ-TV	21	Phoenix	KPAZ-TV	21	Phoenix	KPAZ-TV	21
	KPHO-TV	5		KPHO-TV	5		KPHO-TV	5
	KOOL-TV	10		KOOL-TV	10		KOOL-TV	10
	KTAR-TV	12		KTAR-TV	12		KTAR-TV	12
	†KAET-TV	8		†KAET-TV	8		†KAET-TV	8
	*KPAZ-TV	21		*KPAZ-TV	21		*KPAZ-TV	21
	KLUZ-TV	15		KLUZ-TV	15		KLUZ-TV	15
Tucson	KVOA-TV	4	Tucson	KVOA-TV	4	Tucson	KVOA-TV	4
	KGUN-TV	9		KGUN-TV	9		KGUN-TV	9
	KOLD-TV	13		KOLD-TV	13		KOLD-TV	13
	†KUAT-TV	6		†KUAT-TV	6		†KUAT-TV	6
Yuma	KIVA-TV	11	Yuma	KIVA-TV	11	Yuma	KIVA-TV	11
	KBLU-TV	13		KBLU-TV	13		KBLU-TV	13
<b>ARKANSAS</b>			<b>ARKANSAS</b>			<b>ARKANSAS</b>		
El Dorado	KTVE	10	El Dorado	KTVE	10	El Dorado	KTVE	10
Fayetteville	KGTO-TV	36	Fayetteville	KGTO-TV	36	Fayetteville	KGTO-TV	36
Ft. Smith	KFSA-TV	5	Ft. Smith	KFSA-TV	5	Ft. Smith	KFSA-TV	5
Jonesboro	KAIT-TV	8	Jonesboro	KAIT-TV	8	Jonesboro	KAIT-TV	8
Little Rock	KARK-TV	4	Little Rock	KARK-TV	4	Little Rock	KARK-TV	4
	KATV	7		KATV	7		KATV	7
	KTHV	11		KTHV	11		KTHV	11
	†KETS-TV	2		†KETS-TV	2		†KETS-TV	2
<b>CALIFORNIA</b>			<b>CALIFORNIA</b>			<b>CALIFORNIA</b>		
Bakersfield	KLYD-TV	17	Bakersfield	KLYD-TV	17	Bakersfield	KLYD-TV	17
	KERO-TV	23		KERO-TV	23		KERO-TV	23
	KBAK-TV	29		KBAK-TV	29		KBAK-TV	29
Chico	KHSL-TV	12	Chico	KHSL-TV	12	Chico	KHSL-TV	12
El Centro	KECC-TV	9	El Centro	KECC-TV	9	El Centro	KECC-TV	9
Corona	KBSC-TV	52	Corona	KBSC-TV	52	Corona	KBSC-TV	52
El Centro-Mexicali	XHBC-TV	3	El Centro-Mexicali	XHBC-TV	3	El Centro-Mexicali	XHBC-TV	3
Eureka	KIEM-TV	3	Eureka	KIEM-TV	3	Eureka	KIEM-TV	3
	KVIQ-TV	6		KVIQ-TV	6		KVIQ-TV	6
	†KRWE-TV	13		†KRWE-TV	13		†KRWE-TV	13
Fontana	KXLA-TV	40	Fontana	KXLA-TV	40	Fontana	KXLA-TV	40
Fresno	KMJ-TV	24	Fresno	KMJ-TV	24	Fresno	KMJ-TV	24
	KFRE-TV	30		KFRE-TV	30		KFRE-TV	30
	KJED-TV	47		KJED-TV	47		KJED-TV	47
	KAIL-TV	53		KAIL-TV	53		KAIL-TV	53
Hanford	KSJV-TV	21	Hanford	KSJV-TV	21	Hanford	KSJV-TV	21
Los Angeles	KNXT-TV	4	Los Angeles	KNXT-TV	4	Los Angeles	KNXT-TV	4
	KNBC-TV	4		KNBC-TV	4		KNBC-TV	4
	KTVA-TV	11		KTVA-TV	11		KTVA-TV	11
	KABC-TV	7		KABC-TV	7		KABC-TV	7
	KHE-TV	9		KHE-TV	9		KHE-TV	9
	KTTV-TV	11		KTTV-TV	11		KTTV-TV	11
	KCOP-TV	13		KCOP-TV	13		KCOP-TV	13
	KWHY-TV	22		KWHY-TV	22		KWHY-TV	22
	KMEX-TV	34		KMEX-TV	34		KMEX-TV	34
	†KGET-TV	28		†KGET-TV	28		†KGET-TV	28
Modesto	KIDC-TV	19	Modesto	KIDC-TV	19	Modesto	KIDC-TV	19
Monterey	KMBY-TV	46	Monterey	KMBY-TV	46	Monterey	KMBY-TV	46
Oakland-San Francisco	KTVU-TV	2	Oakland-San Francisco	KTVU-TV	2	Oakland-San Francisco	KTVU-TV	2
<b>COLORADO</b>			<b>COLORADO</b>			<b>COLORADO</b>		
Colorado Springs	KKTV-TV	11	Colorado Springs	KKTV-TV	11	Colorado Springs	KKTV-TV	11
	KRDO-TV	13		KRDO-TV	13		KRDO-TV	13
Denver	KWGN-TV	2	Denver	KWGN-TV	2	Denver	KWGN-TV	2
	KOA-TV	4		KOA-TV	4		KOA-TV	4
	KLZ-TV	7		KLZ-TV	7		KLZ-TV	7
	KBTN-TV	9		KBTN-TV	9		KBTN-TV	9
	†KRMA-TV	5		†KRMA-TV	5		†KRMA-TV	5
	KREZ-TV	6		KREZ-TV	6		KREZ-TV	6
Durango	KREX-TV	5	Durango	KREX-TV	5	Durango	KREX-TV	5
Grand Junction	KREY-TV	10	Grand Junction	KREY-TV	10	Grand Junction	KREY-TV	10
Montrose	KOAA-TV	5	Montrose	KOAA-TV	5	Montrose	KOAA-TV	5
Pueblo	KOAA-TV	5	Pueblo	KOAA-TV	5	Pueblo	KOAA-TV	5
Sterling	KTVS-TV	3	Sterling	KTVS-TV	3	Sterling	KTVS-TV	3
<b>CONNECTICUT</b>			<b>CONNECTICUT</b>			<b>CONNECTICUT</b>		
Bridgeport	*WFTT-TV	43	Bridgeport	*WFTT-TV	43	Bridgeport	*WFTT-TV	43
	†WEDW-TV	49		†WEDW-TV	49		†WEDW-TV	49
Hartford	WTIC-TV	3	Hartford	WTIC-TV	3	Hartford	WTIC-TV	3
	WHCT-TV	18		WHCT-TV	18		WHCT-TV	18
	†WEDH-TV	24		†WEDH-TV	24		†WEDH-TV	24
	KLUZ-TV	15		KLUZ-TV	15		KLUZ-TV	15
New Britain-Hartford	WHNB-TV	30	New Britain-Hartford	WHNB-TV	30	New Britain-Hartford	WHNB-TV	30
New Haven	WNHC-TV	8	New Haven	WNHC-TV	8	New Haven	WNHC-TV	8
Norwich	†WEDN-TV	53	Norwich	†WEDN-TV	53	Norwich	†WEDN-TV	53
Waterbury	WATR-TV	20	Waterbury	WATR-TV	20	Waterbury	WATR-TV	20
<b>DELAWARE</b>			<b>DELAWARE</b>			<b>DELAWARE</b>		
Wilmington	†WHYY-TV	12	Wilmington	†WHYY-TV	12	Wilmington	†WHYY-TV	12
<b>DISTRICT OF COLUMBIA</b>			<b>DISTRICT OF COLUMBIA</b>			<b>DISTRICT OF COLUMBIA</b>		
Washington	WRC-TV	4	Washington	WRC-TV	4	Washington	WRC-TV	4
	WTG-TV	5		WTG-TV	5		WTG-TV	5
	WMAI-TV	7		WMAI-TV	7		WMAI-TV	7
	WTOP-TV	9		WTOP-TV	9		WTOP-TV	9
	WFAN-TV	14		WFAN-TV	14		WFAN-TV	14
	†WETA-TV	26		†WETA-TV	26		†WETA-TV	26
	WDCATV	20		WDCATV	20		WDCATV	20
	WGSP-TV	50		WGSP-TV	50		WGSP-TV	50
<b>FLORIDA</b>			<b>FLORIDA</b>			<b>FLORIDA</b>		
Clearwater	WJNR-TV	22	Clearwater	WJNR-TV	22	Clearwater	WJNR-TV	22
Daytona Beach-Orlando	WESH-TV	2	Daytona Beach-Orlando	WESH-TV	2	Daytona Beach-Orlando	WESH-TV	2
Ft. Lauderdale	WSMS-TV	51	Ft. Lauderdale	WSMS-TV	51	Ft. Lauderdale	WSMS-TV	51
Ft. Myers	WINK-TV	11	Ft. Myers	WINK-TV	11	Ft. Myers	WINK-TV	11
	WBBH-TV	20		WBBH-TV	20		WBBH-TV	20
Ft. Pierce	WTVX-TV	34	Ft. Pierce	WTVX-TV	34	Ft. Pierce	WTVX-TV	34
Gainesville	†WUFT-TV	5	Gainesville	†WUFT-TV	5	Gainesville	†WUFT-TV	5
Jacksonville	WDIV-TV	3	Jacksonville	WDIV-TV	3	Jacksonville	WDIV-TV	3
	WFGA-TV	12		WFGA-TV	12		WFGA-TV	12
	WJKS-TV	17		WJKS-TV	17		WJKS-TV	17
	†WJCT-TV	7		†WJCT-TV	7		†WJCT-TV	7
	WUMJ-TV	47		WUMJ-TV	47		WUMJ-TV	47
	WTVJ-TV	4		WTVJ-TV	4		WTVJ-TV	4
	WCIX-TV	6		WCIX-TV	6		WCIX-TV	6
	WCKT-TV	7		WCKT-TV	7		WCKT-TV	7
	WLEW-TV	10		WLEW-TV	10		WLEW-TV	10
	†WTHS-TV	2		†WTHS-TV	2		†WTHS-TV	2
	†WSEC-TV	17		†WSEC-TV	17		†WSEC-TV	17
	WAJA-TV	23		WAJA-TV	23		WAJA-TV	23
	WDBO-TV	6		WDBO-TV	6		WDBO-TV	6
	WFTN-TV	9		WFTN-TV	9		WFTN-TV	9
	†WMPF-TV	24		†WMPF-TV	24		†WMPF-TV	24
	WPTV-TV	3		WPTV-TV	3		WPTV-TV	3
Palm Beach	WJHG-TV	7	Palm Beach	WJHG-TV	7	Palm Beach	WJHG-TV	7
Panama City	WEAR-TV	23	Panama City	WEAR-TV	23	Panama City	WEAR-TV	23
Pensacola	†WSRE-TV	3	Pensacola	†WSRE-TV	3	Pensacola	†WSRE-TV	3
<b>GEORGIA</b>			<b>GEORGIA</b>			<b>GEORGIA</b>		
Albany	WALB-TV	10	Albany	WALB-TV	10	Albany	WALB-TV	10
Ashburn	†WJIA-TV	23	Ashburn	†WJIA-TV	23	Ashburn	†WJIA-TV	23
Athens	†WGTW-TV	8	Athens	†WGTW-TV	8	Athens	†WGTW-TV	8
Atlanta	WBSB-TV	2	Atlanta	WBSB-TV	2	Atlanta	WBSB-TV	2
	WAGA-TV	25		WAGA-TV	25		WAGA-TV	25
	WQXI-TV	11		WQXI-TV	11		WQXI-TV	11
	†WETV-TV	30		†WETV-TV	30		†WETV	



