W.T.F.D.A. Headquarters, P.O. Box 514, Buffalo, NY 14205

TIME FOR A CHECKUP?...It's been a long winter, and you won't be able to get in on the rapidly increasing DX opportunities unless your equipment is ready. Check that antenna system NOW! Replacing any bad lead-in or faulty parts in the next few weeks will pay off--things may get too busy for you to get to it later. If you've been thinking of a new antenna set-up, or meaning to get a new tuner, the time is here!

SPRING IS HERE!... Are you ready? April marks the start of the "DX season" for VHF/UHF DX enthusiasts. Any time now, the first E-skip openings of the spring season will be disturbing the low band TV channels from 2 to 6. and may even briefly go into the FM band just above 88 MHz. E-skip tends to make a slow return, and will show up first for southern DXers, but by the last week of this month, most WTFDA members may have noticed at least one good opening. Then too. the warming weather brings increasing tropo opportunities in April--so be alert for signs of long distance UHF ducting in between April's many rainy periods.

DX FORUM AT HAM RADIO'S BIG EVENT... The largest annual amateur radio gathering in existence is the famous Dayton Hamvention at Dayton, OH. Many WTFDAers will be attending this event, and those of you who will be there shouldn't miss the Miami Valley DX Club's third annual SWL-DX-Listener's Forum. This is an all band event that should be of interest to all DXers and other communications enthusiasts. The Hamvention will be held from Friday, April 26 through Sunday, April 28, and the Listener's Forum will begin Sunday morning at 9:30 a.m. and run for about two hours. For more information, send a self-addressed stamped envelope to MVDXC, 4666 Larkhall Lane. Columbus OH 43229.

WRITING TO CLUB H.Q.?... If you re dropping a line to MTFDA Headquarters and need a reply, please make sure to include a self-addressed stamped envelope. This will make sure that you get a speedier reply. Remember that all DX clubs are staffed by volunteers. and appreciate such a gesture due to limited budgets.

AUGUST IS COMING...We hope to see you at this year's WTFDA Convention in New Orleans. Host Ron LeBlanc is planning quite a show, and it will present attendees with a rare chance to get a look at a shortwave broadcast station site, as well as local FM and TV. Then too, there's the legendary Gulf of Mexico, that little "DX pond" that is legendary among TV/FM DX enthusiasts. Don't miss this one!

۱	
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P.O. Box 130 Bronx, NY 10464

Swashbuckling Saul Chernos sends in his pirate report:

"Having heard two FM pirates here in Ottawa since September (this is being written in late October), and having learned of others nearby, I thought that some sort of list might help us in the event of an opening. The first I heard was CHZM on 100.0418, more commonly known as "Chazam." Since they've been busted by our version of the FCC, the CRTC, I can speak freely about them. Their fifty watts could easily go out on Es. Since very few stations operate on 100.0418 or even nearly in this area, they'd get out during a good opening. The antenna height was twenty-five feet above ground level. Their transmitter was in a suitcase (for easy escape). "John" gave a phone number, I called, and I wound up sitting in on a few broadcasts. Now that he's been busted (actually just a warning), he's quit.

But now I'm hearing "Radio Eight, 99.9" | CHZM was in excellent, but it only took me ten minutes to walk there. Radio Eight is about fifteen miles away and only using half power, and reception is being hurt by a

cable leak.

I haven't heard fifty watt unlicensed CKON in Cornwall, Ontario (Bill Hepburn, c'mon down from NWT). It is on an Indian reserve there. and the CRTC may ignore it as it's community-minded and serious.

I've heard rumours of others, though all yet unconfirmed by a good source (I plan to visit CKON, and will report reception in Narthern FM). Anyway, if you folks could send me info on pirates you hear, I'll provide an extensive list of what can be heard. To give you an idea of what can be heard, here are a few stations presently operating:

100.0 (99.9?)	Radio Eight	ONT	Ottawa
97.3	CKON ("Seekon")	ONT	Cornwall
89.7	Underground FM 90	BC	South Burnaby
91.5	KPRC	NY	New York City
91.5	WHOT	NY	New York City
91.5-91.9	Stereo Nine	NY	New York City
104.5(or.1?)	WTPS	WI	Milwaukee
106.1	KEXJ (KJ-106)	OR	(somewhere)
91.5	MusicRadio 92	NY	New York City
91.9	WTNT	NY	New York City

... plus many others. Please send info to my Northern FM DX address."

Saul, as long as you've brought up this topic, I might as well share my experiences with some of the New York pirates you've mentioned. "Stereo Nine FM" was the first pirate I ever heard - this was around mid 1981. They sounded very professional. They had a professionally sung ID, a deejay who gave a reasonable name, a reasonable format (oldies). They didn't sound completely professional, however, and so due to certain phone calls presented (often laden with obscenities), I figured them out. They gave a loop line number, which I called, and I talked to them for over an hour (I have this on tape). I subsequently talked to them several times over the next few months until April, 1982, when I heard them for the last time. They were off the air for a long time after that... evidently they're back on nown and they have been for some time, though I haven't heard them.

I also remember KPRC. The call letters stand for "Pirate Central." The ringmaster here was one "Pirate Joe" (unless I'm confusing this station with KSUN). He talked more than played music, mostly about radical politics. I also talked to him several times. KPRC was coming out on the same frequency as Stereo Nine, and they used the same phone number. The two station operators knew each other, and once did a broadcast together. I also haven't heard KPRC since 1982.

WINT is the other station here I have some familiarity with. I never heard them on FM, but I remember them doing a shortwave broadcast, and one on medium wave (somewhere slightly above 1600 Mhz).

This month's cover by Dave Nieman.

Saul also sent me a letter from Bill Nollman of Norwich. CT.:

"Let me first begin by introducing myself. My name is Bill Nollman. I am a student at the University of Hartford and an avid FM DXer. I've been DXing for four or five years, first on SW then BCB and now (for 2 years) on FM. I first heard of the WTFDA this past summer when I read about it in Popular Communications. I wrote for a VUD and was very impressed. Unfortunately, I felt my DX days were numbered as a dormitory is a rather sad place to DX... do I didn't join. Subsequently I joined the campus radio station (join the club-ED.) WWUH and met the CE and wTFDA member John Ramsey. He loaned me a stack of VUDs going back to 1981 which I have since scanned from cover to cover. I now cannot wait for some good weather, so I can go up to my roof at home in Norwich. and replace my old Crossfire (the model with the four FM arrows on each side) with either an FM yagi or my neighbor's used Crossfire (the largest model). They told me I could have the antenna rotor and amp. if I took them down. At home I've heard 23 states and this past Thanksqiving holiday, heard station number 200: WGFM from Schenectady, NY.

I also have a sub-hobby, as you might call it: collecting bumper stickers from radio and TV stations everywhere (join the club again-ED.). Total at present is near 685"

Albert S. Lobel adds another voice to the number of opinions expressed concerning my January VUD editorial:

" It seems like religion was the subject being discussed in the February VUD. I am not against religion being mentioned in any DX publication as long as it is done with respect for someone else's religion. We all should be able to express ourselves and our religious beliefs without having to feel that someone will arrest us for what we believe in. We are not living in the Soviet Union where the government frowns on organized religion. It should not matter if one is a Christian, a Jew, a Bhuddist or even an atheist. We are for the most part Americans or Canadians and we mostly live in free countries. I myself am Jewish: however I respect the Christian belief and feel that they have just as much right to say what they believe in as I do... I will not dislike another DXer just because he or she believes in Jesus Christ and I do not. Enough said!"

I'd like to create a function of this column that hopefully will benefit some people. As you know, the WTFDA has a yearly convention. This year's gathering will take place in New Orleans. Some of you may want to go but have a long distance to contend with. Some of you may need a ride. Some of you may want to find someone to take along with you and split gas expenses. See where this is getting at? If you are in one of the above situations, send me the info: where you are, what you are looking for (ride or rider), your address (with phone number if you like) and other pertinent info. I will print this info in upcoming issues. Hopefully, this will help facilitate the attendance of some club members, at this year's convention.

That's It For Now, 73.





FM NEWS

New FM Stations, Translators

Granted AL Birmingham W269AD 101.7 (WACT-FM 105.5 Tuscaloosa translator) AL Dothan WRWA*88.7 50000 h.v. 470'. Troy State U. (see "Deletions") AL Opelika W232AF 94.3 (WPCH 94.9 Atlanta GA translator) AK Anchorage 103.1 2500 h,v; -13' AK Delta Junction K219AQ *91.7 (KUAC 104.7 Fairbanks translator) AK Talkestna K205BB *88.9 (KSKA 91.1 Anchorage translator) AZ Flanstaff K296DB 107.1 (KKJJ 103.9 Payson AZ translator) AZ South Tueson K280CE 103.9 (KEZG92.1 Green Valley xitr)

CA Clarksville *91.7 385 h,v; -41', g; Educational Bestg. Foundation CA Bakersfield *89.1 13000 h,v; 500', White Ash. Fate of Bakersfield translators on 88.7 and 89.5

unknown 92.1 1700 h.v: 410 CA Prunedale KFMP *89.7 250 h.v: 1910', Ed. Assoc., displacing Salinas (see "Deletions")

CA Soda Springs (not the Soda Springs in N. CA, but a location near Mtn. Pass, 35-29-04; 115-33-12) K285BT 104.9 (KKGO 105.1 Los Angeles) CO Aspen K296CP 107.1 (KRMH-FM

93.5 Leadville CO translator) CO Breckenridge K296CL 107.1 (KRMH-FM) [[KRMP.FL CO Silverthorne K296CK 107.1 /

CO Telluride K232BW 94.3 (KKXK 94.1 Montrose translator) CO Vail K296CM 107.1 (KRMH-FM)

CT Hamden W218AA -91.5 (WJMJ 88.9 Hartford) (92.1 Safety Har.) FL Bradenton W244AN 96.7 (WXCR/ FL Holly Hill *91.5 1800 h,v; 290' Public Radio, Inc., g? [Bosty. Foun.

FL Marianna *91.1 385 h,v; 140', g, Ed/ FL Micanopy (29-30-12; 82-17-08, s. of Gainesville) 97,7 3000 h,v; 300'

FL St. Petersburg W244AM 96.7 (WXCR 92.1 Safety Harbor xitr) GA Dublin W272 - - 102 3 (WPGA-FM 100.9 Perry) [107.1 Gordon GA)

W276AN 103 1 (W0 YM-FM/ GA La Grange W288AV 105.5 (WPCH 94.9 Atlanta) [Ed. Bostg. Foundion. ID Twin Falls *91.7 600 h,v; 475, g; ID/

IL Springfield W207AD *89.3 (WJCH 91.9 Joliet translator) [high school IN Columbia City *91.5 2000 h,v; 2607 IN Muncie 104.9 summary decision affirming grant of 3000 h.v; 300'

IN Terre Haute *91.3 525 h,v; 325', g, Faith Ed. Foundation (Bosto, Foun. IA Keokuk *90.9 385 h,v; 135' g, Ed./ KS Coffeyville K285CK 104.9 (KCFO-

FM 98.5 Tulsa OK) BKCFO-FM) KS Independence K280CG 103.9 / KS Junction City K213AN *90.5 (KANU 91,5 Lawrence)

KS Lawrence K280CD 103.9 (KZOC 92.7 Osage City) [(McPherson) KS Salina K269CT 101.7 (KBBE 96.7/

KY Bowling Green *90.7 14000 h.v; 460', g, BG Community [Found'n. *91.7 620 h,v; 615', g, KY Ed. / KY Campbellsville *88.7 615 h,v;445', g, KY Ed. Foundation

(Columbia LA) LA Monroe K244BX 96.7 (KCTO-FM 103.1 / IN Valparaiso WLJE 105.5 1000 h,v (510')

K224BD 92.7 (KAAK 98.9 Great Falls) NE Albion KLBN 92.7 3000 h.v: 245'

NV Logandale K292CZ 106.3 (KFMS 101.9 NY East Hampton 96.7 3000 h,v; 200', initial / ND Pembina K272AC 102.3 (KVOX-FM 99.9 Moorhead MN) Stations, Inc. OH Toledo *90.3 \$, a, 600 h.v: 450', Family /

OK Bartlesville K218AM *91.5 (KANU 91.5 Lawrence KS) [Foundation OK Vinita *91.5 630 h.v; 260', g. OK Ed. Bost./ OR Brookings K288DC 105.5 (KYTT 98.7

Coos Bay) [Silva Foundation, gospel OR Newport *90.9 130 h,v; 815', Pat. Ann/ SC North Augusta W269AJ *107.1 (WMHK (Rapid City) 89.7 Columbia)

SD Edgement K216AP *91.1 (KBHE-FM 89.3/ SD Lead K2208A *91.9 (KBHE-FM) SD Pringle (43-44-43; 107-28-50) K220AZ

*91.9 (KBHE-FM) SD Reliance KPLO-FM 94.5 35000 h,v; 900' SD Spearfish K216AD *91.1 (KBHE-FM) TX Brownwood *90.3 550 h,v; 310', g, Waco

Ed. Broadcasting Foundation TX Comanche-Brownwood K224BP 92.7 (KIKX 102.3 Merkel) TX Kerryille K237BR 95.3 (KHLC 98.3 Band-/ OH Elyria WBEA 107.3 500' (50000 h,v)

TX Lufkin *91,1385 h.v; 175', Ed. Bost. Fou,g OH Kent WNIR 100,1 3000 hv (320') TX Priestine *91.5 550 h,v; 520', g, Waco " TX Ranger-Eastland-Cisco K221BZ 92.1 (KIKX PA Middletown WMSS "91.1 650 h,v; -88" 102.3 Merkel) [104.1 Brownwood TX) TX Stephenville K228BY 93.5 (KXYL-FM /

TX The Woodlands (near Tamina TX, at Harris County Line) K221CB 92.1 (KYKR 93.3 Port Arthur)

TX Tyler K203AD *88.5 (KVTT 91.7 Dallas) V1 St. Johnsbury 105.5 400 h,v; 710' [Fou. TN Memphis WEVL *88.9 12500 h,v; 245' VA Franklin *91.7 550 h,v; 225', g; Alpha Ed./ TX Abilene KGNZ *88.1 75000 h,v; 710' VA Tappahannock W276AJ 103.1 (WYFJ 100.1 Ashland)

WA Yakima K285CJ (KZHR 92.7 Toppenish) WY Casper *90.3 680 h,v; 1680' Heritage Ed., g WY Laramie *90.7650h,v; 1090', " MT Butte *90.5 665 h.v. 1860', q. Ed. Bc. Fou. WA Ephrata KGDN 95.9 1500 h.v. 460' (Great Falk) Bozeman)

MT Lewistown K228BZ 93.5 (KAAK 98.9/ MT Missoula K285CL 104.9 (KAAK) MT Red Lodge K269CU 101.7 (KBOZ-FM) Facilities' Changes Granted

AR Berryville KSCC 107.1 1108 h.v; 540' CA Los Angeles KIQQ 100.3 5300 h,v; 3000' CA Palm Springs KPLM 106.1 390' (50000h,v) CA Paradise KNVR 96.7 330' (3000 h,v) CA San Luis Obispo K261- - 100.1 (from

K232AH 94.3) CA San Mateo KSOL 107,7 8900 h.v (1160') FL De Funiak Springs WQUH 103.1 270' (300 (3000 h,v)

FL High Springs WKAE 104.9 1700 h,v; 450' FL Miami WTMI 93.1 adds directional ant. FL Miami Beach WLVE 93.9 95500 h.v. DA (directional antenna): 1005' FL West Palm Beach WNGS 92.1 2250 h,v /