# WHITE'S RADIO LOG

Location	C.L.	Chan.
Memphis	WREC-TV	3
	WMCT	5
	WHBO-TV	13
	WKNO-TV	10
Nashville	WSM-TV	4
	WLAC-TV	5
	WMCV	33
	WSIX-TV	8
	WDCN-TV	2
	WJSK	2
<b>TEXAS</b>		
Abilene	KRBC-TV	9
Amarillo	KGNC-TV	4
	KVII-TV	7
	KFDA-TV	10
Austin	KTBC-TV	7
	KHFI-TV	42
Beaumont	KDFM-TV	4
	KBMT	12
Big Spring	KWAB-TV	4
Bryan	KBTX-TV	3
Corpus Christi	KRTV	39
	KZTV	10
Dallas-Fort Worth	KRLD-TV	4
	WFAA-TV	8
	TKERA-TV	13
	KLIF-TV	27
	KMEC-TV	23
El Paso	KROD-TV	4
	KTSM-TV	9
	KELP-TV	13
El Paso-Juarez	XEPM-TV	2
	XEJ-TV	5
Ft. Worth-Dallas	WBTV	3
	KEWT	21
	KTVT	11
Galveston	KVVV-TV	16
Harlingen	KGBT-TV	4

Location	C.L.	Chan.
Houston	KPRC-TV	2
	KHOU-TV	11
	KTRK-TV	13
	KHTV	39
	KVRL	26
	TKUHT	8
	KHER	16
Longview	KGNS-TV	12
Laredo	KVTV	12
Lubbock	KCBD-TV	11
	KLBB-TV	13
	KSEL-TV	28
	TKXT-TV	5
	KKBC-TV	34
	KTRV-TV	9
Lufkin	KMID-TV	2
Midland-Odessa	KVKM-TV	9
Monahans	KOSA-TV	7
Odessa		
Port Arthur	KJAC-TV	4
Beaumont	TKRET-TV	23
Richardson	KACB-TV	3
San Angelo	KCTV	8
San Antonio	WDAI-TV	4
	KENS-TV	5
	KSAT-TV	12
	KWEX-TV	41
San Antonio-Austin	TKLRN-TV	9
Sweetwater-Abilene	KTXS-TV	12
Temple-Waco	KCCN-TV	12
Taylor-Longview	KTLV	7
Waco	KWTX-TV	10
Weslaco	KRGV-TV	5
Wichita Falls	KFDX-TV	3
	KAUZ-TV	6
<b>UTAH</b>		
Logan	TKUSU-TV	12
Ogden	TKOET	9
	TKWCS-TV	18
Provo	TKBYU-TV	11
Salt Lake City	KUTV	2
	KCPX-TV	4
	KSL-TV	7
	TKUED	5
<b>VERMONT</b>		
Burlington	WCAX-TV	3
	TKWTK	33
	WVNY-TV	22
	TKVVR	28
Rutland	WVTB	20
St. Johnsbury	TKWTA	41
Windsor		

Location	C.L.	Chan.
<b>VIRGINIA</b>		
Bristol	WCYB-TV	5
Hampton-Norfolk	WVEC-TV	13
	TKWRO-TV	15
Harrisonburg	WSVA-TV	3
Lynchburg-Roanoke	WLVA-TV	13
Norfolk	WVAR-TV	3
Petersburg	WXEX-TV	8
Richmond	TKWYAH-TV	27
Portsmouth	WAVY-TV	10
Portsmouth-Norfolk	TKWTVR-TV	6
Richmond	TKWWTB-TV	23
	TKWCVS-TV	23
	TKWCV	57
Roanoke	TKWBR-TV	10
	TKWDBJ-TV	7
	TKWLSL-TV	10
	TKWRF-TV	27
	TKWVPT	51
Staunton		
<b>WASHINGTON</b>		
Bellingham	KVOS-TV	12
Pasco	KEPR-TV	19
Pullman	TKWSC-TV	10
Richland	KNDU	25
Seattle	KOMO-TV	4
	KING-TV	5
	KIRO-TV	7
	TKCTS-TV	9
	KTFL	22
Spokane	KREM-TV	2
	KXLY-TV	4
	KHQ-TV	6
	TKSPS-TV	7
	TKNT-TV	11
Tacoma-Seattle	KLAY-TV	20
Tacoma	TKPEC-TV	56
	TKTPS	62
	KNDU	23
Yakima	KIMA-TV	29
	TKYVE-TV	47
<b>WEST VIRGINIA</b>		
Bluefield	WHIS-TV	6
Charleston	WCBS-TV	8
	TKWTP-TV	23
Clarksburg	WKOH-TV	12
Huntington	TKWML-TV	67
Huntington-Charleston	WSAZ-TV	3
	TKWHTN-TV	13

Location	C.L.	Chan.
Oak Hill	WDAY-TV	4
Parkersburg-		
Marietta, O.	WTAP-TV	15
Weston	WDTV	5
Wheeling		
Steubenville, O	WTRF-TV	7
<b>WISCONSIN</b>		
Eau Claire	WEAU-TV	13
Fond du Lac	KFIZ-TV	54
Green Bay	WBTV	27
	WFRV-TV	5
	WLUK-TV	11
	WKBT	12
	WXOW-TV	25
	WISC-TV	3
	WMTV	15
	WKOW-TV	27
	TKWHA-TV	21
	TKWMTJ-TV	4
	TKWITI-TV	6
	TKWISN-TV	12
	TKWVTV	18
	TKWMSV	36
	TKWMT	12
LaCrosse	WAO-TV	7
Madison	WSAU-TV	7
	WAOV-TV	9
<b>WYOMING</b>		
Casper	KTWO-TV	2
Cheyenne	KFCB-TV	5
Riverton	KWRB-TV	10
<b>GUAM</b>		
Agana	KUAM-TV	8
<b>PUERTO RICO</b>		
Aquadilla	WOLE-TV	12
Caguas	WKBA-TV	11
Mayaguez	WORA-TV	5
Ponce	TKWIPM-TV	3
	TKWRK-TV	7
	TKWSUR-TV	9
	TKWPSJ	14
San Juan	WKAQ-TV	2
	TKWKA	4
	TKWPR-TV	6
	TKWTSJ	18
	TKWITA-TV	30
<b>VIRGIN ISLANDS</b>		
Charlotte Amalie	WBNN-TV	10
Christiansted	WSVI	8

## Canadian Television Stations by Cities

Canadian stations listed alphabetically by cities. Abbreviations: Chan., channel; C.L., call letters.

Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.	Location	C.L.	Chan.
Adams Hill, B.C.	CFRC-TV	8	Carleton, Que.	CHAU-TV	5	Falkland, B.C.	CFWS-TV	1	Koremeos, B.C.	CHKC-TV	1
Altheane, Sask.	CKBI-TV	1	Caryle Lake, Sask.	CFSS-TV	7	Fisher Branch, Man.	CBWT	10	Kildara, B.C.	CFTK-TV	4
Amherst, N.S.	CJCH-TV	3	Castlegar, B.C.	CBUAT-2	3	Fin Flon, Man.	CBWBT	10	Kingston, Ont.	CKWS-TV	11
Antigonish, N.S.	CJCB-TV	2	Caunsantall, Que.	CKBL-TV	5	Fort Francis, Ont.	CBWCT	5	Kitchener, Ont.	CKGO-TV	18
Argenta, Nfld.	CJXK-TV	2	Causton, B.C.	CHCK-TV	3	Fort Fraser, B.C.	CKFP-TV	3	Kokish, B.C.	CFB-TV	2
Ashcroft, B.C.	CFCR-TV	2	Celista, B.C.	CHBC-TV	6	Foxwarren, Man.	CKX-TV	11	Labrador City, Nfld.	CJCL-TV	13
Ashmont, Alta.	CFRN-TV	4	Chandler, Que.	CHAU-TV	4	Gaspe, Que.	CHAU-TV	6	Lac du Bonnet, Man.	CBXT-2	4
Athabasca, Alta.	CBXT-1	8	Chapleau, Ont.	CFCL-TV	6	Gaspe West, Que. (Becheuraise Mountain)	CFGW-TV	1	Lac la Biche, Alta.	CBWT-5	10
Atikokan, Ont.	CBWCT-1	7	Charlottetown, P.E.I.	CFCY-TV	13	Geraldton, Ont.	CBLAT	13	Lake Louise, Alta.	CFLL-TV	6
Aveia, B.C.	CFCR-TV	13	Cherryville, B.C.	CJWR-TV	1	Goose Bay, Nfld.	CFLA-TV	2	L'Anse a Valleeau, Que.	CHAU-TV	9
Baldy Mountain, Man.	CKSS-TV	8	Chicooutimi, P.Q.	CJPM-TV	6	Grand Bank, Nfld.	CJON-TV	10	Lawn, Nfld.	CJOX-TV	7
Baio St. Paul, Que.	CKRT-TV	1	Chilliwack, B.C.	CHAN-TV	11	Grand Falls, Nfld.	CBNAT	11	Lothbridge, Alta.	CJLH-TV	7
Baneroft, Ont.	CHEX-TV	2	Cheticamp, N.S.	CBFCT	10	Grand Falls, Nfld.	CJON-TV	4	Lillooet, B.C.	CFCR-TV	11
Banff, Alta.	CKRD-TV	2	Chicoutimi, Que.	CKRS-TV	2	Grand Forks, B.C.	CBUAT-5	5	Liverpool, N.S.	CBHT-1	12
	CFCN-TV	2	Churchill, Man.	CHGH-TV	4	Grande Prairie, Alta.	CBXAT	10	Lloydminster, Alta.	CKSA-TV	2
	CHCT-TV	2	Clearwater, B.C.	CFCR-TV	10	Grande Vallee	CKBL-TV	3	London, Ont.	CFPL-TV	10
Barrie, Ont.	CKVR-TV	3	Clinton, B.C.	CFGR-TV	4	Greenwater Lake, Sask.	CKBI-TV	3	Lookout Ridge, Near	Chilliwack, B.C.	CBUT-2
Bayview, N.S.	CJCH-TV	2	Cloridorme, Que.	CHAU-TV	8	Haliburton, Ont.	CKVR-TV	3	Lumbly, B.C.	CHID-TV	1
Big River, Sask.	CKBI-TV	5	Coleman, Alta.	CJLH-TV	12	Halifax, N.S.	CBHT	3	Lynn Lake, Man.	CBTA-TV	8
Bon-Accord, N.B.	CHSJ-TV	1	Corner Brook, Nfld.	CBYT	5	Halifax, N.S.	CJCH-TV	12	Mabel Lake, B.C.	CHPP-TV	1
Bonaville, Nfld.	CJON-TV	2	Corner Brook, Nfld.	CBYT	5	Hamilton, Ont.	CHCH-TV	11	Magdalen Islands, Que.	CBFCT-1	12
Bonnyville, Alta.	CKSA-TV	2	Cornwall, Ont.	CJSS-TV	10	Hearst, Ont.	CBFOT-2	7	Malakwa, B.C.	CFPI-TV	5
Boss Mountain, B.C.	CFCR-TV	16	Coronation, Alta.	CKRD-TV	10	High Prairie, Alta.	CBXAT-2	4	Malartic, Que.	CFCL-TV	5
Boston Bar, B.C.	CFCR-TV	9	Colgate, Saskatchewan	CKCK-TV	1	Hinton, Alta.	CBXT-3	8	Manitouagan, Que.	CKHQ-TV	10
Bowen Island, B.C.	CBUT-4	13	Courtenay, B.C.	CBUT-1	12	Hixon, B.C.	CFPK-TV	10	Marquis, Sask.	CKM-TV	7
			Cranbrook, B.C.	CBUST	10	Houston, B.C.	CFTK-TV	10	Marystown, Nfld.	CBNT-3	5
			Crawford Bay, B.C.	CBUAT-3	5	Hudson Hope, B.C.	CJDC-TV	11	Matagami, Que.	CKRN-TV	4
			Creton, B.C.	CHMS-TV	1	Huntsville, Ont.	CKVR-TV	2	Matane, Que.	CKBL-TV	9
Bralorne, B.C.	CFCR-TV	15	Dawson Creek, B.C.	CJDC-TV	5	Invermere, B.C.	CFWL-TV	1	Meadow Lake, Sask.	CKBL-TV	6
Brandon, Man.	CKX-TV	5	Deer Lake, Nfld.	CBYAT	12	Inverness, N.S.	CJCB-TV	1			
Brooks, Alta.	CFCN-TV	3	Drumheller, Alta.	CFCN-TV	12	Jasper, Alta.	CBXT-4	5			
Bullhead Mt., B.C.	CJDC-TV	2	Drumheller, Alta.	CFCN-TV	12	Jonquiere, Que.	CKRS-TV	12			
Burns, Alta.	CJLH-TV	3	Dryden, Ont.	CHCT-TV	1	Jubilee Mountain, B.C.	CFWL-TV	2			
Burnaby, B.C.	CHAN-TV	1	Eastend, Sask.	CBWDT	9	Juskatla, B.C.	CFTK-TV	2			
Burns Lake, B.C.	CFTK-TV	3	Edmonton, Alta.	CBXT	5	Kamloops, B.C.	CFCR-TV	4			
Cabano, P.Q.	CFKN-TV	4	Edmonton, Alta.	CFRN-TV	3	Kapuskasung, Ont.	CBFOT-1	12			
Calgary, Alta.	CFRN-TV	4	Edmundston, N.B.	CJBR-TV	13	Kapuskasung, Ont.	CFCL-TV	3			
Calgary, Alta.	CHCT-TV	2	Elliott Lake, Ont.	CBFST-3	12	Kearns, Ont.	CFCL-TV	2			
Callander, Ont.	CFCH-TV	7	Elliott Lake, Ont.	CKSO-TV	1	Kemano, B.C.	CFTK-TV	5			
Campbellton, N.B.	CKCD-TV	10	Enderby, B.C.	CFEN-TV	5	Kelowna, B.C.	CHBC-TV	2			
Camp Woss, B.C.	CFNV-TV	1	Enderby, B.C.	CFEN-TV	5	Kenora, Ont.	CBWAT	8			
Canning, N.S.	CJCH-TV	10									
Cape, B.C.	CHBC-TV	8									
Canoe Mountain, Near											
Valemont, B.C.	CFCR-TV	14									