GA Gainesville WBCX *89.1 835 h,v; 545' ID Pocatello KPKY 94.9 100000 h,v (1000') IL Decatur WJMU *89.5 adds vertical

IL Park Ridge WMTH *90.5 (from 88.5) 8 watts h,v; 105'

Bruce F. Elving, Ph.D., Editor 4515 Avenue "E" Kearney NE 68847-2610

Use your 9-Digit ZIP+4 when reporting. To find it out call 1-800-228-8777)

MO Neosho *91.5 385 h,v; 120',g; Abundant Life KS Hays KHAZ (not yet on air) 99.5 97000 h,v; 615' MO Thaver 99.3 3000h.v: 300' [Bosta, Found, KY Highland Heights WNKU *89.7 320' (14000h.v. DA) MT Rozeman *91.1 690 h.v. 585', a. Mt. Ed. / KY Owensboro WBKR 92.5 100000 h.v (380') LA Lake Charles KHLA 99.5 100000 h,v (400') ME Brunswick WCLZ 98.9 50000 h.v (400') MA Northfield WNMH *91.5 240 h.v: -310' Las Vegas) [decision, which can be reversed. MA Waltham WCRB 102.5 15000 h,v (920'), see note on this station's Cape Cod coverage below ND Mandan K221CA 92.1 (KHHT 97.1 Minot) MN East Grand Forks KRRK-FM 104.3 (from 103.9) 100000 h,v; 350'; nonID assumed retained MN Rochester KNXR 97.5 100000 h,v; 1325' (48 miles primary, 97 miles secondary) MS Laurel WNSL 100.3 1065', 325 meters, "not feet, It and WHER in Hattiesburg will be on the same tower

near Filisville MS"writes Larry Fuss. [(100000 h.v)] MS Vicksburg WKYV 106.7 1060' (100000 h.v) MO Crestwood KSHE 94.7 1020' (100000 h.v) MT Helena KMTX-FM 185.3 1905' (100000 h.v) MT Missoula KUEZ 102.5 720' (25000 h, v) NV Carson City KWNZ 97.3 87000 h,v; 2110' NJ New Brunswick WMGQ 98.3 1250 h,v (530') NM Socorto KHBN 92.7-135' (3000 h,v) NY Canandaigua WFLC 102.3 300' (3000 h.v) NY Garden City WRAU *90.3 1100 h.v: 160' NC Forest City WBBO 93.3 1900' (100000 h.v) NC Laurinburg WSTS 96.5 100000 h,v, DA, 615' NC Raleigh WQDR 94,7 DA (directional antenna) NC Robbinsville WCVP-FM 95.9 330' (3000 h,v) ND Mandan KNDR 104.7 (from 104.9) 100000 h.v; 850 [era) OH Cincinnati WRRM 98.5 17700 h.v (810')

> PA Philadelphia WXTU 92.5 16000 h,v; 900'; transmitter to 3 mi NW Norristown, and 8 mi. short-spaced to WKQV 92.1 Vineland NJ (to be on antenna farm; possibly with directional antenna to protect WKQV)

> OR Klamath Falis KJSN 92.5 3000 h. 2190', deletes vertical

SC Anderson WCKN 101.9 990' (100000 h,v) SD Sioux Calls KRSD *88.1 vertical TX Harlingen KIWW 96.1 1160' (100000 h,v) TX San Angelo KIXY 94.7 110' (100000 h,v)

VA Colonial Heights WKHK 95.3 2500h,v; 330', now k music according to report in VUD column last month VA Woodbridge WPKX-FM 105.9 17600 h.v; 670' MT Great Falls K240BH 95.9 (KBOZ-FM93.7 WA Spokane KICN 98.9 94000 h.v; 1610' (going stareo?)

WV Elkins WELK 95.3 330' (3000 h.v) WV Romney WJGF *89.7 -345' (110 watts horizontal only) WI Cleveland WKTT 103.1 330' (3000 h,v) WI Milladore WGNV *88.5 (not 89.5) 2000 h,v; 500'

WI Ripon WRPN"-FM" *90.1 25 230 h; 155' WY Laramie KRQU 102.9 100000 h,v; 1220' WY Newcastle K280CF 103.9 (from K244AS 96.7; see also "Deletions")

FACILITIES QUESTIONABLE - CT Fairfield WVOF *88.5 "plans to be at 100 w by Sept. '85. CP issued resolving conflict with 88.5 WPOB Plainview, 88.5 WKWZ Syosset NY, and an application for Stamford CT on 88.5." Also not known are any new powers for the other three,

and if Stamford has been granted. Call Letters Assigned or Changed AL Auburn-Opelika 97.7 WKKR (WFRI)

AK Fairbanks *91.5 KUWL [(380) AZ Phoenix 101.5 KONC (KHEP-FM), still c, still †M SCA, but planning a 92 kHz rock SCA, Seeburg music services AZ Prescott Valley 106.3 KIHX"-FM" AR Paris 95.3 KCCL-FM (from KXXS) CA Burney *90.5 KIBC (from KTIQ)

CA Kernville 102.3 KJLU CA San Luis Opispo *88.5 KSLP CO Starling 104.7 KNNG (KSTC-FM) FL Gainerville *90.5 WYFB FL Key West *90.9 WJIR (from WMUO)

FL Panama City 106.3 WLVV FL Pomosno Beach 102.7 WMXJ (WCKO) GA Valdosta 96.7 WZLS IL Kenkekes 99.9 WBSW (WBYG)

II Rushville 96.7 WKXQ IN Columbus 101.5 WKKG (WCSI-FM) IN Huntington 103.1 WIDE (W-103?); from WJRY

IN Versy 95.9 WKID (WCVK) KS Larned 96.7 KQDF"-FM" (KANS-FM) [101. MI Otsego 160.9 WQXC"-FM" (WAOP), \$, r, Quixie/ their sister station in Muskegon is not country.) MS Meridian 101.3 WJDQ (WJDQ-FM); nonID is

assumed to have been dropped MS Oxford 107.1 WKLJ MO Brookfield 97.7 KZBK (KOMO); back on air

MT Rozeman 95.1 KHTK NJ Cage May Court House 105.5 WBNJ NY Port Jervis 96.7 WTSX (WDLC-FM)

NC High Point 100.3 WOJY (W-Joy?)? from WGLD NC Mentes 99.3 WVOD OH Clyde 100.9 WLCO (WMEX)

OH Milford 107,1 WRXY"-FM" (WLVK) OK Mangum 92.1 KZKQ OK Woodward 92.1 KMTY"-FM" (KDAA)

OR Coos Bay *89.3 KCOO

OR Redmond 107.5 KLRR (KPUP)

SC Georgetown 97.7 WMXX (WGMB) SC Wedgefield 99.3 WIBZ

TX Floydada 95.3 KKAP-FM (KLLP) TX Lubbock 102.5 KFYO-FM (KRUX) TX Paris 103.9 KBUS

TX Port Lavaca 93.3 KKBH (KAOC-FM) TX Senuin 105.3 KSMG (KWED-FM), to rock WI Milwaukee 95.7 WZUU-FM (WZUU): nontD

assumed dropped I translators. WY Casner 94.5 KGRQ (KATI-FM): affects / PR Manati 96.9 WNRT (WMLD)

Formats/Networks AL Albertville WQSB 105.1 no S network (has

CNN news, a network I don't list) AL Alexander City WRFS-FM 106.1 \$, now r[ock] AL Montgomery WRAM-FM 98.9 no N network

CA Cambria KOTR 94.3 k[ountry] CA Eureka KEKA-FM 101.5 mk, not just k CA Mariposa K288CD 105.5 retains KEBR 100.5

Sacramento (not KEAR San Francisco or KEFR Le Grand) (Santa Ana) CA Oxnerd KDAR 98.3 rg (like KYMS 106.3 / DC Washington WDJY 100.3 rs, "100 Hits," not

FL Fort Lauderdale WJQY 106.7 rm GA Augusta WGUS-FM 102.3 E net (assumed),

no S: WFMG 105.7 now rock GA Valdosta WVVS *90.9 p[rogressive] KS Phillipsburg KKAN-FM 95.3 k

ME Portland WGAN-FM 102.9 "loud, noise, live disc jockey" r, 24 hours. "What a shock to almost all dentists, barbers, corner stores, etc. that normally had WGAN-FM on all day. . . New WGAN owners claim survey showed need to change; now we have 20 or more rock sta-

MD Bethesde WTKS 102.3 mr, "Magic 102" strict, with calls given only on the hour MA Barnstable WQRC 99.9 b , sold for \$4.7 million because old owners hold CP for low-power TV and

want high power in face of challenge to their TV status by another company which wanted to build a higher power station on channel 58. Did not want to sell the FM, but had to decide between owning TV or FM in the same market. Yet, KPLO -FM is allowed to build in Reliance SD, when

owned by a TV; something's inconsistent.

MI Allendale WGVC-FM *88.5 ir MI Grand Haven WGHN-FM 92.1 rm MI Grand Ranids WGNR *88.9 Mutual network WFHB *88.9 is, no stereo

W.IEM 93 7 D (CBS RadioRadio) network WI HT 95 7 no network WGRD 97.9 no network

WCUZ-FM 101.3 I network (ABC-Informat'n) WVGR *104.1 cj (& WUOM 91.7 Ann Arbor) MI Holland WKLQ 94.5 no network MI Muskegon WQWQ 104.5 | network

WMUS-FM 106.9 "is, has been, and will continue to be country (k)... where did you get the info on them that said rock?" (From talking to people at KODS 94.9 Duluth MN, who said MI Whitehall WRNF 95.3 D network (was Y)

MN Duluth KQDS 94.9 rock NE Grand Island KROA 95.7 G network (from U) NE Keamey KQKY 105.9 A-has Nick Alexander's commentary about 9 am [nver been b" NE Peterborough WMDK 92.1 r. "92-MDK. "has/

NC Asheville WKSF 99.9 r. "Kiss 99", reneat. NC Releich WKNC *88.1 p (hard rock) OH Akron WONE-FM 97.5 m (like its sister station, WTUE 104.7 Dayton) SC Anderson WCKN 101.1 r (from m): noNONid

TX Waco KWTX-FM 97.5 r, not m TX Wichita Falls KTLT 106.3 r, "Light 106" OR Portland 101.1 KYTE-FM (KRCK); now classical WA Seattle KEZX 98.9 p[rogressive rock] WV Morgantown WVAQ 101.9 r Stareo

SC Charleston WXTC 96.9 rm

WI Ladysmith WLDY-FM 92.7 on air, E net, no/ WI Washburn WBWA 105.9 still has nightly Parkway classical music, color it re

AT Caigary CJSW 90.9 n FMistakes-9th ed. FM Atlas IL Flossmoor- p. 42, not "Floosmoor" PA Mount Pocono p. 23, not Mt. Pocomo

Multi-City Identifications In Use

GA Cochran WDCO-FM *89.7 adds Macon GA Forsyth WFNE 100.1 adds Macon MO Joolin KKUZ 102.5 adds Pittsburg KS NC Burlington WZZU 93.9 drops Graham as a community of license

SC Gaffney WAG! 105.3 adds Spartanburg-Greenville and N network

SC Greenville WLFJ *89.3 adds Spartanburg-Anderson, correcting (p. 6) Oct. VUD report saving only Anderson added TX Seabrook KYND 92.1 IDs with Houston. / VA Richmond WRVQ 94.5 adds Petersburg-

Hopewell-Colonial Heights WY Laramie KROU 102.9 adds Chevenne

OFF AIR, (Never been built, but CP believed to be still valid): MT Baker K280AQ 103.9; I wonder if all KRCS translators are

similarly off the air)
NE Aurora KIAE 103,1—being sold Deletions (assumed)

AL Dothan W204AA *88.7, replaced by fullpowered station (see FM Station Grants) CA Salinas *89.7, replaced by Prunedale 89.7; both owned by Prunedale Educational Found. WY Newcastle K280BC 103.9, assumed deleted because of another Newcastle translator moving to 103.9 (see "Facilities Grants")

DELETIONS?

AZ Wickenburg KHBC 105.5

FL Bradenton WJIS *88.1, both applications dismissed for extensions of time to build MS Jackson WWCJ *89.3, application denied to replace expired permit

SCA-mostly at † 67 kHz AZ Payson KKJJ 103.9 music (and to add + rock music 92 kHz; 67 khz softer music) April, 1985

CA Arcadia KMAX 107.1 no SCA (had Korean); much of that is now on main channel CA Long Beach KLON *88.1 no SCA. "FM-88" CA Los Anneles KKHR 93.1 no SCA (carrier) KHOF 99.5 still has +E[thnic] KHS-FM 102.7 on SCA KMGG 105 9 no SCA KRTH 101.1 †X (data) CA Pasadena KPCC *89.3 no SCA CA Riverside KDUO 97.5 no SCA

KLZZ-FM 106.5 no SCA CA San Fernando KGIL-FM 94.3 no SCA (noen carrier only)

CA San Diego KFMB-FM 100.7 †X

CA Santa Monica KCRW *89.9 †M ("penny music-marches, waltzes and other floud, boisterous' music"-Muzak's "foreground" music?) KSRF 103.1 no SCA GA Smyrna WQXI-FM (letterhead only says

"Atlanta") 94.1 †X (Telmet America stock quotation service at 67 kHz with 71 kHz for 'mark" and 57 kHz for "space," using frequency shifting) (carrier only) KS Hutchinenn KSKU 102.1 no SCA (noen / OH West Carrollton WQRP *88.1 talking book for blind, coming soon; for now it is one hr. per day on the main channel

TN Germantown WEZI 94.3 no SCA TN Jackson WJHR 103.1 no SCA, "I called the station and nobody knew what it was used for, so I guess that they don't use their SCA," says our reporter

MEXICO Tijuana BJN XHRM 92.5 no SCA XLTN 104.5 no SCA, "Radio 1 atina"

\$tereo or to be \$tereo

AL Birmingham WGIB *91.9 CA Lakeport X KXBX 98.3, rock LA Ravville KTJC 92.1 a. no network, is considering a paging SCA

Mi Cadillac WITW 107.1 MN Minneapolis KFAI *90.3 TN Minor Hill WLLX 92.1, r and k TX Corpus Christi KBNJ *91.9, Spanish

geopel, on air TX Giddines KGID 101.7 TX Muleshoe KMUL-FM 103.1

NonIDs in Use, not just Slogans

AL Birmingham WAPI-FM 94.5 I-95 (not FM/ CA Hanford KLTK 107.5 K-Lite, TX

("strange-sounding")
CA Los Angeles KMET 94.7 K-Met DC Washington WASH 97.1 no nonID; slogan is "97 WASH" with letters spelled out

GA Augusta WBB Q-FM 104.3 The Q IN Evansville WNIN *88.3 FM-88 IN Fort Wayne WMEE 97.3 The Hot FM

WXKE 103.9 Rock-104, r IN New Castle WMDH 102.5 Country-102 IN Rockville WAXI 104.9 Waxy MA Tisbury, Martha's Vineyard WMVY

92.7 Album Radio, out of alphabetical order p. 119 FM Atlas. [-FM (strict) MA West Yarmouth WRZE 94.9 Breezy 95/

MI Cadillac WKJF-FM 92.9 93-KJF, O net, r MI Grand Rapids WGNR *88.9 89-FM, M net MI Twin Lake WBLV *90.3 Blue Lake Public Radio

MI Zeeland WZND 99.3 no nonID OK Healdton KZEA 105.5 KZ-105 (strict), not known if stereo or not

OH Bellefontaine WTOO 98.3 Hit Radio 98, adds Indian Lake OH to hourly ID TN Chattanooga WD OD-FM 96.5 noNONid TN Dyersburg WASL 100.1 adult-contemp.