# WHITE'S RADIO LOG

kHz	Wave Length	W.P.
<b>950—315.6</b>		
CHER Sydney, N.S.	10,000	
CKBB Barrie, Ont.	10,000d 2,500n	
CKNB Campbellton, N.B.	10,000d 1,000n	
<b>960—312.3</b>		
CFAC Calgary, Alta.	10,000	
CHNS Halifax, N.S.	10,000	
CKWS Kingston, Ont.	10,000d 5,000n	
<b>970—309.1</b>		
CKCH Hull, Que.	5,000	
CBZ Fredericton, N.B.	10,000	
<b>980—305.9</b>		
CBV Quebec, Que.	5,000	
CFPL London, Ontario	10,000d 5,000n	
CHEX Peterborough, Ont.	10,000d 5,000n	
CKGM Montreal, Que.	10,000	
CKNW New Westminster, B.C.	50,000	
CKRM Regina, Sask.	10,000d 5,000n	
<b>990—302.8</b>		
CBW Winnipeg, Man.	50,000	
CBY Corner Brook, Nfld.	10,000	
<b>1000—299.8</b>		
CKBW Bridgewater, N.S.	10,000	
<b>1010—296.9</b>		
CBR Calgary, Alta.	50,000	
CFRB Toronto, Ont.	50,000	
<b>1050—285.5</b>		
CFGP Grande Prairie, Alta.	10,000	
CHUM Toronto, Ont.	50,000	
CJIC Sault Ste. Marie, Ont.	10,000d 2,500n	
CJNB North Battleford, Sask.	10,000	
CKSB St. Boniface, Man.	10,000	
<b>1060—282.8</b>		
CFGN Calgary, Alta.	50,000	
CJLR Quebec, Que.	10,000	
<b>1070—280.2</b>		
CBA Sackville, N.B.	50,000	
CFAX Victoria, B.C.	1,000	
CHOK Sarnia, Ont.	5,000d 1,000n	
<b>1080—277.6</b>		
CKSA Lloydminster, Alta.	10,000	

kHz	Wave Length	W.P.
<b>1090—275.1</b>		
CHFC Lethbridge, Alta.	5,000	
CHRS St. Jean, Que.	10,000d	
<b>1110—272.6</b>		
CBQ Saint John, N.B.	10,000	
CFML Cornwall, Ont.	1,000	
CFTJ Galt, Ont.	250d	
CHQT Edmonton, Alta.	10,000	
<b>1130—265.3</b>		
CKWX Vancouver, B.C.	50,000	
<b>1140—263.0</b>		
CBI Sydney, N.S.	10,000	
CKXL Calgary, Alta.	10,000	
<b>1150—260.7</b>		
CHSJ Saint John, N.B.	10,000d 5,000n	
CKOC Hamilton, Ont.	10,000	
CKTR Trois-Rivières, Que.	10,000d 1,000n	
CKX Brandon, Man.	10,000d 1,000n	
<b>1170—256.3</b>		
CFNS Saskatoon, Sask.	1,000	
<b>1220—245.8</b>		
CHSC St. Catherines, Ont.	1,000d 500n	
CJOC Lethbridge, Alta.	10,000d 5,000n	
CJRL Kenora, Ont.	1,000	
CJSS Cornwall, Ontario	1,000	
CKDA Victoria, B.C.	10,000	
CKCW Moncton, N.B.	10,000	
CKSM Shawinigan, Que.	1,000	
<b>1230—243.8</b>		
CBDR Schefferville, Que.	250	
CFBV Smithers, B.C.	1,000d 250n	
CFGR Gravelbourg, Sask.	250n	
CFLK Kapuskasing, Ont.	100	
CFPA Port Arthur, Ont.	1,000d 250n	
CHFC Churchill, Man.	250	
CHVD Dolbeau, P.Q.	1,000d 250n	
CJSA Ste. Agathes des Monts, Que.	1,000d 250n	
CJTT New Liskeard, Ont.	1,000d 250n	
CKLD Thetford Mines, Que.	1,000d 250n	
CKMP Midland, Ont.	1,000d 250n	
CKTK Kitimat, B.C.	1,000d 250n	
VOAR St. John's, Nfld.	250n 100	
<b>1240—241.8</b>		
CFLM La Tuque, Que.	1,000d 250n	
CFLS Levis, P.Q.	250	
CFVR Abbotsford, B.C.	1,000d 250n	
CJAF Cabano, Que.	250	
CJAV Port Alberni, B.C.	1,000d 250n	

kHz	Wave Length	W.P.
CJCS Stratford	500d 250n	
CJRW Summerside, P.E.I.	250	
CJWA Wawa, Ont.	1,000d 250n	
CKWL Williams Lake, B.C.	250	
CKBS St. Hyacinthe, Que.	250	
CKLS LaSalle, Que.	250	
CKOO Osweyos, B.C.	1,000d 250n	
<b>1250—239.9</b>		
CBQF Ottawa, Ont.	10,000	
CHWO Oakville, Ont.	1,000d	
CHSN Steinhilf, Man.	10,000	
CKBL Matane, Que.	10,000d 5,000n	
CKOM Saskatoon, Sask.	10,000	
<b>1260—238.0</b>		
CFRN Edmonton, Alta.	50,000	
<b>1270—263.1</b>		
CFGT Alma, Que.	1,000	
CHAT Medicine Hat, Alta.	10,000	
CHWK Chilliwack, B.C.	10,000	
CJCB Sydney, N.S.	10,000	
<b>1280—234.2</b>		
CHIQ Hamilton, Ont.	10,000d 5,000n	
CHQB Powell River, B.C.	1,000	
CJMS Montreal, Que.	50,000	
CJSL Estevan, Sask.	1,000	
CKCV Quebec, Que.	10,000d 5,000n	
<b>1290—232.4</b>		
CFAM Altona, Man.	10,000d	
CJOE London, Ont.	10,000	
<b>1300—230.6</b>		
CBAF Moncton, N.B.	5,000	
CJME Regina, Sask.	1,000	
<b>1310—228.9</b>		
CFGM Richmond Hill, Ont.	10,000d	
CHGB Ste-Anne-de-la-Pocatière, Que.	2,500n	
CKOY Ottawa, Ont.	5,000	
<b>1320—227.1</b>		
CHQM Vancouver, B.C.	50,000	
CJSO Sorel, Que.	10,000d 5,000n	
CKEC New Glasgow, N.S.	5,000	
CKKW Kitchener, Ont.	1,000	
<b>1330—225.4</b>		
CKKR Rosetown, Sask.	10,000	
<b>1340—223.7</b>		
CFGB Goose Bay, Nfld.	1,000	
CFLH Hearst, Ont.	100	
CFSL Weyburn, Sask.	1,000d 250n	
CFYK Yellowknife, N.W.T.	1,000	
CHAD Amos, Que.	250	
CJLS Yarmouth, N.S.	250	
CFOM Ville Vanier, Que.	250	
CKAR-1 Parry Sound, Ont.	250	

kHz	Wave Length	W.P.
CKCR Revelstoke, B.C.	250	
CKFL Lac Megantic, Que.	250	
CKNR Elliott Lake, Ont.	250	
CKOX Woodstock, Ont.	1,000d 250n	
<b>1350—222.1</b>		
CHOV Pembroke, Ont.	1,000	
CJDC Dawson Creek, B.C.	1,000	
CJLM Joliette, Que.	1,000	
CKEN Kentville, N.S.	1,000	
CKLB Oshawa, Ont.	10,000d 5,000n	
<b>1360—220.4</b>		
CKBC Bathurst, N.B.	10,000	
<b>1370—218.8</b>		
CFLV Valleyfield, Que.	1,000	
<b>1380—217.3</b>		
CFDA Victoriaville, Que.	1,000	
CKLC Kingston, Ont.	10,000d 5,000n	
CKPC Brantford, Ont.	10,000	
<b>1390—215.7</b>		
CHOO Ajax, Ont.	10,000	
CKKG Nelson, B.C.	1,000	
<b>1400—214.2</b>		
CFLD Burns Lake, B.C.	250	
CJFP Rivière du Loup, Que.	10,000d 250n	
CKCB Collingwood, Ont.	250	
CKRN Rouyn, Que.	250	
CKSW Swift Current, Sask.	1,000d 250n	
<b>1410—212.6</b>		
CFMB Montreal, Que.	10,000	
CFUN Vancouver, B.C.	10,000	
CKSL London, Ont.	10,000	
<b>1420—211.1</b>		
CJMT Chicoutimi, Que.	1,000	
CJVR Melfort, Sask.	10,000	
CKPT Peterborough, Ont.	5,000	
<b>1430—209.7</b>		
CKFH Toronto, Ont.	10,000	
<b>1440—208.2</b>		
CFCP Courtenay, B.C.	1,000	
CKPM Ottawa, Ont.	10,000	
<b>1450—206.8</b>		
CBG Gander, Nfld.	250	
CFAB Windsor, N.S.	250	
CFJR Brockville, Ont.	1,000d 250n	
CHEF Granby, Que.	1,000d 250n	
CHRT Rivière du Loup, P.Q.	250	
CHUC Cobourg, Ont.	1,000	
CJBM Gaspé, Que.	1,000d 250n	
<b>1460—205.4</b>		
CJOY Guelph, Ont.	10,000d 5,000n	
CKRB Ville St. Georges, Que.	10,000d 5,000n	

## A THANK YOU NOTE FROM THE EDITORS

Thank you! The Editors of RADIO-TV EXPERIMENTER would like to thank all readers who offered information on station changes, additions and deletions during the past few months. Though many of the letters overlapped, each aided us considerably in making the task of keeping White's Radio Log as current as possible at

press time. If we left your name out, please forgive us!