-type r, now "100.1-FM" TX Belton KTQN 106.3 Q-106, rock NE Crete KTAP 103.9 K-104 (nat strict), E readers' reports and fm industry news

be published in Monitoring

TX Houston KILT-FM 100.3 no "Texas An SCA customer sent me an FCC-FM 100." but uses Kilt FM 100 TX Longview KYKX 105.7 Kicks 105 (not Kicks 106)

Icom R71A with its narrow-WI Wausau WYCO 107.9 r, Y-108, \$ on band FM module to tune in Wi Wausau WYCO 107.9 r, Y-1UB, 3 on is and claiming tremendous coverage of Warrenton WMJR 107.7 Magic Gold FM mode, tuned to 67 kHz. I with the R71A in 107.7, mostly strict, with calls rarely sennounced, except on the hour. If a mode of the COM's wif an extrempting to rim-shot Washington with a rock oldies format to compete warra.AMLFM 115 not 115

"Estereo Novienta," now r[ock]

with WXTR-AM-FM... It's not working. You've got to get ten miles out into the western suburbs to receive it reliably.

AT Fort Mc Murray CKYX 9.7.9 KYX./
ON Toronto CHUM-FM 104.5 r (not p), should be listed under "Formats" and several data transmissions. on Toronto Unum-rm into it into an and several data transmissions should be listed under "Formats" I built a simple SCA interface, MEXICO Guadalajara, Jal. XHOY 90.7, consisting of a capacitor and Jresistor, into a plastic film

canister," reports Bob Parnass, AJ9S. His article then shows how to get the ICOM to read "0" on its digital display and then tune the main knob clockwise to get to 67 kHz, or whatever other SCA

frequency is desired.

WBUR *90.9 Boston plans to move to a 1,000-foot tower in Needham MA, not far from where Larry Weil works. "They are raising funds for this through their 'buy a watt' campaign, charging \$40 per watt. I am planning to travel to Europe this summer, and will be taking my trusty Sony ICF-2002 along. Do you know of any guide to European FM (or AM) stations which gives more detail than the WRTVH (hopefully published in English)? Also, since radio receivers are required to be licensed in Englad, do you know if it will be necessary for me to obtain a temporary license to bring in my portable?" Readers who have traveled to Europe with radios may wish to advise Larry direct at: 15 Davis Rd., A12, Acton MA 01720. An article from Cape Cod Times by Carole C. Shore, Centerville, "Upset at news of FM application":

"I have just read [about] the application for a permit by 'Primero Communications' with the FCC for a new class-A FM broadcast station to operate at 102.3 MHz, from the high area of Truro. It would have . . . 328 feet above average terrain. . . it translates into serious news for those of us who enjoy the only 24-hour, allconcert station at 102.5-WCRB Waltham. . . While not all Cape residents receive WCRB without some interference, I wouldn't live where I do if I could not receive its signal. Ironically. . . WCRB was finally getting long-sought approval from the FCC for a power boost which will make its signal more available on the Cape (see "Facilities Changes" above). A protest to the FCC is not the most effective way to voice your feelings if you are also unhappy by cert programming, and write to Congressman Gerry Studds, 1501 Longworth House Office Building, Washington DC 20515."



PIERCEVILLE, KANSAS 67868 316-335-5120

-is going ahead with plans to build KZNA *90.5 Hill City KS, as part of an expansion plan to extend the signal to 275,000 people and broaden the income level. "This plan includes KZNA plus additional translators in Oklahoma, far northern Texas, Colorado and southern Nebraska (McCook and Holdrege as I recall)," writes executive director Quentin Hope.

Also on the translator front, WRAF *90.9 Toccoa Falls GA is planning one in Wilbourne GA, to have a 190' tower; Wilbourne is said to be an Atlanta suburb; he claims they have a construction permit, but I have not even seen an application for it. Our repor-

ter is a student at Toccoa Falls College.

Alabama's Keith Pugh likes the 9th edition FM Atlas: "Like the part you did on Edwin H. Armstrong. I read Lawrence Lessing's book during the summer and really enjoyed it. [I was not aware his book, Man of High Fidelity: Edwin Howard Armstrong, was still in print.

April. 1985 KSCV *91.3 Kearney NE cut back to less than 10 watts effective because engineer did not file in a timely fashion the results of his proof of performance test for 1,000 watts back in December. Was 1,000 watts only for a short time in December. Station has been off repeatedly since, now receivable only within six blocks on a good car radio; mostly broadcasting to a cable audience via Kearney's two cable systems. FCC has accepted for filing its application for reinstatement of the 1,000 watts. Before I forget, here is the list of contributors to the March FCC/ petiore I lorger, nere is the list of contributors to the March FCC-Frank Aden, Jr, Boise ID-P. L. Beerings, Spring Lake MI, John Clark, Greenfield Center NY; John F. Cornba, Jacksonville FL; Eugene E. Cooper, Cornpoc CA, John Ebeling, Bloomington MN; Max Engel, Brooklyn NY; Wendell Ford, Wesrville IN; Al Germond, Columbia MO; Bob Gilbert, Aubum ME; Loyd Glochenour, Reanoke VA; Bob Hempel, Mansson, IA; W. R. Hepburn, Resolute Bay NWT; John Hickman, Halls TN; A. H. Holliter, All Control of the Con Annandale VA (who is very satisfied with his G-E SCA radio); J. M. Jefferson, Plassanton CA; D. Johnson, Little Rock AR; Nick Lombardi, Atlanta GA; W. R. McIntosh, Granada Hills CA; Peter A. Nolan, Galveston TX; Wal NA; W. H. MCINTOM, Granasa Hills CA; Peter A. Nolen, Galveston 1 X; Water Patton, Willowdale ON; R. H. Perrin, Wells ME; Jim Pizzl, Lovington NM; John N. Ramsey, West Hartford CT; Richard Rees, Jersey Shore PA; Richard Ridz, Springfield MA; Frank E. Rowell, Dafter MI; John D. Small II, Utica IL; Edward M. Warner, Franklin NC; Larry Well, Acton MA; Phil Wells, Airle reginer KLZZ-FM San Diego CA.

Obviously, you can see I have the IBM Composer fixed. But after running up a \$175 repair bill I may not always use this machine, and may often use the Hermes, since long typing jobs on it tend to wear it out. It is very old and fragile, and replacement parts are getting harder to find.

Atlanta's Nick Lombardi writes: "I trust you have set Ivan Berger straight (March Audio, p. 38) regarding the price of your Atlas, He must really have an old one!"[I am just mailing out books at the \$5.95 price, as an introductory gesture-besides, the current edition is no longer fresh, so if anyone reading this wants a bargain-check out Audio!] Nick goes on: There are some interesting items on FM in that issue. And the March Consumer Reports article on car stereo also has some interesting things to say about FM." [Yes, it even compares the performances of factory FM with many after-market models.] "Atlas error: AL Cullman page 81 '-FM' omitted from WFMH-FM 101.1." Nick sent technical details on the SCA system used by WQXI-FM and comments, "Although centered on 67 kHz, the SCA varies between 57 and 71 kHz, and seems difficult to receive cleanly on SCA adapters having a tuned preamp stage ahead of the 565 IC. Presumably the units you sell (which have no preamp at all) should work OK, as would the circuit Tim McVey discusses in the last two VUDs (which has a broadband preamp)." And he sent an article describing the Datasneed, Inc. (800-S-MARKET)—actually an ad-from the March Sharper Image catalog. "They don't yet serve Atlanta." And: "There seems to be some confusion regarding the correct use of the †G SCA and the G network symbols. When used as a network symbol, the G is supposed to mean Moody Broadcasting Network's (MS News (only). On the other hand, the †G SCA applies to any gospel-type programming, regardless of who the supplier is." (But here, again, Moody is in the forefront, offering via satellite its network service, which probably is identical to the "G" network news, at least at times. I know I got KTJC 92.1 Rayville LA interested in carrying Moody's network on SCA, as is WJLM Salem VA. Groups in Pekin IL and Sault Ste. Marie MI are offering Moody's SCA service, too. And Family Radio is not far behind, with WFME *94.7 Newark quite aggressively promoting its Spanish/gospel SCA service locally.] On air are WJSP-FM *88.1 Warm Springs-Columbus GA and WDCO *89.7 Cochran-Macon GA, each said to cover an 80mile radius. Four more stations are planned-in Waycross, Athens and Tifton (that's only three; the fourth is not mentioned), with studios in Atlanta, but Peach State Public Radio eventually hopes to originate local programming in each area.

The tower of WAUR 107.9 Aurora, in use only about 60 days, and giving good coverage into Chicago, blew down in a recent storm. It is on the air, but with reduced coverage until the tower is replaced. A call change happened at 105.9 Elmwood Park, with a reporter checking into whether it is WCGK. WGCK or WCKG (WCK6 nonID?). No more G-106. Said to be m. "They are running a number of promotions. . . from noon to 1 p. m. they have a program called the Rock 'n' Roll Diner where all the music is by request. At midnight they will play an album all the way through." Flip through this column next month to find out their call letters for sure.

Two readers sent information on the failure of the master FM antenna on the Empire State Building. The article listed which New York stations transmit from the ESB to show disparities between that list and the list on p. 21 FM Atlas. Areas of difference involved WNYC-FM *93.9, which is presently on the ESB, but my book correctly indicates its construction permit status as moving to the World Trade Center. I checked geographical coordinates on all the ESB and WTC stations, using the NTIS/FCC microfiche just to be sure. Also not on the WTC, but on ESB (my Atlas is incorrect for): WPLJ 95.5, WYNY 97.1

Bill Fahber, editor 336 Atlantic Street Bridgeton, NJ, 08302

and WCBS-FM 10.1. Those stations have their own antenna on the ESB, with taller heights than the 12 now using the master antenna system designed by the Alford Mfg. Co. I recall seeing the master system, with slant-polarized elements encircling the building just below the 102nd floor observation deck. This system gives each station an average 5400 watts horizontal and 3800 watts vertical at 1220 feet above average terrain. It was put into place in the early 1960s, and I am sure if they were to do the same thing today, crossed elements (+ shape) would be employed to ensure the same vertical as horizontal radiated powers. Eric Fader feels WAPP 103.5 is also on the Empire State Building with its directional antenna, but I contend it is on the WTC.

Oh, yes, WÖXR-FM 96.3 is also on the Empire State Building, not the World Trade Center, as I had it. Anyway, the 12 were off for two periods coming to about an hour Feb. 9 in the afternoon; I wonder if any NY area DXers got to hear anything unusual in the line of DX at that time?

Sunngroup of Nashville announced it is selling WYHY Lebanon-Nashville and WMYU/WSEV AM Sevienville-Knoxville to Seven Hills Communications Ltd. of Cincinnati of \$7,500,000, including cash and assumption of certain debts and liabilities. It continues to operate WERC AM and WKXX (FM) Birmingham AL.

An item from the public broadcasting paper <u>Current</u>, March 12, "College station given fake construction permit, attorney indicted in fraud." It involved WWIH *90.3 High Point College (NC), with the "Cyr granted in 1983 by Clifford J. Bond III, a former FCC attorney, who sold the college the fake document. It actually operated at 100 watts for a few weeks in 1983, but is back to 10 watts. WWIH has since applied for 100 watts, and has learned it will have to buy a directional antenna and move its transmitter about one mile south of its present location, in order to avoid interfering with other stations.

Sending much of the CA FM and SCA information was W. R. McIntosh, who is "delighted with the SCA-equipped GE 7-2955 portable receiver you sent to me. Its sensitivity and selectivity on FM surpass anything that I have ever found before in a commercial portable radio. We have six other FM radies on the premises and in our cars, and it will surpass every one of them in pulling in and separating distant stations except for the CEI/Watkins Johnson RS-111-1B which can be set to a sharp 75 kHz bandwidth," [This surprises me, because I regarded the GE 7-2955 portable radio (it's the one with VHF and UHF TV audio as well as FM and AM) as just an ordinary radio; it's a discontinued model, but I can still get up to 100 more of them.] He's discovered that the radio decodes somewhat KTLA channel 5's TV "third channel" at 77 kHz. "I do not speak Spanish, but my wife is bilingual. We tuned very carefully and did just manage to pick up the Spanish channel. It was obviously 'out of tune' but reception was good enough that Betty could understand the Spanish on both the 'Love Boat' and the news broadcasts. Apparently the 77 kHz carrier is close enough to the 67 kHz SCA frequency to allow us to fudge it a bit. . ."

"The present trend indicates that in a foreseeable time the U.S. will undoubtedly be converted from AM to FM. The reason is simple: once a radio set buyer has listened to the much clearer. practically noiseless and staticless radio reception of an FM receiver, he will shy away from AM. This is indeed what is now happening all over the U.S. It also explains the present FM boom. both in transmitters being erected and receivers sold. . . Instead of strictly independent FM programs, the present trend is unmistakably toward a solid duplication of those broadcast by AM stations. More and more do AM broadcast station owners invest in FM transmitters. And as soon as they do so they now invariably duplicate the programs which are broadcast by their AM transmitters over their FM transmitters as well, even though this means a sacrifice of high-fidelity transmission to ordinary network standards (100-5,000 cycles). . . The American public has been educated to the big-feature, big-star radio programs. If the FM stations do not broadcast these features, then FM would be doomed to failure. . . That the public's listening trend is unmistakably toward FM is clearly shown by the radio receiver manufacturers. . . Finally, all the newer and better television sets are also equipped for FM, making reception much more pleasurable. How long will it be till the entire U. S. broadcasting facilities have been completely converted to FM? From about 8-10 years might be a conservative estimate for 85% to 90% of our transmitters. But from 10% to 15% of them may remain AM for much longer-in fact some of the larger stations may continue to transmit AM indefinitely." Guess

when published? I'll print the answer next month!

From a trip to southern CA, John Jefferson reports not heard
and positively not on the air. KSCA 88.7 and K208AD Santa Barbera, K213AR Las Cruces, K216AG Cayucos, K224BO Naples,
K249AZ Morgan Hill, (new) 101.3 Los Osos, (new) 103.9 Taft,
K285BI Castaic, KZAY 105.3 Delano and oldtimer K288CD Mari-

posa, which used to cover many miles of I-5. John suggests the latter may have been off because of temporary loss of primary signal, "KEBR 100.5 is notoriously flaky due to low HAAT. Not heard and maybe not on: K204AH Bakersfield, K210AI Poso, K211AR Clovis, K219AO Fairmont, K220?? Delano and KCRP 105.5 Rosamond (not a whisper at Gorman where KKZZ 106.3 Lancaster boomed in)." [I have no record of a Delano CA translator being authorized on *91.9 or any other channel.) Another CA source says K232AY 94.3 Fresno on the air, and John heard it intermittently for several miles on I-5. He also got co-channel KOTR Cambria weakly in Paso Robles, but more clearly along much of the coast from Cambria to Pismo Reach KKIIS 98 1 San Luis Ohiena heard from Bradley in the north to somewhere south of Santa Maria ("much better coverage, seemingly, than lookalike KSLY 96.1"). And KLOI 107.1 Grover City heard with some signal north as far as Paso Robles and good coverage of most of the San Luis Obispo-Santa Maria area. K215AG Solvang barely heard in Buellton, "but usable in stereo in Goleta with a 3000-4000' mountain range between there and Solvana, suggesting a high transmitter site," K219AL Helm heard clearly over a 40-mile stretch of I-5 and competing with KSJV *91.5 Fresno for maybe 20 additional miles.