Jean Pierre Bedard, Charlesbourg, Quebec  
William Boerner, Massillon, Ohio  
Egan Brian  
James E. Carter III, Augusta, Ga.  
Don Chalupiak, Regina, Sask.  
Jason Farlam, Capetown, Ont.  
Willis Geo. Frahm, Boise, Ida.  
W. Ganderath, Albany, N.Y.  
W. R. Garrett, Augusta, Ga.  
Bill Johnson, N. Canton, Ohio

Ken Knecht, Oneonta, N.Y.  
Tom Kneitel, New York, N.Y.  
Frank LaBelle, Montreal, Que.  
Robert Locke, Winnipeg, Manitoba  
Grant MacDonald, Islington, Ont.  
Robert D. McAllister, Roseland, B.C.  
O. E. Millet, Toronto, Ont.  
Bruce Parker, Swissvale, Pa.  
Marke Parse, N. Surrey, B.C.  
Richard Ringenback, Fair Lawn, N.J.  
John Robertson, Port Huron, Mich.  
G. Sienkiewicz, Brooklyn, N.Y.  
Ken Skene, Port Arthur, Ont.

kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.	kHz	Wave Length	W.P.
<b>1470—204.0</b>			CHYM Kitchener, Ont.	10,000d		CJRS Sherbrooke, P.Q.	10,000		<b>1570—191.1</b>		
CFOX Pointe Claire, Que.	10,000d		CJSN Shaunavon, Sask.	5,000n		CKOT Tillsonburg, Ont.	1,000		CFOR Orillia, Ont.	10,000d	
CFRW Winnipeg, Man.	5,000n		CKAD Middleton, N.S.	1,000d					CHUB Nanaimo, B.C.	1,000n	
CHOW Welland, Ont.	500n		CKBM Montmagny, Quo.	250n		<b>1540—195.0</b>			CKLM Montreal, Que.	50,000	
<b>1480—202.6</b>			CFWB Campbell River, B.C.	250		CHIN Toronto, Ont.	50,000		<b>1580—189.2</b>		
CHRD Drummondville, Que.	10,000		<b>1500—199.9</b>			<b>1550—193.5</b>			CBJ Chicoutimi, Que.	10,000	
<b>1490—201.2</b>			CKAY Ducan, B.C.	1,000		CBE Windsor, Ont.	10,000		<b>1600—187.5</b>		
CFMR Fort Simpson, N.W.T.	25		<b>1510—199.1</b>			<b>1560—192.3</b>			CJRN Niagara Falls, Ont.	10,000	
CFRC Kingston, Ont.	100					CFRS Simcoe, Ont.	250d				

## World-Wide Shortwave Stations

■ It's quizeroo time again gang! Just rip off the top of your favorite receiver and rush right down to your local grocer for a case of Ovaltine to give you the strength to try for all of these stations in our contest-without-prizes. Scoring details later, in the mean time, see what you can do with these:

1. A new station! It's *Radio Atenea*, San Jose, C.R. Although they have been broadcasting for 33 years on the broadcast band, they are now firing up a shortwave rig. Watch for them testing and broadcasting on 6150 kHz at about 0600 GMT.

2. Red Cross to the rescue. Yes, the International Red Cross is again starting their annual transmitter tests from Switzerland on 7210 kHz. Dates for the tests are July 21, 23, 25 and Sept. 22, 24, 26. Schedule is 0600, 1130, 1700, and 2300 GMT. Hear any 6 transmissions, report them, and receive a special certificate. Send those reports to: International Committee of the Red Cross, 7 Ave. de la Paix, 1211 Geneva 1, Switzerland.

3. Shades of Taras Bulba, the Mongols ride again! This time they're doing it electronically via Radio Ulan Bator on shortwave. Watch for their English programs daily at 1220 to 1250 GMT on 7345 and 9540 kHz, also 2200 to 2230 GMT on 11810 and 11850 kHz.

4. Up 'n down the ol' Mississippi is the theme here today. Many listeners didn't know that many of the vessels plying the Mississippi can be heard on a special channel, namely 2782 kHz. Listen in this evening after dark. How many ship and shore stations can you log in 30 minutes?

5. Dive into the Maldives, a group of small islands which surely you haven't yet heard. Listen for the *Maldiv Islands Broadcasting System*, in Male, on 7150 kHz at 0100 and 0900, 6150 kHz at 0300 and 1100, 9538 kHz at 0700, 3331 kHz at 1300, and 4740 kHz at 1515 GMT.

6. Have you heard the brand new 300

kw station calling itself *Bonaire Noord*? It's *Radio Nederlands* own relay station in the Caribbean and has been testing on 6085, 9590, 11730, 15320, and 17810 kHz. It's located on the island of Bonaire in the Netherlands Antilles.

7. Bootleg antics are on the rise again, with the newest addition to the shortwave ranks being *Radio Euro Weekend* which runs from about 1530 GMT on 6040 kHz. It's located in Holland or Germany.

8. Here's a wierdie, station OE3XNB of the *Niederosterreichischer Landesfunk*, Vienna, Austria. They have a DX program for hams every Sunday at 1000 GMT on 7040 GMT. Can you hear this one? *Can you spell it?*

9. That Caribbean aero channel of 6567 kHz has been quite active of late and you might wish to see how many land stations and aircraft you can log in a 30 minute period some evening. The planes include some really exotic callsigns from the smaller banana countries.

10. Leaving the Caribbean area, we fly to Greenland to see about hearing *Greenland Radio*. They are being reported from 2030 to 0230 GMT on 3990, 5960, and 5980 kHz, daily.

**Scoring** 10 points is all you get for each

### This Issue's Shortwave Contributors

Max Reynolds, Urbana, Ill., Robert L. Winslow, Sanford, Me., Howard Moskowitz, S. Charleston, W. Va., Billy Jarmel, N. Canton, Ohio, Peter Kelley, Chehalis, Wash., Gladys Sienkiewicz, Brooklyn, N. Y., Tom Kneitel, New York, N. Y., Al Eugston, Vallejo, Calif., Jose Melendez, Bogota, Colombia, Fred L. Martin III, APO San Francisco, Gary Ferguson, Versailles, Ky., Michael H. Melton, Homestead, Fla., Rudy Questel, Beaumont, Tex., Albert Vitale, Jr., Sanford N. C., Bob Lebourget, Montreal, Que., Warren Matthews, Nashville, Tenn., Willard Hopkins, Lacochee, Fla., Flo Stokes, Chicago, Ill., Mike McReynolds, Vancouver, B.C., Troy Norwood, Ashtabula, Ohio

# WHITE'S RADIO LOG

question, except 4 and 9, which pile up 1 point per station logged. Less than 40 total, not so hot; 40 to 49, you're getting warm;

50 to 59, you show promise; 60 to 75, very good; 75 to 85, excellent; above 85, you get the gold medal!

kHz	Call	Station Name	Location	GMT
<b>90-Meter Band—3200 to 3400 kHz</b>				
3265	ZFY	R. Demerara	Georgetown, Guyana	0205
3280	—	W. Indies BC	St. Georges, Grenada	2315
3365	HIRL	—	Santo Domingo, D.R.	0300
3986	—	Nigerian R.	Lagos, Nigeria	2230
3990	—	V. America	Monrovia, Liberia	2300

kHz	Call	Station Name	Location	GMT
<b>60-Meter Band—4750 to 5060 kHz</b>				
4770	ELWA	R. Village	Monrovia, Liberia	2230
4820	HRVC	—	Tegucigalpa, Honduras	0400
4890	—	R. Senegal	Dakar, Senegal	0610
4915	—	R. Ghana	Accra, Ghana	0600
4960	YVOA	R. Sucre	Cumana, Venez.	0145
4990	OAZ4C	R. Atlanta	Lima, Peru	0320
5000	WWV	N. Bureau Stds.	Ft. Collins, Colo.	2245
5015	—	W. Indies BC	St. Georges, Grenada	2240
5040	XZK	Burmese BC	Ragoon, Burma	1130
5045	—	R. Imperial	Petropolis, Brazil	0840
5047	—	R. Lome	Lome, Togo	0600
—	—	V. Indonesia	Jogjakarta, Indonesia	1130
5050	—	Nigerian R.	Lagos, Nigeria	2215

kHz	Call	Station Name	Location	GMT
<b>49-Meter Band—5950 to 6200 kHz</b>				
5970	—	R. Canada	Montreal, Que.	0845
6005	CFCX	R. Canada	Toronto, Ont.	1530
6070	CFRX	R. Canada	Toronto, Canada	1715
6095	—	R. South Africa	Johannesburg, S. Afr.	0530
6120	4VE	V. West Indies	Cap Haitien, Haiti	0230
6130	CHNX	Halifax BC	Halifax, N.C.	0930
6160	HJKJ	—	Bogota, Colombia	0430
6210	ZAA	R. Tirana	Tirana, Albania	0345

kHz	Call	Station Name	Location	GMT
<b>41-Meter Band—7100 to 7300 kHz</b>				
7125	—	R. Warsaw	Warsaw, Poland	0315
7190	VLK	R. Australia	Melbourne, Austral.	1130
7195	—	NHK	Tokyo, Japan	0930
7245	OEI	Austrian BC	Vienna, Austria	0535
7270	—	R. RSA	Johannesburg, S. Africa	0530
7290	—	V. Ethiopia	Addis Ababa, Eth.	0340
9009	4XB3I	Kol Israel	Tel Aviv, Israel	2100
9360	—	R. Nacional	Madrid, Spain	0210
9410	—	BBC	London, England	2210

kHz	Call	Station Name	Location	GMT
<b>31-Meter Band—9500 to 9775 kHz</b>				
9505	ZAA	R. Tirana	Tirana, Albania	0140
9535	HER	Swiss BC	Berne, Switz.	0140
9545	DMQ9	Deutsche Welle	Cologne, W. Germ.	2230
—	—	R. Ghana	Accra, Ghana	2100
9560	CE956	R. Portales	Santiago, Chile	0520
—	VLK	R. Australia	Melbourne, Austral.	1110
9575	—	RAI	Rome, Italy	2245
9578	CE956	R. Portales	Santiago, Chile	0710
9580	—	BBC	London, Engl.	2310
—	VLK	R. Australia	Melbourne, Austr.	0900
9585	—	V. West	Lisbon, Port.	2210
9590	—	R. Bucharest	Bucharest, Rumania	0200
—	—	R. Pres. Balmaceda	Santiago, Chile	1030
9600	XEYU	R. Universidad	Mexico DF, Mex.	1515
9615	ORU	V. Friendship	Brussels, Belg.	2245
9625	OAX8K	R. Atlantidos	Iquitos, Peru	0400
—	—	Canadian BC	Montreal, Que.	0845
9635	—	R. Aparecida	Aparecida, Braz.	0945
9640	DMQ9	Deutsche Welle	Cologne, W. Germ.	0145

kHz	Call	Station Name	Location	GMT
9655	OAX9G	R. Norte Peruana	Chachapoyas, Peru	0440
9665	—	R. Nacional Brasilia	Brasilia, Brazil	0910
9700	PRL7	R. Nacional	Rio de Janeiro, Braz.	0900
9705	—	R. RSA	Johannesburg, S. Afr.	0200
9760	—	R. Accra	Accra, Ghana	2100
—	—	R. Nacional	Madrid, Spain	2100
9770	—	R. Sofia	Sofia, Bulgaria	0015
—	4VEH	V. Evangelique	Cap Haitien, Haiti	1400
—	OEI	Viennese R.	Vienna, Austria	0200
10000	WWV	N. Bureau Stds.	Ft. Collins, Colo.	2105

kHz	Call	Station Name	Location	GMT
<b>25-Meter Band—11700 to 11975 kHz</b>				
11705	—	R. Sweden	Stockholm, Sweden	2250
11710	VLK	R. Australia	Melbourne, Austral.	1110
11740	—	R. Rodina	Rodina, USSR	0800
11760	—	R. Habana	Habana, Cuba	1630
11770	—	R. Monagas	Caracas, Venez.	1530
11775	—	Swiss BC	Berne, Switz.	0345
11790	—	AFRTS	Delano, Calif.	2345
11795	DMQ11	Deutsche Welle	Cologne, W. Germ.	0615
11800	—	V. Ceylon	Colombo, Ceylon	1200
—	—	R. Nacional	Madrid, Spain	2000
11805	—	R. Sweden	Stockholm, Sweden	2345
—	—	R. Globo	Rio de Janeiro, Brazil	0900
11810	VUD	All India R.	Delhi, India	1400
11825	ZYK32	R. Jornal do Comercio	Recife, Brazil	0040
11860	—	R. Moscow	Moscow, USSR	0450
11870	—	R. Moscow	Moscow, USSR	2315
11875	—	R. RSA	Johannesburg, S. Afr.	2200
11880	VLK	R. Australia	Melbourne, Austral.	1140
11890	—	V. America	Greenville, N.C.	2400
11895	HVJ	Vatican R.	Vatican City	0045
11900	—	R. Moscow	Moscow, USSR	2345
11915	HCJB	V. Andes	Quito, Ecuador	0210
11945	DMQ11	Deutsche Welle	Cologne, W. Germ.	0345
11990	—	R. Prague	Prague, Czech.	1800
15000	WWVH	N. Bur. Standards	Mau, Hawaii	1755
15050	—	R. Peking	Peking, China	2315

kHz	Call	Station Name	Location	GMT
<b>19-Meter Band—15100 to 15450 kHz</b>				
15100	—	West Indies BC	St. Georges, Grenada	2330
15115	HCJB	V. Andes	Quito, Ecuador	0600
15130	WNYW	R. N.Y. Worldwide	New York, N.Y.	2325
15140	—	BBC	London, England	2330
—	—	R. Berlin Int'l.	Berlin, E. Germ.	0330
15150	—	R. Moscow	Moscow, USSR	0440
—	CEI515	R. Corporacion	Santiago, Chile	0210
15160	—	Turkish R.	Ankara, Turkey	2215
15165	—	R. Damascus	Damascus, Syria	2020
15185	—	Vatican R.	Vatican City	1930
15220	—	R. RSA	Johannesburg, S. Afr.	2330
15235	VUD	All India R.	Delhi, India	2300
15255	—	Nigerian BC	Lagos, Nigeria	2130
15260	—	BBC	Ascension I.	2115
15275	4VEH	V. Evangelique	Cap Haitien, Haiti	2330
15300	DZH9	Call of Orient	Manila, P.I.	2400
15305	HER	Swiss BC	Berne, Switz.	0015
15315	—	R. Pakistan	Pakistan	1100
—	DMQ15	Deutsche Welle	Cologne, W. Germ.	1100
15325	HCJB	V. Andes	Quito, Ecuador	2335
15350	—	R. Moscow	Moscow, USSR	1915
—	—	BBC	London, England	2300
15380	—	R. Bucharest	Bucharest, Rumania	0215
15400	—	RAI	Rome, Italy	1845
15410	ETLF	R. V. Gospel	Addis Ababa, Ethiopia	1330
15430	—	V. Free Korea	Seoul, Korea	0330
15445	—	R. Nacional	Rio de Janeiro, Brazil	2330

kHz	Call	Station Name	Location	GMT
15520	—	R. Pakistan	Karachi, Pakistan	0200

### 16-Meter Band—17700 to 17900 kHz

17720	BED39	V. Free China	Taipei, Formosa	0300
17785	—	R. Japan	Tokyo, Japan	0215
17805	—	R. RSA	Johannesburg, S. Afr.	2130
17820	VLK	R. Australia	Melbourne, Australia	0350
17825	—	R. Japan	Tokyo, Japan	0200
17830	HEU	Swiss BC	Berne, Switz.	2330
17840	VLK	R. Australia	Melbourne, Austral.	0340
17845	—	R. Pakistan	Karachi, Pakistan	1345

kHz	Call	Station Name	Location	GMT
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### 13-Meter Band—21450 to 21750 kHz

21450	—	R. Prague	Prague, Czech.	1720
—	—	V. Nigeria	Lagos, Nigeria	1515
21500	—	R. Brazzaville	Brazzaville, Congo	1530
21535	—	R. RSA	Johannesburg, S. Afr.	1545
21540	HER	Swiss BC	Berne, Switz.	1500
25610	—	R. Nederland	Hilversum, Neth.	1430
25650	—	BBC	London, England	1450
25730	LLL	R. Norway	Oslo, Norway	1630
25790	—	R. RSA	Johannesburg, S. Afr.	1800
25900	LLA	R. Norway	Oslo, Norway	1800

## Emergency Radio Station Listings for New York City and Surrounding Areas in N. Y., N. J. and Conn.

□ RADIO-TV EXPERIMENTER and SCIENCE AND ELECTRONICS furnishes this exclusive listing of emergency radio stations as an aid to our many readers now engaged in the fascinating and rapidly growing hobby of monitoring emergency radio communications. We will be publishing similar lists devoted to different metropolitan areas in forthcoming issues so in the months ahead you'll be able to accumulate a sizable array of this difficult-to-obtain data.

Flushing	-KLE771	154.875
Bronx	-KLE772	154.875
Bkln	-KLE773	154.875

### NEW YORK CITY POLICE DEPT.

Station	Call	Transmit	Receive
City Wide	KEB523	154.43	153.89
Manhattan	KEB524	154.25	154.01
Brooklyn	KEB525	154.37	153.95
Queens	KEB526	154.40	153.83
Richmond	KEB527	154.19	154.07
Bronx	KED962	154.25	154.01
UHF channels		460.525	465.525
		460.575	465.575
		460.625	465.625

### NEW YORK CITY POLICE DEPT.

Boro Div.	Pcts.	Call	mHz
Manh 1	1 4 5 6 7	KEA837	154.74
Manh 2	9 10 13 14	KEA370	155.655
		KEG730	155.655
Manh 3	16 17 18	KEA837	154.74
Manh 4	19 20 22 23	KEA370	155.52
Manh 5	24 26 30 34	KEB281	155.97
Manh 6	25 28 32	KEB281	155.58
Bx 7	40 42 44 48	KEA744	156.03
		KEA841	156.03
Bx 8	41 43 45	KEA841	155.67
Bx 9	46 47 50 52	KEA745	155.64
Bkln 10	60 61 62 64 66 70	KJK601	151.205
Bkln 11	68 72 76 78 84	KJK599	151.46
Bkln 12	63 67 69 71 74 75	KJK600	151.37
Bkln 13	73 77 79 80 88	KJK604	151.16
		KJK606	151.16
Bkln 14	81 83 87 90 92 94	KJK598	151.34
		KJK605	151.34
Qns 15	100 101 102 104 106	KJK605	151.34
Qns 16	103 105 107 109 111	KJK603	151.19
Qns 17	108 110 112 114	KJK607	151.145
Rich 18	120 121 122	KJK597	151.355
		KJK601	151.355
		KJK602	151.355

OTHER NYPD STATIONS:  
Tactical Patrol Force  
Safety & Emergency Svce.

Special Events  
Misc. Units

Walkie Talkies

"City Wide" Manh. & Bx.	KEA394	155.70
"City Wide" Bkln. Qns. & Rich.	KJK597	151.25
Harbor & Helicopters: 156.30 156.80	156.95	
Police Commissioner: 161.22		
Transit Authority Police	KEP672	154.875
	L.I. City-KLE770	154.875

### NEW JERSEY AGENCIES

Station	Police	Fire
Allendale	KEJ811 37.08	KJE944 33.86
Allentown		KDA357 154.43
		KEH880 154.43
Alpine	KBS936 155.13	
Asbury Pk.		KJR228 154.43
Atlantic Hglds.	KEJ395 39.46	
Avenel		KDK766 33.82
Avon/Sea	KEB227 39.10	
	KEB227 39.46	
Basking Rdge.		KEE232 154.31
Bayonne	KEB206 155.49	KEJ693 166.25
Bedminster		KCJ825 33.94
Belleville	KEA388 155.61	KAY729- KAY731 154.22
Belmar	KEB229 39.46	KCO378 37.10
	KCO378 45.44	
Bergenfield	KEB447	
Berkeley Hts.	KEF868 39.10	KDG888 46.06
Bernards Twp.		KJN790 154.31
Bloomfield	KEB361 37.22	KEI864 46.44
	KEB361 37.36	
Bloomington		KDK760 46.42
		KJN827 46.42
Bogota	KEB308 45.90	
Boonton	KEB239 45.34	KEJ338 46.42
Boonton Twp.	KJG932 45.34	KJF898 46.42
Bound Brook	KEB685 155.31	KCL783 154.31
Bradley Beach	KEB229 39.10	
	KEB229 39.46	
Bridgewater Twp.		KDO202 33.94
		KEH859 33.94
		KG741 33.94
Brielle	KEF596 39.46	
Butler	KEH661 37.30	KBE465 46.42
Caldwell	KEA587 159.15	
Carlstadt	KEA555 155.73	KCN856 154.16
Carteret	KEB504 39.18	KFI478 33.82
Cedar Grove	KDR771 45.18	
	KEB242 45.18	
	KL1928 45.18	
Charlotteburg	KEX320 37.30	
Chatham		KGW784 154.31
Chatham Twp.	KBC882 156.15	KEH308 154.31
		KFN570 154.31
Chester		KEE929 46.42
		KJW777 46.42

# EMERGENCY RADIO STATIONS

Clark Twp.	KEC358	159.09	KDJ547	46.06	Keyport	KEG345	39.46		
Cliffside Pk.	KEB387	155.61	KED411	33.86	Kinnelon	KEG345	155.37		
	KGK596	155.61	KED411	154.16	Leonia	KG1554	37.30	KED268	46.42
Clifton	KEB328	155.91	KEE968	154.415	Liberty Corner	KEB397	37.26		
Closter	KEB330	155.13	KBT809	154.16	Lincoln Park	KEG822	45.34	KEJ339	154.31
Colonia			KDO248	33.82				KBC889	46.42
Colts Neck			KFD632	154.43	Linden	KEA781	155.73	KEF952	46.42
Cranbury			KEC822	33.82	Little Falls	KEA377	45.70	KDP360	46.06
Cranford Twp.			KEC996	46.06		KGW672	45.70	KAU335	46.38
Cresskill	KEB451	155.25						KEF200-2	46.38
Deal	KEB46	45.58			Little Ferry	KEB562	155.73	KEF652	46.38
Demarest	KBS937	155.13	KJV337	154.43	Little Silver	KDB448	39.46	KFR698	154.43
Denville Twp.	KEG962	45.46	KFN500	154.16	Livingston Twp.	KEA318	159.15		
Dover	KEB291	46.02	KCS485	46.42	Lodi	KEC626	37.10	KJF782	33.86
Dumont	KEB366	45:58	KCQ272	46.42	Long Branch	KEB225	39.46	KFM326	154.145
	KJD582	45.08			Long Valley			KFE324	46.42
Dunellen	KEC570	155.13			Lynchhurst Twp.	KEB371	155.73	KJS690	46.42
E. Brunswick Twp.	KEF477	155.415	KDG223	33.82	Madison			KDN950	154.16
E. Hanover Twp.	KEG887	159.15			Madison Twp.	KEF819	39.46	KEC840	46.32
E. Newark	KFN674	155.79				KEF819	45.54	KEC840	46.42
E. Orange	KEB385	39.50	KEA489	154.31	Mahwah Twp.	KEF819	45.54	KDD911	33.82
E. Paterson	KEA391	158.73	KED944	33.86		KED397	37.10	KDD911	46.42
E. Rutherford	KEB613	155.73	KLI370	154.16		KFD603	37.08	KEF954	33.86
Eatontown	KFZ867	39.46				KFD603	37.08	KJ8888	33.86
	KFZ867	154.80			Manville	KEB559	155.31	KJ8888	154.16
Edison Twp.			KEG776	33.82	Maplewood Twp.	KEA849	45.50	KJ8888	154.28
Elizabeth	KEA626	154.86	KDR477-8	453.15	Marlboro Twp.			KJ8888	154.28
Emerson	KEF730	155.13						KJ8888	154.28
Englewood	KEA422	159.21	KDX387	154.16	Martinsville			KCR926-8	154.43
Englewood Cliffs	KAT544	37.38						KCS570-1	154.43
Englishtown			KG P614	154.43				KDP293	33.94
Essex Fells	KDK768	158.94			Matawan	KJ1375	39.46	KEF826	33.94
	KEB207	159.15			Matawan Twp.	KBK290	39.46		
Fairfield Twp.	KEB446	45.18				KBK290	155.37		
Fair Haven	KOA780	39.46			Maywood	KEB489	155.01		
Fair Lawn	KEB383	158.73	KED736	33.86	Metuchen	KEA403	155.01	KEG663	33.82
Fair View	KEA416	155.61			Middletown Twp.	KEB912	39.46	KCR963	46.50
Fanwood	KEC757	158.73				KEB912	45.94		
Far Hills			KJ1511	46.06	Midland Park	KEC921	158.73		
Florham Pk.			KJJ464	33.94	Millburn Twp.	KEB211	37.10	KEE720	33.78
			KDQ304	46.32	Millington			KAU316	46.42
Fords			KDQ304	46.42	Milltown	KEC372	155.61		
Ft. Lee	KEB364	155.595	KEG253	33.82	Mine Hill	KEJ368	46.02		
	KEB364	155.51	KCP610	154.445	Montclair	KEB238	158.79	KBD656	46.16
Franklin Lakes	KEG853	158.73			Montgomery Twp.			KFR711	154.31
Freehold	KEA317	39.46	KAR779	154.43	Montville	KCY596	45.34	KJK804	154.31
	KEA317	154.875	KAZ202	154.43	Moonachie			KEP364	46.42
Garfield	KEB347	45.46	KJZ859	154.43	Morganville			KEF2860	154.16
Garwood	KEC592	155.25	KDR384	33.86	Morris Twp.	KEB326	45.30	KCR926	154.43
Glen Ridge	KEC853	45.18	KEP989	46.06		KJR442	45.30		
Glen Rock	KEB351	158.73			Morristown	KEB262	39.08	KCI738	46.42
Green Brook	KEC288	155.13	KDR415	154.31	Mountain Lakes			KEH547	46.42
Guttenberg	KEB350	159.09	KDZ365	170.15	Mountainside	KEC800	39.10	KDL830	46.06
Hackensack	KEB406	156.09			Mt. Freedom	KEC282	46.02	KJBB51	46.42
Haledon	KEI204	39.86	KFB902	46.38	Neptune	KJ5843	154.65		
			KL6628	46.38	Neptune Twp.	KBY250	45.24		
Hanover Twp.	KEG446	45.38				KDX500	39.46		
Harrington Pk.	KBY355	155.13	KGW760	154.16	Neshanic	KEA276	37.26		
Harrison	KCP551	155.19	KCW343	46.18	Neshanic Sta.	KEA276	39.46	KEH986	154.31
Hasbrouck Hts.			KDS612	154.16	Newark			KCN860	154.31
Haworth	KEE528	45.58				KEA953	154.80	KEC989	154.13
Helmetta			KGJ643	33.82		KEA953	156.21	KJ1456	154.13
Highland Pk.			KDK783	33.82		KEC882	156.21		
Highlands	KGR276	39.46			New Brunswick	KEA379	155.61	KJE874	33.82
	KG R276	154.815			New Milford	KEE355	45.58	KDD904	154.16
Hillsboro Twp.	KEE841	155.31						KGW664-5	154.16
Hillsdale	KEF720	155.13							
Hillside Twp.	KEB404	154.845	KEC956	46.06					
Hoboken	KEB413	159.09	KEC795	170.15					
			KED377-						
			KED342	170.15					
			KED472	170.15					
Hohokus	KEC846	158.73							
Holmdel	KF5994	39.46	KET228	154.43					
Howell Twp.			KEM664	154.43					
			KFD597	154.43					
			KJ1472	154.43					
Irvington	KEA783	45.10	KAS411	46.24					
	KEC578	45.10	KAZ584-7	46.24					
	KJE932	45.10	KCI664	46.24					
			KEG883	33.82					
Iselin			KDS687	33.82					
			KCO314	33.82					
Jamesburg	KDV718	155.61	KEI340	46.42					
Jefferson Twp.	KEI426	46.02	KBI857	166.25					
Jersey City	KEB353	158.97	KBM655	154.205					
	KJR239	158.85	KEB984	154.205					
	KJR239	158.97	KEC917	154.205					
			KEI665	154.205					
			KJP555	154.235					
Kearny	KEA245	46.02	KCQ319	46.18					
Kenilworth	KEC773	159.21	KDJ741	46.06					
					Oaklyn				
					Ocean Twp.				
					Ocean Grove Twp.				
					Oceanport				
					Old Tappan				