Different ABC networks may be found on the SCAs of various FM stations, according to a tape Milke Dukin, Ladysmith Wi,sent. WLJY 106.5 Marshfield WI has the Information and Talknets, while WBIZ-FM 100.7 Eau Claire has ABC-Entertainment (now moved to the top of the hour: same time as ABC-I) and the Direction network. Presumably, Paul Harvey would be on the ABC-Entertainment satellite/SCA system. WRHN 107.9 Rhinelander WI now on 100.3, having moved from 107.9, to make way for Wausau's WYCO (see "Siogans, NonIDs"). He reported WTBX's Duluth MN translator off the air, while John Ebeling says it is still on 96.7, not yet having gone to 97.7.

KGAC *90.5 St. Peter-Mankato MN was to have gone on the air in late March, while WIRR *90.9 Buhl (transmitter site) and KRSD *88.1 Sioux Falls should be on later this spring; and a KLSE translator in La Crascent MN (La Crosse WI) also expected on last month—K269 K 101.7. This information from Robert Baker, who is not interested in my messing with his Carver receiver for SCA. "I still like my Carver receiver every much. I don't know how well it will work for DX, but for slent stereo, (noiseless) recention of distant stations, it is a miracle!"

KCNT *88.1 Hastings NE is "still trying to get operating hours extended, but there isn't much likelihood of it in the near future, because the budget just won't stretch that far," writes their director. They did build a new production studio, and will do business and consumer video cassette recordings. Tim McVey might be pleased to know the 565 IC is being touted as ideal for decoding TV's Secondary Audio Programs. A CA outfit is offering SCA receivers, solid state (300 of them), best offer over \$10 each. M. Starling, 13220 Avenida Grande, San Diego 92129 (619-484-5037). John Ebeling offered \$15 for one.

On air in NM is KMTH *98.7 Maljamar. "KMTH facilities a waste of money! KENW 89.5 could have moved south to KENW-TV tower with about 800 AAT (it's only 185' AAT) and covered Clovis-Portales, etc. with one station... A pure weste of taxpayer and donation monies!" tumes Jim Pizzi. [As I see, Jim, it looks like they do cover different markets and even at 800', KENW's primary would only go 42 miles, which would fall far short of serving the Clovis-Portales market. Ordinary Istaners don't have the equipment we DKers do, and broadcasters want at least a 60 (preferably 70) db signal to penetrate their intended markets!

Glenn Hauser's <u>World of Radio</u> mentioned WWLR *98.3 Lyndonville VT having trouble. Faculty wented it shut down because of fear of radiation (to their bodies). But administration backed the station and did not move its transmitter or shut it down—just moved offices of complaining teachers. Glenn said the last two hours of Ray Briem show, not heard in most places, can be heard wie tape from Bill Coleman, Jr., 114 Circle Drive, Rocky Mount NC 2781, but youll have to supply tape. He also kindly mentioned the Atlas and SCA catalog on World of Radio.

He sito kindly mentioned the Atlas and SCA catalog on World of Radio. About time to give Composer a rest and list this month's contributors: Kurt Anderson, WMNR Montroe CT; R. H. Baker, Humboldt IA; Brain Blair, Dayton OH; Jeffery Blair, Lime OH; Phill Boerma, Spring Lake Mi; W. O. Boschen, Montville NJ (Interested in gesting NYC FM from a location at Jamestown RI, SW Middletown); Al H. Doherty, Scottsdie AZ; Mike Dukin, Ladysmith WI; John Ebellin, Bloomington MN; Bruce Ebeller, Markey Middletown, All H. Doherty, Scottsdie AZ; Mike Dukin, Ladysmith WI; John Ebellin, Bloomington MN; Bruce Ebeller, Markey Middletown, All H. Doherty, Scottsdie AZ; Mike Dukin, Ladysmith WI; John Ebellin, Bloomington MN; Bruce Ebeller, Markey Markey, M

FAD	DT TO AC	BTONE	EO	R NEW TELEVISION STATIONS	1	visi	on 30	In	c.; Wilson Media Ltd. (Joint
					1	requ			
				ATE/CITY/APPLICANT	CA			ch.	67; Focus Broadcasting of the
153	5000	1222	CO	Castle Rock; Castle Rock	"	Mont	erev	Pen	insula (Salinas-Monterey as-
1,			***	Communications Ltd.	1				ur year old application).
				Clermont; South Lake Commun's	MS.	Gree	nvill		ch. 44; Delta Telecasters
				Syracuse; Tureaud Broadcasting	١.٣	(Toi	nt Re	-, '	"+)
62	5000	1140	OK	Oklahoma City; Kilgore Bc'ng.	DD				
				Charleston; GAKO Enterprises	mai	Caro.	TINE;	cn,	. 52; Good TV Broadcasting Co.
51	1000	1635	WA	Bellevue; C.R. Pasquier Asso-	IIN				h. 53; Cleveland Community
i				ciates of Bellevue, Inc.	[Ltd.; Cleveland Television
50	5000	1119	TN	Memphis; Doberman Broadc'ing	۱.,				d Towe & Darrell Silvey.
27	5000	1605	FL	Orlando; Elim Broadcasting Inc	CA				o; ch. 9; Minority Television
				Rock Kill; Beverly Hills Hotel					contest with license renewal
1	-			Corporation		of e	ducat:	iona	elstation KQED, which was
21	2525	779	SD	Rapid City; Community Christ-	1	rene	wed b	y tì	ne FCC.
				ian Television	COL	deablican principal	OT TOM	DIN	RMITS GRANTED BY THE FCC
51	5000	323	A7.	Tolleson; Susan Cordova Kelly					
				Tolleson; Lifestyle Broadc'ng					Cleveland; WFLI, Inc.
151	5000	1722	17	Tolleson; Doylan Forney	45	1350	550	IX	Rosenberg; Pueblo Broadcast-
				Castle Rock; Virginia Kelso			4404		ing Corp. (Review Board Decn)
					38	5000	1121	FL	St. Petersburg; Bay Telev'n.
ددا	5000	IKKK	u	Castle Rock; Nonprofit Tele-					Wilson; Wilson Telecasters
1,,,	5000		777	vision Concepts	34	4182	1035	GA	Athens; Georgia Mountain
		434	LP	Orlando; Emily Laforett	١.				Corp (Review Board decision)
les.	90	341	FL	Clermont; Nonprofit Television	36	5000	970	FL	Cape Coral; Florida Family
[Concepts					Broadcasting Ltd (Review Bd.)
28	5000	550	MS	McComb; Southwest Mississippi	67	2036	2365	CA	Salinas-Monterey; Schuyler-
١.				Television Company.	1				Littlefield Broadcasting Co.
56	1000	326	NΥ	Syracuse; Susank-Panisch	44	2698	794	MS	Greenwille: Chester Smith
56	5000	853	NΥ	Syracuse; Nonprofit Television	22	1275	790	MO	St. Joseph: Public Television
1				Concepts					19, Inc.
36	5000	474	SC	Charleston; Nonprofit Televi-	1.7	7260	1/20	TI.	Chicago; Monroe Communica-
				sion Concepts	77				tions Corporation (Initial
68	5000	1438	TX	Arlington; Charisma Broade'ng					decision, denying license re-
				Hendersonville; Nelson Media					newal of WSNS-TV).
				Rock Hill Moore Broadcasting	66			NC	Forest City; WSQY-TV (rein-
1				Industries	100			140	
					<u> </u>				stated) (See MP granted below)
				SMISSED BY THE FCC	API	LICAT	PIONS	TO	MODIFY CONSTRUCTION PERMITS
TX	Rosen	berg;	; ch	. 45; Texas 45 Broadcasting					Davenport; KLJB
1	Inc.	(Revi	ew	Board decision)					Ogden; KUEC
GA	Athen	ıs; cł	1. 3	34; Sunbelt Television Inc.					Anacortes; KMTB
1	(Revi	ew Bo	ard	l decision)					Natchez; WNTZ
FL				h. 36; Cape Coral Broadcast					Harlingen; KLUJ
I				Management Corporation; Coas-					Madison; WMSN-TV
I				ng Corporation; South Jersey					
1	Radio			3,	40	٠,٠		V.T	Bowling Green; WQQB
FL				g; ch. 38; Home TV, Inc. (Re-	COL	ISTRUC	CTION	PEF	RMIT MODIFICATIONS GRANTED
ΙĪ				ecision)					Alvin; KZEI
AZ.				6; Contemporary Communica-					Shawnee: KCVT
1						?			Syracuse; WKAF (apparently
ł	tions; Grand Canyon Television Company, Inc.; John R. Powley (Joint request, which								already was granted MP to
l									change from ch. 68, which I
I				Communications Company as					have no record of. So I have
FT	St. D	ot or	chue	ining applicant).					no way of knowing if there
1.1	iou P	evers	our 	g; ch. 38; Home TV Inc. (Rev-					were other changes in the MP.
A7	Dha	oard	uec	rision)	28	/920	705	SC	Hardeeville; WTGS
AL.	rnoen	LX; C	:11.	45; American Continental Cor-					Forest City: WSOY_TV

project.

NC Belmont; ch. 46; Agape Communications Inc.

NC Wilson; ch. 30; Elcom, Inc.; Family Tele-

66 1919 1967 NC Forest City; WSQY-TV

36 1222 598 RI Providence; WPBY

6 100 n.c. CA Sacramento: KVIE

APPLICATIONS FOR CHANGES: STATIONS ON THE AIR

39 4592 ? NC Wilmington; WUNH-TV; chg. TL.

55 5000 1690 FL Leesburg; WIYE; change TL.

ELEVISIOI NEWS

poration; Aztec Broadcasting Corporation;

Doylan Forney; Hohokam Communications As-

sociates; LIPT Inc.; Lucia Rodarte Madrid:

Television Ltd.; Sue E. Walters; TV 45 As-

Bernard Clark; Channel 45 Partnership;

Phoenix Television Associates: Phoenix

CA San Francisco; ch. 32; Minority Television

sociates.

CHANGES GRANTED STAT. NS ON THE AIR KY Madisonville; WKM / ch. 35; granted license to cover CP i r changes from 614 kw

cense to cover CP cor changes: ERP from 100 kw to 100 kw tlax.; 1940' AAT/1951' AG & ASL (400' higher ASL; 450' higher AAT, but only because a serage terrain is 50' lower at this new it; I; TL adjacent to Snodgrass Slough, it 2 miles west of Hwy 5, Snodgrass Slough, "t, 2 miles west of Hwy Walnut Grove, or (68 mile south of Twin Cities Road (same sower proposed for KRBK-TV. ch. 31); coord inates 38015'52"/121029' 22" (1.35 miles, & simuth 1560 from previous TL).

FL Miami; WDZL, ch. 2 w; Granted license to cover CP for chang s in ERP from 5000 max/ 1920 hor to 4000 k-h max.

PA Johnstown: WFAT, ca. 19; granted license to cover CP for changes in ERP from 178 kw max/95.6 kw hor to :1661.5 kw max.; 1194' AAT/265' AG/3165' BL (554' higher AAT; 688' higher ASL); L to Pea Vine Hill, 0.35 mile south of Way 30, 6 miles southeast of Ligonier, WA; coordinates 400101 50"/79°09'08" (17.13 miles, azimuth 233°,

from previous TL) -es CALL LETTERS GRANTED: NEW STATIONS CH C.L. STATE/CITY APPLICANT
43 WVCX-TV WI Tomah; or MB-TV
45 KUTP AZ Phoenis, united Television Inc. 30 KAGL CA San Bertardino; Angeles Broadcasting Network (interim) 58 WCVX MA Vineyart, Haven; Cape Video Networka Inc. MS Natchez MSLA Broadcasting Inc. SD Sioux Frals; Family Broadcast'g 48 WNTZ 17 KTTW 14 KHBU-TV TX Houston Educational Television of Housen, Inc. 13 KKTM AZ Flagsta, .: Minority Television of Flagt aff, Inc. 49 WCFN IL Springfi ald; Midwest Television 22 KMPT MO St. Joseph: Public Television 19. Inc ... 50 WJCK NY Waterto) 1: Intercounty Communications Corporation 14 KMCY ND Minot; / DAY Inc. 52 WIVQ MD Cumberligid; WETV

cational Corporation 29 WWKI-TV IN Kokomo: 113.G.S. Broadcasting 34 WZZV MS Magee; lyatt-Clark Broadcasting 26 WNOD NY Jamesto Jamestown TV Assoc. 17 KBMY ND Bismarc); WDAY Inc. CALL LETTER CHANGES: _mATIONS ON THE AIR 47 KYVE WA Yakima; r(YVE-TV 2 KNMZ_TV NM Santa F'A, KSAF_TV

CA Sacramero: Ponce-Nicasio Bc'g

CHANGES IN THE TABLE " CHANNEL ASSIGNMENTS MO Joplin: add *26-; lete *22-KS Fort Scott: add 2011 delete 26-KS Columbus: add *48-1 delete *34+ (The above were pe titioned by Ozark Public Telecommunications owner of KOZK, ch. 21, Springfield, MO, i order to make it feas-ible to construct repeater on channel 26 in Joplin. A ch nel 22 repeater would

'tl

be impossible, since it would be on a channel adjacent to KOZK, and the repeater would be repeating over-the-air signals.) max/513 kw hor to il3 kw max. Should be no OH Hillsboro: add 55+ (site restriction 12.1 change in signal Prength.

CA Sacramento; KCRA-T, ch. 3; granted li- ch. 48, from interference) miles east of Hillsboro to protect WCET-TV.

CONSOLIDATED HEARINGS

CA Paradise; ch. 46; Butte Creek Communications Company: Gomez Broadcasting: Garcia Communications: Venture Technologies.

NM Santa Fe: ch. 19: Susan Harris: Clara Rose Apadoca: Channel 19 Partnership.

MT Helena: ch. 10: John R. Powley: Haynes Communications Company.

VA Ashland; ch. 65; Christian Communications Inc.: John R. Powley.

MI Cadillac; ch. 33; GRK Productions Inc.: · Robin C. Brandt.

AL Mobile: ch. 61: Mobile TV 61 Inc.: South Alabama Telecasters.

TX Brady; ch. 13; John R. Powley; Kimbell Television Company.

NEW TELEVISION STATIONS ON THE AIR

CA Cotati; ch. 22; went on the air sometime in January, 1985, as reported by Randy Miltier; 51.65 kw ERP; 1928' AAT/76' AG/ 2520' ASL; TL Sonoma Mountain Road, 3.1 mile WSW of Glen Ellen, CA. Coordinates 38°20'54"/122°34'37". Educational station: -10 kHz offset.

MI Cadillac; WCMV, ch. 27, seen by Bill Draeb on 9/7/84, as reported in the 2/84 VUD. 274.2 kw Max ERP; 587' AAT/303' AG/2005' ASL; Coordinates 44008'22"/85020'28"; TL 3.3 miles north of Dighton: satellite of WCMU-TV, ch. 14, Mount Pleasant, MI. Educational station, zero offset, but the FCC tends to overlook educational stations that rebroadcast signals received over-theair. Address: Central Michigan University, Mount Pleasant, MI, 48859.

MI Manistee; WCMW, ch. 21, also seen by Bill Draeb on 9/7/84. 224.4 kw max ERP; 340' AAT/298' AG/1018' ASL; coordinates 44003' 57"/86019'58"; TL 3 miles west of Route 31, 12.5 miles south of Manistee, MI. Repeats programming of WCMU-TV in Mt. Pleasant, but picks up over-air signals of WCMV; zero offset, but see note above. Address same

CA Visalia Diocese of Fresno Edu- MI Kalamazoo; WGVK, ch. 52, went on the air 10/1/1984; 44.36 kw max ERP; 414' AAT/299' AG/1279' ASL: coordinates 42018'24"/85039' 26"; TL northwest of the intersection of Drake Road and State Route 43, near Westwood; proposed satellite of WGVC in Grand Rapids, so same goes as for the above two. Assignment is +10 kHz. Address: Grand Valley State Colleges, College Landing, Allendale, MI, 49401.