Oradell	KEB409	45.58	KDF533	154.16
Orange	KEB348	39.62	KDA401	46.12
Palisades Park	KEB299	45.90	KEE846	33.86
Paramus	KEC209	39.94		
Park Ridge	KEB223	155.37		
Parsippany	KEE480	39.02	KBG778	46.48
	KEF480	39.14	KCK990-5	46.48
			KEX279	46.48
			KEH997-8	46.40
Passaic	KEB435	45.78		
	KDN419	45.78		
Paterson	KLK522	39.68	KAQ236	46.20
	KCT257	39.68	KAQ236	46.38
	KCT257	39.86		
	KEB412	39.86		
Perth Amboy	KEA741	155.37	KEG514	33.82
Piscataway Twp.	KEA571	158.73	KEE208	33.82
Plainfield	KEB468	158.73	KBA463	46.06
			KBA466	46.06
			KECS81	46.06
Pompton Lakes	KEA291	37.30		
	KED237	37.30		
Port Reading			KDY438	33.82
Pottersville			KJJ465	33.94
Prospect Park	KGP690	39.86	KGL591	46.38
Ramsey	KEB464	155.73	KEC249	46.06
	KED765	37.08	KEG722	33.86
			KFG721	33.86
			KED765	37.10
			KDC722	46.42
			KDJ434	154.31
Randolph Twp.	KEB291	46.02		
Raritan	KEF210	155.31		
Raritan Twp.	KEJ245	39.46		
	KEJ245	155.37		
	KEB230	39.10		
Red Bank	KBW853	155.61	KBI777	33.88
Ridgefield	KEB376	45.90		
Ridgefield Park	KEB415	158.73		
Ridgewood	KEG720	37.30		
Ringwood	KEC751	37.30		
Riverdale	KEB340	156.09		
River Edge			KDJ612	154.16
			KJJ448	154.16
River Vale Twp.	KEF304	155.13		
Rochelle Park			KEB990	37.10
Rockaway	KFF345	46.02	KEY973	46.42
Rockaway Twp.	KEI621	45.78	KEJ452	46.42
Roseland	KEE344	159.15		
Roselle	KEA477	155.61	KEF442	46.06
			KDR445	154.98
Roselle Park	KEA779	159.21	KDG367	46.06
Roxbury Twp.			KDL833-5	46.42
Rumson	KEA698	39.46		
	KEA698	155.25		
	KEA311	155.73		
Rutherford			KCR939	154.16
Saddle Brook			KJR450	33.82
			KEC240	37.12
Saddle River	KEJ810	37.38	KEH513	33.82
Sayreville	KEB653	155.61	KDQ338	33.82
Schooleys Mtn.			KGR203	46.42
Scotch Plains Twp.	KEB454	39.10	KDG887	46.07
Sea Girt	KEG968	39.46		
	KEG968	155.25		
Secaucus	KEB212	155.07	KDJ536	170.17
Shrewbury	KGW756	39.46		
Smithburg			KLE733	154.47
Somerville	KEB547	155.31	KDG354	154.37
			KGJ779	154.37
S. Amboy	KEB117	155.01		
S. Belmar	KDB425	37.10		
	KDB425	39.46		
S. Bound Brook	KED832	155.31	KDD996	154.37
S. Brunswick Twp.	KEH518	39.98		
S. Hackensack	KBB860	37.10		
	KBB860	37.38		
S. Orange	KEB488	155.595		
S. Plainfield	KEB427	158.73	KED814	33.82
S. River	KEB224	155.61	KDN530	33.82
			KDN530	154.37
			KDN517	33.82
			KEC795	46.07
			KFY427	154.47
Spotswood	KED697	155.61		
Springfield	KEB341	39.30		
Spring Lake	KEB231	39.46		
	KEB231	155.25		
Spring Lk. Hts.	KEJ337	39.46		
	KEJ337	155.25		
Stirling	KJH299	39.04	KJF884	46.47
Summit	KEB300	155.91	KCZ906	154.17
	KEB300	156.15		
	KEA916	158.73		
Teaneck	KEB349	45.58		
Tenafly			KEO287	154.43
Tennent	KEG724	45.70	KEG597	46.39
Totowa	KEA348	155.37	KCX433	46.06
Union Twp.	KGR339	155.57	KEB674	46.06
			KEJ307	46.06
			KDG376	154.43
Union Beach	KEE389	39.46		
	KEE389	45.54		
Union City	KEB357	159.09	KAQ911	170.15
Upper Saddle R.			KEE869	33.86
			KEJ878	37.10

# LAFAYETTE

## RADIO ELECTRONICS

### VHF FM RECEIVERS

#### MONITOR:

Police Department  
Fire Department  
Railroads

U.S. Weather Bureau  
Auto Emergencies  
Forestry Conservation

### DUAL BAND RECEIVER



TUNES:  
30-50 MHz  
152-174 MHz

Stock No.  
99-2589WX\*

PF-175

Only **99<sup>95</sup>** No Money Down

Operates on 117 VAC or 12 VDC. One crystal position each channel.

SINGLE BAND RECEIVERS Similar to Above.  
Model PF-60 (152-174MHz) 99-2590WX\* ..... 79.95  
Model PF-30 (30-50MHz) 99-2591WX\* ..... 79.95

### MOBILE RECEIVER



Only **69<sup>95</sup>** No Money Down

PB-150 6 1/4 x 2 3/8 x 8"D

Stock No.  
99-2592WX\*

Tunes 152-174 MHz plus 1 crystal position. Operates on 12 VDC negative ground.

Model PB-50 (30-50MHz) 99-2593WX\* ..... 69.95

### HAND-HELD RECEIVER



Only **17<sup>95</sup>** Pocket Size: 6 x 2 x 1 1/8"  
Tuneable: 146-175 MHz

Stock No.  
99-3531L\* 10 Transistor-Superheterodyne

27-50 MHz RECEIVER 99-3533L\* ..... 17.95

\*Imported

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## EMERGENCY RADIO STATIONS

Vernon Twp.	KJF701	45.46		
Verona	KEA963	45.18		
Waldwick	KEE458	37.38		
Wall Twp.	KEG287	37.06		
	KEG287	37.10		
	KEG287	39.46		
Wallington	KEA737	155.73	KFI482	154.16
Wanaque	KED505	37.30	KCO382	33.94
Warren Twp.			KEJ336	33.94
Washington Twp.	KJH250	46.02	KEE216	33.94
	KED704	155.13	KBM805	46.36
Watchung	KEH654	155.13	KGY256	46.36
Wayne Twp.	KEP604	45.26	KAY967	170.15
Weehawken	KEB386	159.09	KEJ495	46.06
Westfield	KEB333	39.10	KCS504	46.06
	KEB333	39.12	KEY916	46.38
W. Milford Twp.	KEJ812	37.30	KAQ490	170.15
W. New York		27.275		
	KEB426	45.98	KCZ455	46.08
W. Orange	KED285	45.62	KFT494	46.38
W. Paterson	KEH729	45.70	KGK658	46.38
	KGK666	45.70		
Westwood	KEB354	155.13	KFB840	46.06
Winfield	KEE880	45.50	KED485	33.82
Woodbridge	KEA926	45.18		
Woodbridge Twp.				
Woodcliff Lake	KIZ358	155.37		
Wood Ridge	KEA349	155.73		
Wyckoff	KEB440	158.73		

## N. J. COUNTY POLICE & FIRE AGENCIES

Station	Police	Fire
<b>BERGEN COUNTY, N.J.</b>		
Hackensack	KEA334	37.38
Mahwah	KFO785	37.38
Paramus	KFM359	37.38
	KFN507	37.38
Rockleigh	KEJ294	37.38

<b>ESSEX COUNTY, N.J.</b>		
Newark	KED494	45.22
W. Orange	KEE872	45.94
mobile units	—	45.30

<b>HUDSON COUNTY, N.J.</b>		
Jersey City	KEB420	155.73

<b>MIDDLESEX COUNTY, N.J.</b>		
New Brunswick	KCO383	154.43
	KET309	159.03
Plainsboro Twp.	KGK560	154.43

<b>MONMOUTH COUNTY, N.J.</b>		
Freehold Twp.	KEA317	39.46

<b>MORRIS COUNTY, N.J.</b>		
Bedminster Twp.	KJP467	39.02
Bernards Twp.	KJP471	39.02
Bernardsville	KJP474	39.02
Chester Twp.	KJP473	39.02
Harding Twp.	KJP466	39.02
Hopatcong	KJP472	39.02
Ledgewood	KEC223	39.02
Lyons	KLK652	39.02
Mendham Boro	KJP468	39.02
Mendham Twp.	KJP465	39.02
Morris Plains	KEC223	39.02
Mt. Olive Twp.	KJP470	39.02
Mountain Lakes	KJP469	39.02
Peapack	KJP464	39.02
Randolph Twp.	KEG702	45.90
Succasunna	KED462	39.02

<b>PASSAIC COUNTY, N.J.</b>		
Paterson	KED839	45.42
portable	KBR646	45.42

<b>SOMERSET COUNTY, N.J.</b>		
Bridgewater	KCQ249	39.18

<b>UNION COUNTY, N.J.</b>		
Elizabeth	KEC361	45.98

## N.J. STATE POLICE

Berkeley Hts.	KEA827	44.62	44.66	44.94	154.68
		155.46			
Colts Neck	KED752	44.62	44.66	44.94	154.68
		155.445			
Edison Twp.	KEA822	44.62	44.66	44.94	154.68
		155.445			
Frankfort Twp.	KBE497	44.62	44.66	44.86	154.68
		155.46			
Fredon Twp.	KEA823	44.62	44.66	44.94	154.68
		155.46			
Glen Gardner	KEC766	44.62	44.66	44.94	154.68
		155.46			
Greystone Pk.	KEB635	39.02	(State Hospital)		
Hightstown	KEA814	44.62	44.66	44.94	154.68
		155.445			
Hopewell	KFX347	44.62	44.66	44.94	154.68
		155.445			
Howell Twp.	KEA815	44.62	44.66	44.94	154.68
		155.445			
Morristown	KEA820	44.62	44.66	44.94	154.68
		155.46			
Mt. Horab	KEA828	44.62	44.66	44.94	154.68
		155.46			
Newfoundland	KEE615	44.62	44.66	44.94	154.68
		155.46			
Oakland	KEE431	44.62	44.66	44.94	154.68
		155.46			
Paramus	KEA845	44.62	44.66	44.94	154.68
		155.46			
Plainsboro	KEC848	44.62	44.66	44.94	154.68
		155.445			
Raritan Twp.	KEA812	44.62	44.66	44.94	154.68
		155.46			
	KEA816	44.62	44.66	44.94	154.68
		155.445			
Roxbury Twp.	KEA821	44.62	44.66	44.94	154.68
		155.46			
Sussex	KEC371	44.62	44.66	44.94	154.68
		155.46			
Tennent	KEF824	44.62	44.66	44.94	154.68
		155.445			
Washington	KEA831	44.62	44.66	44.94	154.68
		155.46			

## N.J. TURNPIKE

Jersey City	KEE970-1	154.83
	KEE973	154.83
New Brunswick radar units	KEC469	155.19
	—	45.82

## N.J. HIGHWAY AUTHORITY

Bloomfield	KEE284	154.905
Holmdel Twp.	KEE283	154.905
mobile units	—	154.95 158.911

## PALISADES INTERSTATE PARK COMMISSION

Alpine, N.J.	KEA400	154.89
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## N. Y. STATE COMMUNITIES (EXCEPT L. I.)

Station	Police	Fire
Ardley	KED651	155.73
		KBN504 46.26
		KJB973 46.26
Armonk	KEA234	45.14
Banksville		KEE879 46.26
		KFB933 46.14
		KFB933 46.26
Bedford Hills	KEB457	155.25
		KBG923 46.26
		KEF249 46.26
Briarcliff Mnr.	KEC363	37.10
		KEF612 46.14
		KEF612 46.26
Bronxville	KEB458	155.49
Buchanan		KDY272 46.14
		KDY272 46.26
Chappaqua	KLK582	39.10
		KEJ739 46.14
		KEJ739 46.26
Congers		KEE626 46.18
Croton/Hudson	KED434	37.10
		KDP348 46.14
		KDP348 46.26
Eastchester	KEA950	155.49
Elmsford	KEA307	155.73
		KBR359 46.14
Fairview		KEE326 46.14
Glenwood Landg		KEB533 46.10
Greenburgh	KEA959	45.14
	KGV299	45.26
		KED478 46.14
		KED478 46.26
Greenville		KEC624 46.14
		KEC624 46.26
Greenwood Lake	KEE594	39.10
Harrison	KEB417	155.13
Hartsdale		KEB478 46.14
		KEB478 46.14
Hastings/Hudson	KEB583	155.73
Haverstraw	KEA399	37.18

Hawthorne			KEE279	46.14
			KEE279	46.26
Irvington	KEB583	155.73	KDR456	46.14
			KDR456	46.26
Katonah			KEF498	46.14
			KEF498	46.26
Larchmont	KEA333	155.25	KBR622	46.14
	KEA404	155.25	KBR622	46.26
			KEJ584	46.14
			KEJ584	46.26
Letchworth Vlg.			KEG907	46.18
Mamaroneck	KEB449	155.25	KEF940	46.14
			KEF940	46.26
Millwood			KEJ244	46.14
			KEJ244	46.26
Moleston			KI2310	46.18
			KED435	46.18
Monsey			KEJ956	46.18
			KDV409	46.18
Montrose			KED763	46.14
			KED763	46.26
Mt. Kisco	KEA805	155.25	KEI615	46.14
			KEI615	46.26
Mt. Pleasant	KEC315	37.06		
	KEC315	37.10		
Mt. Vernon	KEA501	155.37	KEE404	46.14
			KEE404	154.145
Nanuet			KED946	46.18
New Castle			KEJ739	46.14
			KEJ739	46.26
New City	KEB591	37.18	KEE598	46.18
New Rochelle	KEA351	155.13	KCO267	46.14
			KEF934	46.26
			KJV334	46.14
			KJV334	46.26
No. Castle			KCS576	46.26
			KEE879	46.26
No. Pelham	KEB375	155.25		
No. Tarrytown	KEA434	37.10	KBS999	46.14
			KBS999	46.26
Nyack	KEA332	37.18	KEX339	46.18
Orangeburg	KEA378	37.18	KFN569	46.18
Ossining	KEB208	37.10	KBE467	46.14
			KBE467	46.26
			KLD812	46.26
Pearl River			KEF204	46.18
Peekskill	KEB564	45.14	KCP575	46.14
			KCP575	46.26
Pelham	KEB372	155.25	KBR623	46.14
			KBR623	46.26
Pelham Manor	KEB209	155.25	KBP638	46.14
			KBP638	46.26
Piermont	KEA490	37.18		
Pleasantville	KEC547	155.25	KED433	46.26
Poconto Hills			KEY897	46.14
			KEY897	46.26
Pomona			KI2310	46.18
Pt. Chester	KEB908	155.01	KEF213	46.14
			KEF213	46.26
Pound Ridge			KED693	46.14
			KED693	46.26
Purchase			KBT813	46.14
			KBT813	46.26
Rye	KEB266	155.01	KEJ252	46.14
			KEJ252	46.26
Scarsdale	KEA443	155.49	KDS681	46.14
			KDS681	46.26
			KEC624	46.14
			KEC624	46.26
Sloatsburg			KGJ715	46.18
S. Spring Vall.			KEC810	46.18
Sparkill			KJD215	46.18
Spring Valley	KEC222	37.18	KEC810	46.18
Stony Pt.	KLI225	37.18	KEF476	46.18
Suffern	KEA511	37.18	KEE558	46.18
	KEA683	37.18		
Tailman	KEA511	37.18	KED748	46.18
Tappan			KEE526	46.18
Tarrytown	KEB268	155.73	KEE248	46.14
			KBR624	46.26
Thiell	KG7615	37.18	KBW404	46.18
Thornwood			KEE248	46.14
			KEE248	46.26
Tuckahoe	KEB448	155.49		
Tuxedo Park	KDF574	37.18		
	KEA357	37.18		
Valhalla			KEJ768	46.14
			KEJ768	46.26
Valley Cottage			KGW678	46.18
Verplanck			KFI518	46.14
			KFI518	46.14
Vista			KDD912	46.14
			KDD912	46.26
Warwick	KOT394	39.98		
W. Haverstraw			KFX354	46.18
W. Nyack			KEF538	46.18

White Plains	KEB301	37.06	KEE326	46.14
	KEB301	37.10	KEE326	46.26
			KED497	46.14
			KED497	46.14
Yonkers	KEB442	45.50	KCI560	46.50
	KJR433-4	453.925		

**LONG ISLAND (NASSAU COUNTY)**

**COMMUNITIES**

Station	Police	Fire
Baldwin		KEB486 46.10
Bayville		KEI437 46.10
Bellmore		KEB868 46.10
Bethpage		KED745 46.10
Carle Place		KEH987 46.10
Cedarhurst		KEG312 46.10
E. Meadow		KEC697 46.10
E. Norwich		KEB866 46.10
E. Rockaway		KED422 46.10
Elmont		KEB861 46.10
Farmingdale		KAV466 46.10
		KEC211 46.10
Floral Park	KEA312 39.18	KEC323 46.10
Franklin Sq.		KECS63 46.10
Freeport	KEB461 154.815	KCK525 154.815
Garden City	KEA474 155.43	
Garden City Pk.		KGJ777 158.925
Glen Cove		KED283 46.10
Great Neck		KEC289 46.10
		KEE204 46.10
Great Neck Ests.	KEB581 155.61	KEC960 46.10
Hewlett		KBW814 154.71
Hempstead	KEA678 154.71	
	KEC899 154.71	
Hempstead Twp.	KFR703 155.01	
Hicksville		KED347 46.10
Inwood		KEF283 46.10
Island Pk.		KB1515 46.10
Jericho		KEG503 46.10
Kensington	KFG511 155.61	
Kinas Pt.	KEB373 155.61	
Lake Success	KEE522 155.61	
Lakeview		KEE877 46.10
Laurel Hollow		
Lawrence	KFT554 39.72	
Levittown		KDA694 46.10
Lido Beach		KEG312 46.10
Locust Valley		KEB914 46.10
Long Beach	KEB324 155.37	KEJ695 46.10
Lynbrook	KBG782 39.54	KEB865 46.10
Malverne	KEB455 155.13	KB1970 46.10
Massapequa		KEE209 46.10
Mineola		KED266 46.10
N. Bellmore		KEB965 46.10
		KED820 46.10
		KEF747 46.10
N. Massapequa		KFF238 46.10
		KEH415 46.06
		KEH415 46.10
		KEC961 46.10
		KED554 46.10
N. Merrick		
Oceanside	KEI438 39.54	
Old Brookville	KAW382 39.54	
Old Westbury		KEE844 46.10
Oyster Bay		KEE716 46.10
Plainview		
Plandome	KEC683 155.61	
Point Lookout		KEJ695 46.10
Port Washington	KEB429 155.61	KDB416 46.10
Rockville Cent.	KFZ837 39.86	KBH354 33.90
	KEA398 39.98	
	KED870 39.98	
Roosevelt		KED847 46.10
Roslyn Hts.		KEC910 46.10
		KEG292 46.10
Sands Point	KEB437 155.61	
Sea Cliff		KEE610 46.10
Seaford		KEE666 46.10
S. Hempstead		KEU924 46.10
Syosset	KFG553 37.30	KEJ586 46.10
Uniondale		KED396 46.10
Wantagh		KEC859 46.10
W. Hempstead		KED761 46.10
		KEE877 46.10
		KDP449 46.10
Westbury		KGW521 46.10
Williston Pk.		KGW521 46.22
		KEE625 46.10
Woodmere		

**U. S. WEATHER BUREAU FORECASTS**

KWO35 162.55

## Squeech

Continued from page 34

that the human ear is just able to perceive. This perception phenomenon is known as the *Haas Effect*.

This fortunate deficiency of the ear is similar to the perceptual limitation of the human eye that makes motion pictures possible. As you may already know, a motion picture film actually consists of a series of still pictures strung together along the length of the film. As the projector moves each successive picture or *frame* into position for showing, there is a momentary period of darkness. But the dark periods are so short that the eye does not perceive them, and the overall effect is that of a continuous moving image. In the same way, the ear fails to perceive rapid sound deletions.

**Degree of Compression.** Fig. 3 diagrams 10%, 20%, and 50% degrees of compression. The middle line in each section of the diagram represents a length of tape divided into 21 blocks; each block represents a tape segment that is 13.35 millimeters in length. Why this length? Because at a 15 ips tape speed, this length of tape represents 34.68 milliseconds of playing time, a period slightly shorter than threshold perceptual time of 35 milliseconds. This length is automatically measured out by the playback equipment because it is equal to the gap-to-gap distance of the rotating head.