MT Bozeman; KUSM, ch. 9, went on the air 10/1/1984. 0.305 kw max ERP; 340' AAT/141' AG/5009' ASL; coordinates 45°40'00"/111°03' 10"; TL Hedges Hall, south Michigan State University campus (Wonder if their Grade B contour reaches the north campus!); zero offset: address: Montana State University. Bozeman, MT, 59715.

AZ Tucson; KDTU-TV, ch. 18, went on the air

12/31/1984: 2490 kw max ERP; 1966' AAT/ 130' AG/4489' ASL; coordinates 32014'55"/ 111º06'57"; TL Tucson Mountains; -10 kHz offset: address: Roman Catholic Church, Diocese of Tucson, 1855 North Sixth Avenue, They could also update their data disk. Tueson, AZ, 85705.

TELEVISION NEWS - page 3

AZ Tucson; KPOL, ch. 40, went on the air the next day. 1/1/1985 (or should that be the next year?); 2029' AAT/180' AG/4539' ASL (same tower, but 50' higher than KDTU-TV.) Same coordinates and TL. naturally, 1534 kw max ERP; zero offset; address: J.P. Communications, 2475 North Jack Rabbit Avenue, Tucson, AZ, 85745.

FL Pensacola; WJTV, ch. 44; data listed in 2/85 column: address: Carnex TV Inc., 700 S. Palafox, Pensacola, FL, 32501.

IL Jacksonville; WJPT, ch. 14, went on the ai 8/21/1984. 28.25 kw ERP; 313' AAT/339' AG/ 964' ASL: coordinates 39044'08"/90010'32": TL 2 miles east of Jacksonville; educational station; zero offset; address: West Central Illinois Educational Telecommunications Corporation, Box 6151, Springfield IL, 62703.

MA Marlborough; WVJV-TV, ch. 66, seen testing by Phil Sullivan on 2/11/85, and signed on officially on 2/12, as per Larry Weil, Ben Wilkie, and George Mileon, whose comments on the station appear later in this column. Independent station, offering video music 24 hours, with stereo, and identifies itself as V-66. 3000 kw max ERP/ 1163' AAT/1419' AG/1449' ASL: coordinates 42023'01"/71029'35": TL Parmenter Road, Hudson, MA (See Larry Weil's comments about the TL); address: Channel 66 Associates, 111 Speen Street, Framingham, MA, 01701. Zero offset, channel assigned to Worchester, MA.

PR Fajardo: WPRV-TV. ch. 13. data listed in the 2/85 column; address: WPRV-TV, Call

Box 13 Puerto Real. Fajardo, PR. 00740. IL Macomb; WIUM, ch. 22, went on the air 10/1/1984, as per Jeff Kadet; educational station, satellite of WJPT, mentioned above: 24.16 kw ERP: 519' AAT/520' AG/ 1200' ASL: coordinates 40°25'40"/90°40'58' TL 2 miles SW of Jeff Kadet's house, 2.3 miles SSW of Macomb city hall: +10 kHz offset; same address as for WJPT above.

OH Shaker Heights; WOIO, ch. 19 (Cleveland assignment, zero offset), reported by Bill Draeb on 10/11/1984; 1000 kw max/755 kw hor ERP; 1014' AAT/836' AG/1971' ASL; coordinates 41°20'28"/81°44'24"; TL 9946 Ridge Road, North Royalton; I assume this to be an independent station since it is close to Cleveland, which already has three network affiliates and a UHF indie.

MISC NETWORK NOTE:

KINT-TV, ch. 26 in El Paso, TX, is now SIN.

Many members of the WTFDA are becoming involved with home computers, and some are particularly involved with the COMMODORE-64, or could have access to one. A thought that occurred to me recently was to create a data base of television stations that could be used by the C-64. Those C-64 owners who

have the Commodore MANAGER disk might be interested in that type of record. The MANA-GER would allow users to retrieve data on any station by simply giving the call letters. Another thought would be to create a data program, listing stations and technical information under data statements in the program itself. While this method would have limits in the amount of data that could be included, you wouldn't need the MANAGER disk to use. Both methods could be used to print out a complete station list. I'm not at this time working on either of these ideas, but I'm interested in seeing if there is any response from the club on either of these ideas.

From John Combs, president of the Deranged DX'ers of America, sent an article relating to the proposal to allow educational VHF stations to swap channels with commercial UHF stations for profit. Gateway Communications has been planning to purchase WJKS-TV, channel 17 in Jacksonville. There is now an educational station, WJCT, on channel 7. But now with the possibility of channel swapping the other independent stations in the city. WAWS (ch. 30) and WNFT (ch. 41), could swap with channel 7. If that happens, then WJKS-TV, now an NBC affiliate in a city where there are ABC and CBS affiliates on VHF. could lose its affiliation if another commercial station took over channel 7. Gateway doesn't want to take that chance.

Phil Sullivan was the first to report WVJV, channel 66. On 2/11 all it had were color bars and a 60hz hum, but being 10 miles away from Marlborough, he knew what the station was. He describes the color bars as possibly the high point in their programming.

George Mileon sent a news clipping about the station. It's the area'sfifth independent commercial station, and the first of its kind: 24 hours a day, seven days a week, with live studio VJ's (videojocks) introducing each video song, with local news, lifestyle segments, concert calendars and contests and promotions, just like the format of a typical FM station. (If you had ausio only, you probably wouldn't know the difference.) Even its identification. Although it will still have to identify hourly with call letters, it's using the promotional identification common to AM and FM stations. This time it's "V-66." The station will target the 18-34 age group, but will still have some appeal to the over-34 group. According to George, they have been advertising thay they are on stereo. He says that he needs a good antenna to get it in his area.

Ben Wilkie agrees about the signal: "They tell us that they have the tallest transmitting tower in eastern Massachusetts, however, the signal up here in York, Maine is TERRI-BLE! "

Larry Weil says that the neighbors around the WVJV transmitter tower in Hudson, MA, are trying to get legislation passed to prevent future towers in the area, and hired a lawyer to get the WVJV tower taken down. It's interesting to note the V-66 promo

29 KRBJ

49 KNXT

that the station is using. Several LPTV stations, not being required to identify in the same way as a full service station and having call letters that are more difficult to remember, are also using promotional named to identify their station. Could it be. in this age of deregulation, that the day is coming when formal station identification with call letters will be a thing of the past?

Back to Larry, who is a transmitter engineer at WNEV-TV, channel 7 in Boston. "For about the past year we have been ... running shout 82% licensed power. One fact about which many DX ers are unaware is that stations are allowed by the FCC to run from 80% to 110% of their licensed power. In practice, 22 which had been broadcasting ON-TV, was most stations run from 90% to 100 %, except when VSWR due to antenna icing forces them to use lower power in order to prevent damage to the final tubes."

(I wonder if there are other occasions when a station can reduce power below 80%. Quite often on a good DX night, WWSG, ch. 57 in Philadelphia, seems to come in unusually poor. On a normal night I can get a clear signal, but it is snowy when DX is hot.)

Larry sent in an article from the Cape Cod Oracle about channel 58. Donald Moore. owner of WQRC-FM, also owns LPTV station W58AO in Hyannis, MA. The FCC allows a radio and LPTV station owned by the same person to overlap in their coverage areas, but now a radio station and a full service broadcast station. But in 1982 Katy Industries of Illinois applied to the FCC for vacant channel 58 in Vineyard Haven, MA, which would have knocked W58AO off the air. To protect his station. Moore was forced to file a competing application for channel 58. After buying out Katy Industeies' interest, he was granted a construction permit. But now that he owns what will become a full service station, he has to get rid of his FM station.

Fred McCormack on Minnesota LPTV's: K30AF in Alexandria has a varied program of WCCO-4 news, CNN Neadline News, local news, movies, local high school basketball, Big Ten basketball, North Stars hockey and other miscellaneous. When not carrying these programs they run character generated news from the local newspaper. K34CF (Where's that, Fred?) has dropped SPN andis now carrying ON-TV with scrambled video and audio on a subcarrier. K42A0 in Alexandria was bought by Selective TV, a local translator operator, and is now translating KWCM-TV. ch. 10. as is the K62AU translator in Alexandria, which might be going off soon.

(After looking this over, I think K34CF should be K34AF, the Alexandria LPTV.)

Bill Draeb confirms that WCAE, ch. 50 in St. John, IN, has been off the air for several years. Also, WVCX-TV, ch. 43 in Tomah, WI, were bought by Wisconsin Voice of Christian Youth, owner of WVCY, channel 30 in Milwaukee. When WVCX comes on its programming year paid \$1.7 million to KTEH for the a satellite of WVCY?)

I had also questioned WWQI-TV, channel 25 in LaCrosse, WI. This construction permit

has been floating around for several years. and I recall the application having been around for several years before that. Ronald Purdue answered that WWQI is not yet on the air. He asks if there is any new data on the station. Nope. Just the same old construction permit that was granted three years ago. Ronald also compared some schedules between KTTC, ch. 10 in Rochester, and KXLI. which will have the same programs as its satellite, KXLT in Rochester, KXLT will be dunlicating at least five programs on KTTC, and on KAAL, ch. 6 in Austin, only 35 miles away.

W.R. McIntosh follows up on the continuing story of Oak TV. To start, I made a mistake in last month's column. The Los Angeles ch. KWHY-TV. And a few sentences later where I reported that Oak was going to sell KRCB-TV. I believe that should have been KBSC-TV. KRCB-TV, channel 22 in Cotati, CA, is the PBS station that recently went on the air, as was mentioned by Randy Miltier on the next page. According to the 2/9/85 Los Angeles Times the Securities and Exchange Commission is seeking to remove four senior officials. after having completed a 14 month investigation. Neither the SEC or Oak would say why. Oak is also considering the possibility of bankruptcy if it can't restructure itself to suspend cash interest payments.

Another article from Mc in the 3/2/85 Los Angeles Times involves cable television franchises, a problem in several major cities. The U.S. Circuit Court of Appeals in San Francisco concluded that the City of Los Angeles violated constitutional freedom of speech rights with its auction system that permitted only one cable franchise holder in each area of the city. As long as there are utility poles and other facilities to accomodate more than one cable company in an area. it is unconstitutional under the First Amendment rights to limit access to only one cable company. The suit. by Preferred Communications, which wasn't preferred by the City of Los Angeles for a cable TV operation in south central Los Angeles, challenged the city's right to franchise cable TV systems. The City replied that if there were no franchising. then cable companies could bypass poor neighborhoods. This decision could affect the entire cable industry. The city plans to appeal the decision.

Frank Aden Jr. sent in a clipping about KTRV, ch. 12 in Nampa, ID, which has been for sale. The station, owned by Toledo Blade Co., will be sold to Idaho Independent Television

Randy Miltier sent about five articles and editorials relating to a situation in San Jose that seems to be heavy on the public's mind there. KTEH, channel 54 inSan Jose. runs instructional programming during the day and PBS programming in the evening. The Santa Clara County Board of Education last will probably be religious. (Are they planning classroom programming. KTE received another \$1.2 million from public, corporate, and individual contributions, making a total of \$3 million. But the Board of Education, itself suffering from a \$3.6 million deficit this year, reduced its contribution to KTEH by \$780,000. That's one fourth of KTEH's \$3 million budget. In addition, KTEH, in order to receive a \$340,000 grant from the National Endowment for the Humanities, has to increase its local pledge receipts by \$1 million. And if KTEH is forced to stop its instructional programming, it will then lose\$250,000 worth of free rent and personnel services provided by the county.

The three editorials sent in by Randy are interesting to compare. None of them are critical of the County for cutting the funding. This first article (anonymous) stresses the need of pledges as the station's only hope to stay on the air. "Whether KTEH can survive solely as a PBS affiliate in the shadow of KOED (Channel 9) in San Francisco depends on how much San Jose and Central Coast viewers think local public television is worth. The price tag could run as high as \$1 million." "We think San Jose is big enough. and distinct enough culturally and geographically from San Francisco, to benefit from its own community television station." " ... even KQED's general manager ... concedes that 'San Jose is a pretty big community and ought to have its own' public television station."

The second editorial, by David Rosenthal, is critical of those who don't care. "Now, there are those who contend that it wouldn't be the worst thing in the world if San Jose didn't have a public TV station, that the area is served perfectly well by KQED (Ch.9) and KQEC (Ch. 32) in San Francisco, and KCSM (Ch. 60) in San Mateo.... But there are a good number of people who can't get those stations and if KTEH goes belly up, they will be out of luck- and the signal range of public TV. More importantly, however is the effect of the station on our collective psyche. We all know this is a community that has long labored in the shadow of San Francisco....But it can and should have its own identity. And while a public-television station is hardly the most important factor in establishing that identity, it is a contributing factor, both in the way we see ourselves and the way others see us. " "Another arguement, especially where the expenditure of public money is concerned, is: Why should our tax money go for something we don't want? Who, for example. would want his or her taxes to keep The Duxes of Hazzard' or 'T.J. Hooker' on the air? But, without public money, unfortunately, that's about all that will be on the air. Commercial TV just will not program things that do not have mass appeal. no matter what their merit. Public TV can and does program without being obsessed with ratings, to all of our benefit.

This third editorial appeared in the same newspaper, five days later. It's from H.Bruce Miller, who I suspect wrote in response to Rosenthal's article. I like this guy's style. "Alistair Cooke will choke on the olive in his martini if he ever reads this, but my reaction to the news is: 'So what?' "KTEH's plight has been the subject of much tongue-clucking among the local goat-cheese-

and-Masterpiece-Theater set. The chief clucks seem to be as follows: /Wont it be a shame for a city the size of San Jose to have no public television station of its own when a place like Eureka (or Redding or Huntington Beach or Mule Sweat, Tenn.) has one? /Isn't it a disgrace that government will not support quality television? Let's talk about Cluck No. 1 first. There's no compelling reason. aside from municipal pride, why San Jose should have a public TV station of its own. The place (and a place is what it is, not a city) has no distinct identity or personality. It's a shapeless, characterless suburban blob set apart from its neighboring blobs only by invisible and arbitrary boundary lines. As far as I can see, it has no unique programming needs that can't be-and aren't being-met by KOED and KOEC in San Francisco and KCSM in San Mateo. " "And now for cluck No. 2- quality television. " "... I am bloody well outraged by the proposition that my fellow taxpayers should be made to underwrite my-or anybody'sentertainment. If Congress started taxing the goat-cheese eaters to support telecasts of 'Monday Night Football' and 'The A-Team.' Palo Alto would declare secession within 24 hours. But somehow, it's considered perfectly OK to tax Joe Sixpack so that Jonathan and Jennifer Chardonnay can enjoy 'Brideshead Revisited and 'La Boheme.'" "I'd like to see KTFH survive....But I don't want to see KTEH survive as a fiscal basket case kept alive only by massive intravenous feedings of public dollars." "I'm looking forward to seeing the county take away the remaining \$250,000 - and someday, to seeing the federal government stop paying its 15 percent share of the station's operating budget. Then we'll find out whether San Jose really needs - or deserves - its own public television station. If the people who watch KTEH think it's worth keeping, they'll pay to keep it. If they don't, it will go down the tubes.