If the Eltro Changer's control knob is adjusted so that there is a 10% increase of the tape velocity (about 16.5 ips), every *tenth* bit of sound information on the tape is eliminated. This results in a *time compression* of 10%. If the tape speed is increased by 20% (to about 18 ips), every *fifth* bit is removed to achieve a 20% time compression. Finally, if the tape speed is doubled to 30 ips, every *second* bit is removed, and the total playing time is chopped in half.

**Time Expansion.** Speech compression now appears to be of primary interest in terms of potential applications. However, speech expansion also has uses. In this case the playing time is lengthened without introducing pitch changes.

The Eltro does this with equal ease when the control knob is properly adjusted. Basically, expansion is created in much the same way as is compression except that the tape velocity is made slower than the relative

playback velocity, hence the head gaps tend to catch up with tape segments already scanned once. Instead of eliminating information bits, the head now *replays* bits periodically.

Frequency of these replays depends on the way the instrument is adjusted. The highest, limiting expansion of 200% is achieved when each bit (13.35 mm segment) is reproduced *twice* before the head goes on to the next bit. This condition yields a tape that requires twice as much playback time as the original recording. To obtain lesser degrees of expansion, the system is adjusted so that fewer information bits are reproduced twice.

**The "Make-a-Buck" Boy!** Business and industry may find uses for squeech—for management training purposes, for indoctrination of salesmen, for review of board meetings or sales meetings, for scanning client conferences. And consider the harassed secretary or steno who must cope with the dictation of a fast-talking bossman. If the employer's dictation is slowed down, the typist is likely to make far fewer mistakes when transcribing the material. On the other hand, speeded up recordings might be just the thing for testing the proficiencies of secretarial applicants.

There are many other potential applications for squeech. One more might be mentioned, if only because it is so unusual. Squeech may solve a particularly vexing problem in deep sea exploration. The addition of helium to the breathing atmosphere of divers hampers telephone communications because the gas causes a pitch increase in the voices of the divers. This pitch increase greatly reduces intelligibility. However, a rate changer could be used to restore such off-pitch speech to normalcy without in any way deteriorating the sound quality.

If compressed speech eventually becomes as diversely useful as these examples suggest, all sorts of people will have to acquire new listening habits. The adjustment may be a little easier for some than for others. For example, one man who had just listened to a speeded-up recording for the first time simply shrugged his shoulders and said: "What's so unusual about that? My teenage daughter talks like that all the time?"

If you don't happen to be the parent of a fast-talking teenager, there is another way you can test your ability to cope with compressed speech. Just dial 212-265-4144 and listen to some Squeech. ■

Another reason two-way radio men earn so much more than radio-TV service men is that they are needed more often and more desperately. A home radio or television set may need repair only once every year or two, and there's no real emergency when it does. But a two-way radio user must keep those transmitters operating at all times, and *must* have their frequency modulation and plate power input checked at regular intervals by licensed personnel to meet FCC requirements.

This means that the available licensed experts can "write their own ticket" when it comes to earnings. Some work by the hour and usually charge at least \$5.00 per hour, \$7.50 on evenings and Sundays, plus travel expenses. A more common arrangement is to be paid a monthly retainer fee by each customer. Although rates vary widely, this fixed charge might be \$20 a month for the base station and \$7.50 for each mobile station. A survey showed that one man can easily maintain at least 100 stations, averaging 15 base stations and 85 mobiles. This would add up to at least \$12,000 a year.

#### Be Your Own Boss

There are other advantages too. You can become your own boss—work entirely by yourself or gradually build your own fully staffed service company. Instead of being chained to a workbench, machine, or desk all day, you'll move around, see lots of action, rub shoulders with important police and fire officials and business executives who depend on two-way radio for their daily operations. You may even be tapped for a big job working for one of the two-way radio manufacturers in field service, factory quality control, or laboratory research and development.

#### How To Get Started

How do you break into the ranks of the big-money earners in two-way radio? This is probably the best way:

1. Without quitting your present job, learn enough about electronics fundamentals to pass the Government FCC Exam and get your Commercial FCC License.
2. Then get a job in a two-way radio service shop and "learn the ropes" of the business.
3. As soon as you've earned a reputation as an expert, there are several ways you can go. You can move *out* and start signing up and servicing your own customers. You might become a franchised service representative of a big manufacturer and then start getting into two-way radio sales, where one sales contract might net

you \$5,000. Or you may even be invited to move *up* into a high-prestige salaried job with one of the major manufacturers either in the plant or out in the field.

The first step—mastering the fundamentals of Electronics in your spare time and getting your FCC License—can be easier than you think.

Cleveland Institute of Electronics has been successfully teaching electronics by mail for over thirty years. Right at home, in your spare time, you learn electronics step by step. Our *at-to-pro*, GRAMMED® lessons and coaching by expert instructors make everything clear and easy, even for men who thought they were "poor learners." You'll learn not only the fundamentals that apply to all electronics design and servicing, but also the specific procedures for installing, troubleshooting, and maintaining two-way mobile equipment.

#### Get Your FCC License... or Your Money Back!

By the time you've finished your CIE course, you'll be able to pass the FCC License Exam with ease. Better than nine out of ten CIE-trained men pass the FCC Exam the first time they try, even though two out of three non-CIE men fail. This startling record of achieve-

ment makes possible the famous CIE warranty: you'll pass the FCC Exam upon completion of your course or your tuition will be refunded in full.

Ed Dulaney is an outstanding example of the success possible through CIE training. Before he studied with CIE, Dulaney was a crop duster. Today he owns the Dulaney Communications Service, with seven people working for him repairing and manufacturing two-way equipment. Says Dulaney: "I found the CIE training thorough and the lessons easy to understand. No question about it—the CIE course was the best investment I ever made."

Find out more about how to get ahead in all fields of electronics, including two-way radio. Mail the bound-in postpaid reply card for two FREE books, "How To Get A Commercial FCC License" and "How To Succeed In Electronics." If card has been removed, just mail the coupon below.

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EX-31

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The "Edu-Kit" offers you an outstanding PRACTICAL HOME RADIO COURSE at a rack-bottom price. Our Kit is designed to train Radio & Electronics Technicians, making use of the most modern methods of home training. You will learn radio theory, construction practice and servicing. This is a COMPLETE RADIO COURSE IN EVERY DETAIL. You will learn how to build radios, using regular schematics; how to wire and solder in a professional manner; how to service radios. You will work with the standard type of punched metal chassis as well as the latest development of Printed Circuit chassis. You will learn the basic principles of radio. You will construct, study and work with RF and AF amplifiers and oscillators, detectors, rectifiers, test equipment. You will learn and practice code, using the Progressive Code Oscillator. You will learn and practice trouble-shooting, using the Progressive Signal Tracer, Progressive Signal Injector, Progressive Dynamic Radio & Electronics Tester, Square Wave Generator and the accompanying instructional material. You will receive training for the Novice, Technician and General Classes of F.C.C. Radio Amateur Licenses. You will build Receiver, Transmitter, Square Wave Generator, Code Oscillator, Signal Tracer and Signal Injector Circuits, and learn how to operate them. You will receive an excellent background for television, Hi-Fi and Electronics. Absolutely no previous knowledge of radio or science is required. The "Edu-Kit" is the product of many years of teaching and engineering experience. Therefore you construct yours with a basic education in Electronics and Radio, worth many times the low price you pay. The Signal Tracer alone is worth more than the price of the kit.

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You do not need the slightest background in radio or science. Whether you are interested in Radio & Electronics because you want an interesting hobby, a well paying business or a job with a future, you will find the "Edu-Kit" a worth-while investment. Many thousands of individuals of all

ages and backgrounds have successfully used the "Edu-Kit" in more than 79 countries of the world. The "Edu-Kit" has been carefully designed, step by step, so that you cannot make a mistake. The "Edu-Kit" allows you to teach yourself at your own rate. No instructor is necessary.

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The Progressive Radio "Edu-Kit" is the foremost educational radio kit in the world, and is universally accepted as the standard in the field of electronics training. The "Edu-Kit" uses the modern educational principle "Learn by Doing." Therefore you construct, learn schematics, study theory, practice trouble shooting—all in a closely integrated program designed to provide an easily-earned, thorough and interesting background in radio. You begin by examining the various radio parts of the "Edu-Kit." You then learn the function, theory and wiring of these parts. Then you build a simple radio. With this first set you will enjoy listening to regular broadcast stations, learn theory, practice testing and trouble-shooting. Then you build a more advanced radio, learn more advanced theory and techniques. Gradually, in a progressive manner, and at your own rate, you will find yourself constructing more advanced multi-tube radio circuits, and doing work like a professional Radio Technician. Included in the "Edu-Kit" course are Receiver, Transmitter, Code Oscillator, Signal Tracer, Square Wave Generator and Signal Injector Circuits. These are not unprofessional "breadboard" experiments, but genuine radio circuits, constructed by means of professional wiring and soldering on metal chassis, plus the new method of radio construction known as "Printed Circuitry." These circuits operate on your regular AC or DC house current.

### THE "EDU-KIT" IS COMPLETE

You will receive all parts and instructions necessary to build twenty different radio and electronics circuits, each guaranteed to operate. Our Kits contain tubes, tube sockets, variable, electrolytic, mica, ceramic and paper dielectric condensers, resistors, tie strips, hardware, tubing, punched metal chassis, Instruction Manuals, hook-up wire, solder, selenium rectifiers, coils, volume controls and switches, etc. In addition, you receive Printed Circuit materials, including Printed Circuit chassis, special tube sockets, hardware and instructions. You also receive a useful set of tools, a professional electric soldering iron, and a self-powered Dynamic Radio and Electronics Tester. The "Edu-Kit" also includes Code Instructions and the Progressive Code Oscillator, in addition to F.C.C. Radio Amateur License training. You will also receive lessons for servicing with the Progressive Signal Tracer and the Progressive Signal Injector, a High Fidelity Guide and a Quiz Book. You receive Membership in Radio-TV Club, Free Consultation Service, Certificate of Merit and Discount Privileges. You receive all parts, tools, instructions, etc. Everything is yours to keep.

Progressive "Edu-Kits" Inc., 1186 Broadway, Dept. 533NN, Hewlett, N. Y. 11557

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City & State .....

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- MEMBERSHIP IN RADIO-TV CLUB
- CONSULTATION SERVICE • FCC AMATEUR LICENSE TRAINING
- PRINTED CIRCUITRY

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You will learn trouble-shooting and servicing in a progressive manner. You will practice repairs on the sets that you construct. You will learn symptoms and causes of trouble in home, portable and car radios. You will learn how to use the professional Signal Tracer, the unique Signal Injector and the dynamic Radio & Electronics Tester. While you are learning in this practical way, you will be able to do many a repair job for your friends and neighbors, and charges which will far exceed the price of the "Edu-Kit." Our Consultation Service will help you with any technical problems you may have.

### FROM OUR MAIL BAG

J. Statatits, of 25 Poplar Pl., Waterbury, Conn., writes: "I have repaired several sets for my friends, and made money. The "Edu-Kit" paid for itself. I was ready to spend \$240 for a Course, but I found your ad and sent for your Kit."

Ben Valerio, P. O. Box 21, Magna, Utah: "The Edu-Kits are wonderful. Here I am sending you the questions and also the answers for them. I have been in Radio for the last seven years, but like to work with Radio Kits, and like to build Radio Testing Equipment. I enjoyed every minute I worked with the different kits; the Signal Tracer works fine. Also like to let you know that I feel proud of becoming a member of your Radio-TV Club."

Robert L. Shuff, 1534 Monroe Ave., Huntington, W. Va.: "Thought I would drop you a few lines to say that I received my Edu-Kit, and was really amazed that such a bargain can be had at such a low price. I have already started repairing radios and phonographs. My friends were really surprised to see me get into the swing of it so quickly. The Trouble-shooting Tester that comes with the Kit is really swell, and finds the trouble, if there is any to be found."

### PRINTED CIRCUITRY

At no increase in price, the "Edu-Kit" now includes Printed Circuitry. You build a Printed Circuit Signal Injector, a unique servicing instrument that can detect many Radio and TV troubles. This revolutionary new technique of radio construction is now becoming popular in commercial radio and TV sets.

A Printed Circuit is a special insulated chassis on which has been deposited a conducting material which takes the place of wiring. The various parts are merely plugged in and soldered to terminals.

Printed Circuitry is the basis of modern Automation Electronics. A knowledge of this subject is a necessity today for anyone interested in Electronics.