Yes. Randy did send an article on another subject. KSTS, ch. 48 in San Jose, takes a different look at how to make profits. In addition to the Financial News Network program during the day, its primt time is filled with live, locally produced programs on investments, business, how to make money, shelter it, and enjoy it. It's audience is small. but its overhead is very low, programs are cheap to make, and what few viewers it has are wealthy. 35% of its viewers earn more than \$50,000 annually. While other stations are airing costly programs in their efforts to become number one, KSTS is making the profits.

Ed Frye corrects the 2/85 column. UHF channel 45 in Schenectady NY is WUSV, not WUTV. I had questions about the correct city of license of the station, but most of the references connect it with Schenectady instead of Albany. He sent some listings of the station from a local newspaper insert. (By the way, I often stress this as a good way to find out about the station, since I gave up trying to get responses from the stations themselves. So if a new station comes on in your area, send me some listings.

Unfortunately, the Wendy's hamburger coupons on the other side were no good in New Jersey. The program schedule didn't seem that impressive. As an independent station, it depends heavily on syndicated programs, and not as much on movies as most of the more successful independent stations have. And having seen numerous ads for successful syndicated programs in Broadcsting magazine, I can't say that any of the programs listed in WUSV's schedule have been promoted as successful (Voyagers, Eischied, Switch, Courtship of Eddie's Father, My Favorite Martian, etc.). There is no news programming locally or network (CNN, INN, etc.). Nor is there any alternative programming: WUSV runs loads of cartoons in the late afternoon just like some of the other indies in the area. Many independent stations go heavy on some of the current wave of satellite-relayed syndicated programs, but none of them appear in WUSV's schedule. I will grant that, what few movies I saw listed, were good quality films.

Tim McVey mentions that W38AD in Jackson. TN. is on the air. None of the papers in the area mention the call letters, and even the TV listings refers to it as TV-38. He watched the station for three hours straight and never saw an identification. (Another example of stations downplaying call letters in favor of a promotional ID) He sent two articles from the Jackson Sun. both written by Cheryl Levenbrown. I don't know how she got away with it, but they are both the same article, only reworded and republished. Maybe she should get a Pulitzer Prize for pulling one over on the Jackson Sun. The station has a 32 mile radius coverage area. covering Madison, Carroll, Chester, Crockett, Gibson, Hardeman, Haywood and Henderson Counties. The station broadcasts from 7 a.m. to 11:30 p.m. with "something for everyone." That includes movie classics, phone-in programs, '60s serials, movie classics, local and college sports, Paul Harvey news, INN, country music videos, public affairs, aerobics, gospel shows, outdoor programs, and business news. The broadcast antenna is on the WKIR-FM tower. The TV listings sent in by Tim also included a program about computers. (Must be a computer program!)

Tim says that WFYZ, ch. 39 in Murfreesboro, TN, gave up competing with WCAY, ch. 30, and is now Christian oriented broadcasting as of January.

According to the Huntsville Times, sent in by Tim. Channel 54 was scheduled to be on the air "sometime next fall." The article is dated 2/3/1983. Another article dated 7/5/1984 says that the station should be on the air by the end of 1984 or early 1985. Another article dated 1/24/1985 says, "Huntsville's soon-to-come independent television station has a general manager, and the owners now expect it to be operating in early April." I wonder what the April article is going to say. WZDX, whenever it does come on, will be the city's first independent station. But in an area where the three

network stations are also UHF, WZDX won't be at such a disadvantage. The 1/24/85 article mentions that the station will be heavy on movies, and so far only one syndicated program has been mentioned: Dallas. One of the reasons for the delays was finding a new tower site after the original proposal became unavailable. The new site is on Green Mountain, about 4 miles south of the other stations' towers. The station is supposed to operate with as much as, or more power than the other commercial stations.

Rod O'Connor mentioned two LPTV stations in Anchorage which are also going to promotional names. The video music station is "CATCH-22", and the religious station is "ACTS-20."

An article from the Air Alaska News for February, 1985, talks about a proposed antenna farm west of Anchorage. The tower is 2.5 miles northwest of Goose Bay, and is 1000' above sea level. It is being built by KAKM, the educational station on ch. 7. The other VHF broadcasting stations are also proposing to build transmitters in the same area in order to reduce the clutter and hazard of air navigation in the Anchorage area. Instead of having tall towers located everywhere, there will be only one area for aircraft to avoid.

An article from the Alaska Daily News for 2/6/1985, sent in by Rod, mentions a new commercial television station on the Kenai peninsula. The station signed on 2/4/85. No call letters or power are mentioned in the article. It's on channel 17. and operates 24 hours.

Ron Greening is certain that Bill Draeb's unidentified channel 8 is WOSBW in Shebovgan. WI. It is owned by Lakeshore Technical Institute. which bought it from WBAY-TV. It is a ten watt translator, transmitting from south of Sheboygan.

Robert Grant gives some insight on CBET, ch. 9 in Windson, Ontario. Because it has such good coverage over the Michigan side of the Great Lakes, it couldn't broadcast American programs currently aired on the American networks when the other CBC stations were, so it broadcast STV programs, movies, or variety programs instead. But because of budget cuts the CBET studios will close down and CBETwill become a repeater of CBLT in Toronto. So this summer when CBC is airing current American network programs, what will CBET be broad casting? 3/4 CBTP!

Robert asks when ch. 38 in Mt. Clemens. MI. will go on the air. They were granted a construction permit early in 1984, but the other applicants for the channel didn't give up, so the issue went to the FCC Review Board, which upheld the initial decision a few months ago. The station has yet to get call letters. which is a possible indication that the construction permit grant might still be contested.

What will happen to K66BV, Detroit'sSIN translator, when ch. 66 in Flint cones on? I have no idea at this point if they are looking for another channel or not.

Ron concludes, "I agree with you that PBS stations are fronts for covert CIA operations. FL Destin: add 64+ WTVS (56) for example sends a secret spreadspectrum signal. It appears as a mess of ghosty, fadey snow no matter how big a UHF antenna you use!"

Yes, it's about time the public was made sware of the real reason why educational stations are seldom mentioned in newspapers or television listings, the real reason why their very existence is kept secret from the general public. All these years that Sesame Street was NY Batavia: add 51- (site restriction 8.2 being watched by your children, you never realized that those numbers and letters were really cryptic messages.

Several months ago a group of Nicaraguan rebels kidnapped a Sandinistan official and held him for \$50,000 ransom. When the government failed to come up with the ransom, the rebels began asking the Sandinistas for pledges and offered them Doctor Who souveniers. Now tell me, where did they learn that?

Robert Hempel sent a clipping from the 2/16 Des Moines Register about KCBR, ch. 17 in Des Moines. Iowa. The station is being sold by Independence Broadcasting Corp. to Duchossis Communications Company. The company plans no changes in call letters or the station's management, but plans to strengthen its program schedule and engage in more promotional activity.

An article from Larry Fuss, printed in the 2/24 Atlanta Journal/Constitution describes the growth of the Atlanta market area. WANX was sold by Continental Broadcasting Inc. to Tribune Broadcasting Company, which changed its call letters to WGNX. Outlet Communications bought WATL, channel 36. Both Tribune and Outlet are big companies that own several television stations, a sign of growing interest in the Atlanta market. The city's three network affiliates dominate the market, with a total of 74% of television viewers watching them. WTBS, channel 17, is more concerned with NM Roswell; ch. 21; Susan Harris; Roswell national advertising than local advertising. WVEU, channel 69, is described as "not...a factor in the ratings." That leaves WGNX and WATL to contend for a large portion of the remaining television audience.

From John Ebeling, an article from the Radio Craft magazine. The FCC decided to delete channel 1 from the television band, but at the same time ruled that other radio services can no longer use the other twelve television channels. The magazine was dated July, 1948.

It's been quite a while since I last did the south. Receiving dish antennas have to be RETROSPECT features on this column. But even without it, the column has been unusually long satellites. The Russian television systems because of the large amount of input from the club membership. When I first started this column, there were about two or three letters of the TV picture. a month. This month there were about thirty letters, with some members sending two or three letters.

I had already gathered a large amount of magazine articles, much like the ones sent to me by John and a few others. Maybe someday I'll get a chance to give some more insights into the origins and early history of television. It's all very interesting.

MORE CHANGES IN THE TABLE OF ASSIGNMENTS

GA Perry: add 58+

MT Miles City: delete *6z: change 10z to *10z MT Billings: add 6z

FL Inverness: add 6/z

FL Live Oak: add 57-

CA Porterville: add 61z

KS Liberal: add 5+ (site restriction 7.8 miles southwest to avoid short spacing to KTVC. ch. 6 in Ensign, KS)

miles south to avoid short spacing to ch. 51 in Midland, ONT and ch. 66 in Cobourg. ONT)

ONSOLIDATED HEARINGS AGAIN

X Conroe; ch.49; Jack Clarke III: Conroe Communications Company; Luis Y Nelida Castaneda; Brokinrod Broadcasting Company Inc.; San Jacinto Television Corporation.

A Fredericksburg; ch. 69; Fredericksburg Broadcasting Group; Rappahannock Cablecast Company. Inc.

X Lubbock; ch. 16; Lubbock TV 16 Broadcasting: Robert Quentin Martin & Cesar Amador. a partnership: TRG Broadcasting Systems.

L Miami; ch. 35; Kilgore Broadcasting; Explorado de Miami Inc.; Julio & Silvia Fernandez: Harmony Broadcasting Corporation: Cuban-American Limited; Miami 35 Corporation: A and I Television Ltd.: Telecentro Inc.: Spanish Broadcasting Corporation: Comi-Centre Broadcasting Inc.: Minority Broadcasting Corporation Inc.; Miami Broadcasting Inc.: Miami Latino Broadcasting Corporation: Lamar Communications Inc.: Hernandez. Costa & Associates: Adib Eden Sr.; Coral Way Broadcasting Ltd.; Canal 35 Ltd.: Range Communications Limited Partnership; Grace Broadcasting Network Inc.; First Latin Women Broadcasting Inc. Broadcasting.

ORE FORUM

I'm really organized today. The above was from the latest Federal Registers, the following simply was overlooked.

Morrie Goldman sent in two newspaper clipoings. One is about Columbia University in New Yor, which is monitoring Soviet broadcast satellites. Because much of Russia is so far north, the conventional stationary orbit satellites are too far south, so they have a series of satellites that orbit northmounted on motorized axes to track the moving use a modified version of SECAM, with 625 lines per frame. Sound is transmitted as part

The second article describes some of the changes in the People's Republic of Chine. Along with the social and economic changes. more people are buying television sets, and UHF antennas are springing up everywhere. The Communist Party recognizes that radio and television are effective tools for keeping in touch with the public.



FM's QSL



THOMAS J. YINGLING, JR. 221 PINEWOOD ROAD BALTIMORE, MD 21222-2345

NY	WLIR	92.7	Hempstead, 175 Fulton Ave., zip 11550. Letter from Mike Guidotti, CE. also send coverage-map Cooper
NF.	CEGB	89.5	Goose Bay, Labrador: % Box 12010, Postal Station "A",
M	C, O.		Kemont Road, St. John's, NFLD. A18 378. Letter from
			D. Uttaro, Manager of Regional Engineering. Cooper
MA	MING	98.3	Winchendon, 3 Central St. zip 01475. Letter, coverage-
l in	441.40		map & data sheet from Walter Buckingham, Operations
			Manager, Cooper
NY	MRFM	105.1	New York, 485 Madison Ave. zip 10022. Letter from
(4)	*****		Joseph P. Losgar, VP of Eng. Cooper
VA	MKRE	105.5	Exmore, P. O. Box 220 zip 23350. Form letter from Phil
***	*****		Badger in 4 months. Holbrook
PA	WJTL	90.3	Lancaster, 780 Eden Road zip 17560. Letter from Paul K.
			Logsdon, Operations Mgr. in 10 days. Holbrook
	WRGN	88.1	Hunlock Creek, Rd 3 zip 18621. Letter from Burl F.
			Updyke, Gen. Mgr./CE in 20 days. 500 watts Holbrook
	WCCK	103.7	Erie, Box 1184 zip 16512. Send back my prepared card,
			but no way can make out the signature!! Got reply
			after 3 follow-ups! Holbrook
LA	KMBQ	93.7	Shreveport, Box 20007,zip 71120. Gor back my card signed
			by R. C. Johnson, CE in about 10 months. Holbrook
WV	WEMM	107.9	Huntington, 1307-16th St.,zip 25701. Send back my card
			signed by Roger Manning, Gen. Mgr. after 2nd follow-
			up report. reply in about 7 months Holbrook
MD	WTKS	102.3	Bethesda, 4853 Cordell Ave.,zip 20014. Senb back my card
			signed by Granville Klink, Jr. Eng. Consultant Holbrook
MA	WRBB	104.9	Boston, North-Eastern University, zip 02115. Letter from
			Chuck Tarver, Advisor. They run 18.5 watts NSP! Cooper
CT	WDJF	107.9	Westport, 163 Main St.,zip 06880. Now WEBE, but got
			letter on WDJF stationery. Signer is Gary E. Zenobia,
			VP of station operations. Also send bumber-sticker,
			a report also send to WEBE but not answered yet. Cooper
NY	WSKG	89.3	Binghampton, Box 3,000, zip 13902. studios at 1168 Conklin
			Road. Letter from James J. Boutin, Dir. of Eng. Cooper

Lawrence H. Sharman, Owner & Manager

93.3 Conway, East Main Street, zip 03818. Letter from

WDST 100.3 Woodstock, 118 Tinker St., zip 12498. Letter from

WPNH 100.1 Plymouth, 2 High St., zip 03264. Letter from Robert F. Gannett. Operations Manager. WJLK 94.3 Asbury Park, Press Plaza, zip 07712. Letter from Al

a while back in my letter!

T-shirt!

Reporters this time are Hank Holbrook & Ernest R. Cooper. This month column header was done by The Print Shop program. I still have to get an word processor program that will type out the legal length needed for the column. But then again since I'm low again on items to type, the Magic Desk-1 will have to do. In case you may have wonder why I no longer put the QSL's in state order is so I will not miss an item from reporter as I have done before. This was not done on prapose, but a problem in trying put together items from reporters. 73's



Also I would like to say that I am still experimenting with the computer to do my column. I hope to have it pat soon. There is a cheaper way to get instant hard copy from TV, VCR or CRT is a program called Computer-Eyes, which works on your computer. More later on 73's Ton

Jerome Gilman, Pres. & GM who send a beautiful T-Shirt. I had mentioned having seen one here in Provincetown

Bonner, CE who also enclosed a bumber-sticker & a

Cooper

Cooper

Cooper

Danny Buntin 1312 N. Skyline Stillwater, OK 74075

DEADLINE: 10th Report your FM DX to this column if you're from: AL, AR, AZ, CA, CO, DC, DE, FL, GA, KS, KY, LA, MD, NC, NM, NV, OK, SC, TN, TX, UT, VA & WV. Happy Dxing:

1038 tune in to 1041, probably missed most of it! 12/18 Es 1010 traff 90.9 GA Toccoa Falls, U nx, MDZK 99.3 SC Chester, K-99, r 12/4 1106 WSDI 105.5 SC Laurens, calls 1170 1106 WSDI 105.5 SC Laurens, calls 1129 1170 1106 WSDI 105.5 SC Laurens, calls 1129 1170 1170 1170 1106 WSDI 105.5 SC Laurens, calls 1129 1170 11	KY, LA, MD, NC, NM, NV, OK, SC, TN, TX, UT,	VA & WV. Happy Dxing:
1/10 NS 1/10 NS 90:0 1/10 NS 90:0 1/10 NS	Tim Pizzi, P. O. Box 1228, Lovington, NM 88	260 (505)396-3251
1079 KLZR 105.9 KS Lawrence, promo, calls 600 1110 WAFF 98.5 IL Paris,"WACF, all" 1110 WAFF 98.5 time in to 1041, probably missed most of it!) 12/18 88 101 WAFF 99.3 CC Chester, K-99, r 1274 1106 WBMM 98.1 SC Seneca, calls 1179 1108 WSSL 10.5 SC Learnen, calls 1129 1109 WPDZ 103.1 SC Cheraw ads, z-103 1350 1101 wnll 89.3 GA-SC7, r 1274 1101 wnll 89.3 GA-SC7, r 1274 1101 wnll 89.3 GA-SC7, r 1275 1101 wnll 89.3 GA-SC7, r 1275 1101 wnll 89.3 GA-SC7, r 1275 12		1/16 MS 968
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1824 XELA 98.5 DF, c 1/9 Es 1811 XHM 88.5 DF, R. Metropoli 960 1812 XELA 98.5 DF, tent 1812 XELA 98.5 DF, tent 1818 XHSON 100.9 DF, r 1812 XHKW 91.5 MICH Morelia, tent. r 1822 XHKW 91.5 MICH Morelia, tent. r 1825 XHKM? 91.1 GTO Guanajuato, \$,L, "voice of Guanajuato" 1833 XHRJ 92.5 MEX Toluca, tent. r 1901 XHBIO 92.3 JAL Guadalajara, ID 840 (Deleting 12-12-84 logging of X??? 88.5 (En caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1803 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1112 1600 WNEZ 99.3 SC Aiken, ID 124.7 IN Indianapolis, tent. r 1604 KCLU 94.3 MO Rolla, nx or billboard 1615 WJNZ 94.3 IN Greencastle, calls 1193 1625 WFGE 94.3 OH Chillicothe, calls 1193 1626 WFEQ 94.3 OH Chillicothe, calls 1193 1628 WFGE 94.3 OH Chillicothe, calls 1193 1629 WFEQ 94.3 OH Chillicothe, calls 1193 1620 WFEQ 94.3 IN Birmingham, ads, I-95 959 1622 WKIS 96.1 GA Atlanta, tent. 9 6 rock 1624 WGLK 96.1 IN Richmond ads, r, "K96 FM 1626 WFEQ 94.3 OH Chillicothe, calls 1193 1629 WFGE 94.3 OH Chillicothe, calls 1193 1620 WFGE 94.3 OH Chillicothe, calls 1193 1620 WFGE 94.3 OH Chillicothe, calls 1193 1620 WFGE 94.3 OH Chillicothe, calls 1193 1622 WKIS 96.1 GA Atlanta, tent. 9 6 rock 1624 WGLK 96.1 IN Richmond ads, r, "K96 FM 1626 WFEQ 94.3 OH Chillicothe, calls 1193 1629 WFGE 94.3 OH Chillicothe, calls 1193 1620 WFGE 94.3 OH Chillicothe, calls 1193 1624 WFGE 94.3 OH Chillicothe, calls 1193 1625 WFGE 94.3 OH Chillicothe, calls 1193 1626 WFGE 94.3 OH Chillicothe, calls 1193 1627 WFGE 94.3 OH Chillicothe, calls 1193 1628 WFGE 94.3 OH Chillicothe, calls 1193 1629 WFGE 94.3 OH Chillicothe, calls 1193 1620 WFGE 94.3 OH Chillicothe, calls 1193 1624 WFGE 94.3 OH Chillicothe, calls 1193 1625 WFGE 94.3 OH Chillicothe, calls 1193 1626 WFGE 94.3 OH Chillicothe, calls 1193 1626 WFGE 94.3 OH Chillicothe, calls 1193 1627 WFGE 94.3 OH Chillicothe, calls 1193 1628 WFGE 94.3 OH Chillicothe, calls 1193 1629 WFGE 94.3 OH Chillicothe, call	1019 ARRJ 92.5, MEA TOTUCA 900	
1/9 Es 1/2 Es		
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1812 XELA 98.5 DF, tent 1818 XHSON 100.9 DF, r 1818 ZHKW 91.5 MICH Morelia, tent. r 1822 XHKW 91.5 MICH Morelia, tent. r 1825 XHAM? 91.1 GTO Guanajuato, \$,L, "Voice of Guanajuato" 1853 XHRJ 92.5 MEX Toluca, tent. r 1901 XHBIO 92.3 JAL Guadalajara, ID 840 (Deleting 12-12-84 logging of X??? 88.5 (En caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1803 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1604 KCLU 94.3 MO Rolla, nx or billboard 1615 MJNZ 94.3 IN Greencastle, calls 1193 1625 WFEQ 94.3 OH Chillicothe, calls 1193 1624 WFEQ 94.7 IN Indianapolis, r, Q-95 1624 WQLK 96.1 GA Atlanta, tent. 96 rock 1624 WQLK 96.1 IN Richmond ads, r, "K96 FM' 1626 WFEQ 94.5 AL Birmingham, ads, I-95 959 96.5 IL Paris, ID 968 1632 WDWS 97.5 IL Champaign, nx, wx 959 1638 WGBW 104.9 IL Columbia, calls 825 1644 WTIC 104.7 IN Indianapolis, "TIC" 1059 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1645 KKRD 107.3 KS Wichita, calls 461 1/15 Es 1646 WTIX 92.3 IN Bloomington, WFCS-50 ad 1650 KYKY 98.1 MO St. Louis, KY-98 824	1811 XHM 88.5 DF. R. Metropoli 960	
1818 XHSON 100.9 DF, r 1825 XHKW 91.5 MICH Morelia, tent. r 1825 XHAM? 91.1 GTO Guanajuato, \$,L, "voice of Guanajuato" 1835 XHRJ 92.5 MEX Toluca, tent. r 1901 XHBIO 92.3 JAL Guadalajara, ID 840 (Deleting 12-12-84 logging of X??? 88.5 (En caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1648 WTS 92.3 IN Greencastle, calls 1193 1650 WFEQ 94.3 IN Greencastle, calls 1193 1650 WFEQ 94.3 IN Greencastle, calls 1193 1650 WFEQ 94.3 IN Indianapolis, r, Q-95 1652 WKIS 96.1 GA Atlanta,tent. 96 rock 1624 WQLK 96.1 IN Richmond ads, r, "K96 FM 1626 WAFF 94.5 AL Birmingham, ads, I-95 959 1638 WGEW 97.5 IL Champaign, nx, wx 959 1638 WGEW 104.9 IL Columbia, calls 825 1644 WTIC 104.7 IN Indianapolis, "TIC" 1059 1/15 Es 1645 KKRD 107.3 KS Wichita, calls 461 1/15 Es 1648 WTTS 92.3 IN Bloomington, WFGS-50 ad 1650 KYKY 98.1 MO St. Louis, KY-98 824		
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1853 XHRJ 92.5 MEX Toluca, tent. r 1901 XHBIO 92.3 JAL Guadalajara, ID 840 (Deleting 12-12-84 logging of X??? 88.5 (En caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1603 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1624 WQLK 96.1 IN Richmond ads, r, "K96 FM" 1626 WAFF 94.5 AL Birmingham, ads, I-95 959 1628 WAFF 94.5 AL Birmingham, ads, I-95 959 1629 WAFF 97.5 IL Champaign, nx, wx 959 1638 WCBW 104.9 IL Columbia, calls 825 1644 WTLC 104.7 IN Indianapolis, "TLC" 1059 1645 KKRD 107.3 KS Wichita, calls 461 1850 XHNA 101.2 CAMP Campeche, R, r, off 1650 KYKY 98.1 MO St. Louis, KY-98 824		
1901 XHBIO 92.3 JAL Guadalajara, ID 840 cleeks acha beech(XHBIO 96.6 IL Parts, ID 96.6 IL Parts, ID 96.6 IL Champaign, nx, wx 95.9 caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1638 WCBW 104.9 IL Columbia, calls 82.5 in 1639 WAXI 104.9 IN Rockville, calls, "Waxy" 1644 WTLC 104.7 IN Indianapolis, "TLC" 1059 tr 1645 KKRD 107.3 KS Wichita, calls 1650 KKRD 107.3 KS Wichita, calls 1650 KYKY 98.1 MO St. Louis, KY-98 824		
1630 WACF 98.5 IL Paris, ID 968	1853 XHRJ 92.5 MEX Toluca, tent. r	
(Deleting 12-12-84 logging of X??? 88.5 (En caverna), probably XHCM 88.5 Cuernavaca, mor, although it was mono & L, XHCM is \$,m) 1638 WCBW 104.9 IL Columbia, calls 825 1639 WAXI 104.9 IN Rockville, calls, "Waxy" 1644 WTTC 104.7 IN Indianapolis, "TLC" 1059 tr 1645 KKRD 107.3 KS Wichita, calls 461 1/15 Es 1603 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1650 KYKY 98.1 MO St. Louis, KY-98 824		
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mor, although it was mono & L, XHCM is \$,m) 1/14 MS 1052 KRIC 100.5 ID Rexburg, c,tent. 1/15 Es 1803 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1639 WAXI 104.9 IN Rockville, calls, "Waxy" 1644 WTIC 104.7 IN Indianapolis, "TIC" 1059 tr 1645 KKRD 107.3 KS Wichita, calls 461 Es 1648 WTIS 92.3 IN Bloomington, WPCS-50 ad 1650 KYKY 98.1 MO St. Louis, KY-98 824		
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1/14 MS tr 1052 KRIC 100.5 ID Rexburg, c,tent. 1645 KKRD 107.3 KS Wichita, calls 461	, outcomple to man month to the virther to \$1 m/	1644 WTLC 104.7 IN Indianapolis."TLC" 1059
1052 KRIC 100.5 ID Rexburg, c,tent. 1645 KKRD 107.3 KS Wichita, calls 161 Es 1633 KHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1650 KYKY 98.1 MO St. Louis, KY-98 824	1/14 MS	·
1/15 Es 1803 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation Es 1648 WTTS 92.3 IN Bloomington, WPCS-50 ad 1650 KYKY 98.1 MO St. Louis, KY-98 824	1052 KRIC 100.5 ID Rexburg, c, tent.	1 ===
1803 XHNA 101.2 CAMP Campeche, R, r, off freq 101.1 terrible over modulation 1650 KYKY 98.1 MO St. Louis, KY-98 824	1/15 Es	
freq 101.1 terrible over modulation 1650 KYKY 98.1 MO St. Louis, KY-98 824		1648 WTTS 92.3 IN Bloomington, WPCS-50 ad
1832 XHMT 98.5 YUC Merida, Esterio Hoya" 1651 WTHI 99.9 IN Terre Haute 981	freq 101.1 terrible over modulation	
	1832 XHMT 98.5 YUC Merida, Esterio Hoya"	1 1651 WTHI 99.9 IN Terre Haute 981

cont.

SOUTHERN FM DX

SOUTHERN FM DX	Pizzi, cont.	APRIL 1985		
2/5 Es 1659 WVFJ 93.3 GA Manchester, calls 1659 WNIN 88.3 IN Evansville, ID 1700 KUMR 88.5 MO Rolla, wx 1700 WVUB 91.1 IN Vincennes, ID 1705 WPAP 92.5 FL Panama City, calls 1710 WQKK 92.7 AL Eufaula, ads, K-93	950 1715 WKTZ 96.1 F 734 1717 WMTM 93.9 G 959 1728 WDDQ 92.1 G 1071 1729 WJCT 89.9 F			

A very productive report period this time around with 8 days of Es and some MS IDs 1-8 & 9 Mexican openings welcome as I am trying to complete my info on formats, slogans, stereo. etc. 2-5 Es was summer-like and 3 hours long. I've been concentrating on 98.5, 98.7 & 98.9 for MS & Es because local KMTH 98.7 is due on any time now and I'll lose 3 clear freqs. I've been using the Motorola R-220/URR military rcvr.(U.S. Army tube) because it's adjacent channel performance is far superior to my other rovrs., and sensitivity is equal to them. I can hear 93.9 in San Angelo perfectly while on VO4 & JVC's its non-existant because of slop-over from 100 kw KXOR 94.1.15 mi. (My Pioneer is capable of similiar performance, though not quite perfect, DB.) I'm very happy with all this off-season Es, hope it maintains.

Pat Dyer, 5315 Silvertip Dr., San Antonio 78228 - Jan 1 to Mar 3 CST							
Equipt: Realistic TM-1001 tuner into All	1ed	ed 426, 6-el. Archer ant. at 20' with rotor.	_				
t-tentative, new underlined, new model/3 MS	de	• ,					
(Quadrantid peak more like 1230-1430 than	1	1/20 Es					
	۱ ا	1919 KSSD 92.5 NV Cedar City, ad 1005	5				
0700, unfortunately no IDs.)		1944 KJYKt 94.9 AZ Tucson, EL 750)				
Es .		1950 f/outs (1920-1944, lull					
	735						
<u>1/8</u> Es		1843 YSRt 89.0 ElS San Salvador 1200)				
	200	00 1849 TGRT 88.8 Gu Guatemala City, 1120)				
1704 TG 88.1 Gu Guatemala City,	ı	and 3 others from G. C.					
"Fabuesterio"	120						
TGRT 88.8 Gu Guatemala City,	- I	1/24 Es					
country ID	- 1	2135 KSDSt 88.3 CA San Diego, j 1120	,				
1705 TGt 94.9 GU Guatemala City, SS	- 1	2137 XHRMt 92.5 BCN Tijuana, r 1100					
1719 f/outs		1/30 tr	,				
1904 TGRT 88.9							
	590	0219 XHRK 95.7 NL Monterrey, "\$ r" 275	,				
1914 f/outs	امدد						
1/9 Es	ı	0232 XHQI 102.1 NL Monterrey, ID					
	ا ۵۰	0302 XHSRO 92.5 NL Monterrey, "\$ Rey'					
*** * *** *** * * * * * * * * * * * *	590	- 1 - 5 - c - c - c - c - c - c - c - c - c					
	590						
1913 XHCMt 88.5 Mor Cuervnvaca, SS 73	35	1457 KBMI 97.7 TX Roma, ID 210					
XHRFt 88.1 DF Mexico City, Eng. nx	- 1	1/31 Es					
	690 l	0 1859 WERN 88.7 WI Madison, WI nx 1065					
1923 XHME 89.5 Jal Puerto Vallarta, 76	50 I	1900 WPNE 89.3 WI Green Bay, ID 1190	į				
town ID	- 1	1913 WHHI 91.3 WI Highland, //88.7, 89.3					
1924 XHDK 94.7 Jal Guadalajara, slogan ID	- 1	1914 WNLT 94.9 WI Baraboo, EL. 1085					
	330						
2107 f/outs	77	1945 f/outs (spotty after 1927)					
(after about 1930 this was a very spotty		In Be summers. Fob Be summers.					
with signals in for less than 5 min. and	- 1	Jan. Es summary: Feb. Es summary:					
out for 20. Not much even on TV when 96.	, [$\frac{\text{day}}{3} = \frac{\#}{1} = \frac{\text{min.}}{5} = \frac{\text{day}}{3} = \frac{\#}{1} = \frac{\text{min.}}{50}$					
from La Paz in all by itself.)	'						
rom baraz in all by itself.	- 1	8 2 35 5 1 210					
1/10 Es	- 1	9 1 60 2 2 260					
		10 1 15					
	20	1 = 2					
"R. Fabulosa" ID	ŀ	18 1 80 (two events in Feb.					
1810 YSR-t89.0 ElS San Salvador, SS 12	200	0 20 1 10 equalling all of					
1827 TG 88.1 Gu Guatemala City 11	.20	0 23 1 5 Jan's!)					
<u>1/13</u> Es	- 1	24 1 5					
1914 WRMBt 89.3 FL Boynton Beach, g 11	.50 l						
1916 WMCU 89.7 PT. Miami & TD 11	50						
1/18 Es	-	2/3 Es					
1733 TGRT 88.8 GU Guatemala City, ny 11	20						
1/30 t 88.9 Bez Belize City r 10	80	1970					
	20						
	00						
	20						
1850 spotty to 1916 f/outs	~"	1 400, 1220 000, 01 11010, 0, 10					
1/20 ES		1900 KCIRt 90.7 ID Twin Falls 1265					
1004	ایی	1903 KPKY 94.9 ID Pocatello, ad, j 1195					
10 tegas, r	וייכי	1945 f/outs (spotty since 1930) cont					

2/5 1	£s					<u>2/5</u> 185
1508	WCVT	89.7	MD	Towson, ID	1410	185
1551	WPFWt	89.3	DC	Washington, j	1410 1385	191
	WVPE	88.1	IN	Elkhart, j, ID	1095	
1550	UMAW			Washington, k, ID	1385	192
1604	WBNI	89.1	IN	Fort Wayne, nx	1095	193
	KTJJ			Farmington, k, ID	735	Ar
	WIBM	04.1	MT	Jackson, ad	1180	100
				Elkhart, ID, ads	1095	
1021	WOLD	104.7	MT	Kalamazoo, EL	1140	thi
1022	MATTER	100.5	MI.	Natamazou, EL		(1.
1623	MIU	109.4	-11	Mattoon VOR, vx, code		to
	WAZY	96.5	IN	Lafayette, Z-96	945	min
1628	MTRH	90.9	ш	mattoon, in	900	mul
1629	WLRW	94.5	\mathbf{IL}	Champaign, ID	935	
1630	WRXX	95.3	\mathbf{IL}	Centralia, ad	830	2/1
1632	WDWS	97•5	\mathbf{IL}	Champaign, wx, ID Danville, IL nx	935	073
1633	WIAI	99.1	ΙL	Danville, IL nx	960	075
1634	WSHW	99.7	IN	Frankfort, ad Terre Haute, wx, ID	1010	081
_	WTHI	99.9	IN	Terre Haute, wx. ID	935	081
1636	W.TBM	104.1	IL	Jerseyville, psa	815	
1638	WTPT	107.9	TN	Indianapolis, TV promo		2/2
	WASK	105 3	TN	Lafayette, ad, k	945	020
	UDGU	102 3	TN	Warsaw, ad	1080	al
					1105	11
	WBCY	107.9	NO	Charlotte, ID		
	KSGFI	105.7	MO	St. Genevieve, ID, ad		Da
	WMRI	106.9	IN	Marion, ad	1050	Wi
1648	WMHE	92.5	OH	Toledo, nx	1190	
1649	WBTU	93.3	IN	Kendallville, ID Indianapolis, TV promo	1120	3/1 140
1653	WFBQ	94.7	IN	Indianapolis, TV promo	•	140
1658	WCSM	96.7	OH	Celina, ID	1095	142
	WYER	94.9	IL	Celina, ID Mount Carmel	870	"E
4004					1085	142
1704	WJJY	106.7	MN	Brainerd, ID	1180	143
					930	14.3
1713	WITO	08 1	MN	St Cloud MN war	1140	"É
1717	M MO C	90 5	TA	Cioux Conton ux TD	O/LS	143
1715	KUCK	00.0	IA TW	St. Cloud, MN wx Sioux Center, wx, ID Bloomington, ad, ID Fergus Falls, nx, ID Grand Rapids MN nx Sparta, state ID Hibbing, area ads La Crosse, ad	247	1112
1717	WIIS	92.5	TN	Bloomington, ad, in	1120	143 "F
1720	KJJK	90.7	MM	rergus rails, nx, in	1270	466
1720	KNNS	96.9	NM	Grand Rapids MN nx	1422	144
1721	MCOM	97.1	MT	Sparta, state ID	1085	145
1722	WTBX	93.9	MN	Hibbing, area ads La Crosse, ad	1280	Re
				Sioux Center, psa	945	"F
		unID			- 1	145
1740	KKYA	93.1	SD	Yankton, ad	925	"S
1744	WMHK	89.7	SC	Columbia, ID Morris, town ID Peoria, KZ-93, wx	1075	(ro
1749	KKOK	95.7	MN	Morris, town ID	1125	12
1254	WKZW	93.3	TT.	Peoria, KZ-93, wx	925	223
tr		,,,,			, ,	3/2
	WW A T	95.7	OΚ	Ardmore, ID	335	(Ba
Es	KKAO	72.1	OA.	Arthore, 12	اردر	lo
	WESC	02 5	an	Crosswells ID SC an	- 1	
		92.5	20	Greenville, ID, SC wa		011
1759	WEKU	00.9	KI	Richmond ID	995	011
1900	KELO	92.5	รม	Sioux Falls, ad	975	- /-
蓝						3/3 004
1801	KDNTt	94.5	ТX	Gainesville	300	
<u>Es</u>				Mount Vernon, ID Centerville, ad		005
1803	WMIX	94.1	ΙL	Mount Vernon, ID	820	010
1810	KMGO	98.7	IA	Centerville, ad	840	010
1814	WSPA	98.9	SC	Spartanburg, ID, m	1035	
1817	WLHN	97.9	IN	Anderson, twon ID	1030	014
1820	WVPEt	88.1	IN	Elkhart, j	- T	020
1825	WYCA	92.3			1040	•
	WWEZ			Cincinnati, ad	1135	
	WKQQ			Lexington, ad	999	tr
	WIKQ			Greenville, ID	1020	Mo
	WLAP	OL S	KA.	Lexington, ad	995	10
	WKXF					
	WBKR				1035	Ca
				Owensboro, wx.psa		73
וכטו	WVJC	04.1	T	Mount Carmel, ID	870	

```
7-1919 lull
19 XETRAt91.1 BCN Tijuana, r
                                      1100
  XHRMt 92.5 BCN Tijuana. r
                                      1100
26 XHMMFt92.3 BCN Mexicali, SS
                                      1010
30-1949, very spotty
really big event for Feb. For a while it
oked like things might be headed to some-
ing resembling the Feb. 7, 1977 event
e., the ch 13 Es to SD, etc.). Not easy
get ten new Es loggings in about 90
nutes. Very widespread, with almost si-
Itaneous Carolinas, Dakotas.
18 tr
30 KGEE 99.9 TX Monahans, k, ID
                                       295
55 KWES 102.1 TX Monahans, r. area ad
13 KWMJ 103.3 TX Midland, area ad
16 KNFM 92.3 TX Midland, town ID
                                       275
23
00 local 96.1 and 100.3(& its 95.3 xltor)
ll off(thunderstorm related?)lots of
ightning scatter enhancement on the
allas trop signals - about best I've heard
sth that exotic mode.
l tr
4 XHQQ 93.3 NL Monterrey, wx
22 XHPJ?106.9 NL Monterrey, local ads.
Stereo Classic"
27 XHJD 98.9 NL Monterrey, local ads
30 XET 94.1 NL Monterrey, ID
31 XHSRO 92.5 NL Monterrey, local ads,
Esterio Rey"
33 XHRK 95.7 NL Monterrey, "Stereo Rock"
35 XHIL 101.3 NL Monterrey, local ads,
M-tu"
47 XHNLt 94.9 NL Monterrey, SS
50 XHRL 98.1 NL Monterrey. "Esterio
ecuerdo"
52 X---?102.9 NL Monterrey, state mention,
M-Clen"
59 XHXL 91.7 NL Monterrey, local ad,
Sonida Noventa"
ough with local 3 dw at 6.5 miles apx.
20-deg. azimuth separation)
34 KGID 101.7 TX Giddings, ID, k
tr
ay have missed a lot to east earlier by
ooking sw to Mexico.)
14 KQXY 94.1 TX Beaumont, EL, ID
19 WCKW 92.3 LA Laplace, area ads
                                      495
3 tr
8 KNFM 92.3 TX Midland, ID
                                      280
58 KZOR 94.1 NM Humble City, ID, r
                                      360
00 KPER 95.7 NM Hobbs, ID, k
                                      345
03 KUFO 97.9 TX Odessa, area ads
                                      275
  KQIP 96.9 TX Odessa, ID
                                      275
44 KWMJ 103.3 TX Midland, psa
                                      275
05 KMTH 98.7 NM Maljamar, ID,s/off
A busy two months. The Mar. 1 Mexico
ropo lasted all afternoon - tried to get
onterrey newspaper locally to find out
02.9 call, but no luck yet. Their 106.9
all matches the La Paz 96.7 I heard!
3.
```



Technical Topics

More on Selectivity...

The last thing we mentioned was that selectivity can be as "snarp" as is desired, but then some of the transmitted information is lost. Thus a decision must be made. How important is the necessity to separate adjacent stations, and how important is it that ALL the signal is reproduced? Consider the hi-fi tuner manufacturer who is interested in coming up with a product with low audio distortion and wide frequency response specs. That's what sells tuners, after all, and there is no profit/cost-effective way to build a receiver with super audio numbers and 120 dB selectivity. That is, there's no cheap way to do it, so it isn't done!

For the sake of example and information, a chart is herein presented comparing some important specs of several tuners. Older models have been included for comparison with the here and now, and also because some are still in use by FM DX'ers. Notice especially things like price vs. good specs (not necessarily proportional:), and how some units with excellent sensitivity have mediocre selectivity. It is generally figured that, for top DX performance in strong or messy signal environments, a tuner ought to have at least or better than 90dB selectivity, 8.8dBF (1.5uV in 300 \Omega) sens., 90dB image rejection ratic. 90dB spurious response ratio. Capture ratio is up to you, hi:

On the positive side are some things available these days that make it possible to eventually produce (cheaply) hi sel'y/low distortion PM tuners. Charge-Coupled Devices and Surface Acoustic Wave integrable IF filters (SAW's) are being developed. Also, it is conceivable (though not reccommended) one can replace the existing IF filters in a tuner with higher-2 (higher-3) units for more selectivity. If such modification becomes more feasable (one big problem now is that R.F. parts are hard to find retail) you'll probably hear about it here. If you've done these sort of mods, please write.

Nowadays there are various schemes used to improve tuner performance by altering some performance parameter in accordance with signal conditions. The Carver TX-11 tuner has a "Delta-Q Detector" which changes the IF bandwidth to suit the strength of signal. In some models of car radios there are circuits that progressively blend the left and right stereo channels into mono as the incoming signal becomes weaker. Of course, this has the effect of quieting mpx. noise, when listening to stereo stations, but doesn't actually bring in more stations. Someone wanting to listen to a given station longer while driving might appreciate this feature, and it does seem to make the "picket-fence" effect less annoying. A variation on this idea reduces audio treple response as signal weakens. This is unlikely to help anyoody. But things like COD's, Carver's elaborate FM processing, SAW's, and formerly the Sonotz Detector (used in NAD stuff, for example) are costly ...

Now on to the chart. This info is gleaned from several sources, including the Audio magazine annual product directory. I apologize for the blank spaces in the chart: as any audio salesman knows. manufacturers are about as consistent as fashion when it comes to publishing specs. Since I had to rank the units some way, I chose selectivity. Prices are quoted at the time the unit was sold. If there are errors, please don't ootner to tell me because some of the sources even contradicted themselves: Happy comparing and 73's.



FISHER FM-AM TUNER · Model 80-T

With Preamplifier and Complete Audio Controls

With Preamplifier and Complete Audio Controls

**Unequalited among PM-AM tunners with controls, Model 80-T is idented to Model 80-R but has built-in Preamplifier-Buunizer, It uses TWO meters, for control-channel indication and signal strenth. Enterme tensitivity—15, microolus for 20-th quicting. Adjustable AFC, adjustable AM selectivity, Designed with sentrate PM and AM front ends. Response 20 to 20,000 excles, within 0.5 th, At one cold output distortion is less than 0.4%. Contains phonon and top-cheed preamplifier, with full containstantion controls. Three inputs, two outputs, including Multiplex, 10 tables. Beatte Contains Selector, Variable AFC/Line Switch, Station Selector, Rass, Tebel, Equalization, volume, 4-Position Loudens Balance, Siri 12/4" wide is 84% deep x 6" high, westitts 21 pounds. Makageny or Blunde Cabinet, Jouliable.

Chargie \$190.500. Collines \$17.05. Chassis \$199.50 · Cabinet \$17.95

Prices Slightly Higher in the West WRITE TODAY FOR COMPLETE SPECIFICATIONS

FISHER RADIO CORPORATION · 21-23 44th DRIVE · L. I. CITY · N. Y.

1	2	3	٠	5	6	7
1. MoIntosh MR-80, DT, 1984	1.8	110	1.5			2500
2. Heathkit 4R-1515, AR, 1979	1.8	100		90		400
3. Accuphase T-106, DT	2.0	1000	1.5			1100
4. Heathkit 4J-1510A, DT, 1976	1.8	95	1.5		90	580
5. McIntosh MR-78, AI, 19??	2.0	90 º	2.5	100	100	1700
6. Technics ST-9030, AT, 1978		90	0.8	135	135	400
7. Technics ST-7600, AT, 1976	1.9	900	1.0	50		180
8. Carver TX-11, DT, 1981	2.0	900	1.0	110	110	600
9. Heathkit AJ-1600, AT, 1981	1.8	800	1.2			400
10. Mitsubishi DA-F30, DT, 1982	1.8	75∘	1.50	100	100	
11. Yamaha T-760, DT, 1981	1.4	700	1.5	62	100	
12. Heatnkit AJ-15, AT, 1974	1.8	70	1.5	90	100	260
13. NAD 4155, DT	1.7	70	1.5	80		350
14. Yamaha T-560, AT, 1981	2.4	65	1.5	65	90	
15. Marantz ST-500, DT, 198?	1.7	65	1.50	80	90	
16. Proton (NAD) 300 table radio, 1984	2.0	60	1.5			280
17. Heathkit AJ-1214, AT, 1975	2.0	60	2.0	50		115
18. Carver TX-2, DF, 19??	2.0	58	1.5			375
19. Dynaco FM-3, AT, 1968	4.0	54	5.0			
20. Quad FM-4, AT, 1983	2.0	53	2.5	80		
Misc.						
Pioneer F-90, DT, 198?	1.9	85	0.8			320
H. H. Scott 559T, DT	1.7	75	1.2			250
Pioneer SX-V30, DR, 1984	1.7	85°	1.00	95	95	800
Realistic TM-102, AT, 1980	5.0	40		40		50

DF=digitally-synthesized tuner DR= " receiver

AT=analog tuner, sometimes with digital readout

Column headings: (1) unit and year introduced (2) "useful sensitivity" which means uV signal for 30dB quieting mono into $300\,\Omega$ (3) selectivity, in dB (4) capture ratio, in dB (5) image rejection, in dB (6) spurious rejection (or spur. response ratio), in dB (7) advertised retail price, usually allowing for a 200% markup, in bucks.

Equivalent Voltages

dBf	75	300
8.8	0.75uV	1.5uV
11.2	1.0	2.0
14.7	1.5	3.0
17.2	2.0	4.0
20.8	3.0	6.0
23.3	4.0	8.0
25.2	5.0	10.0
31.2	10.0	20.0

a difference of 6 dBf represents a 4 to 1 power diff'ce

> Tim McVey route 3 - box 568 Bolivar, TN 38008

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Amazing S Value... 🔾

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The perfect addition to any HI-FI system, TV set, phonograph or tape recorder!

• Frequency Range: 88-108 Mc.

- · Selectivity: 200 Kc at 3 db points.
- Audio Frequency Response: 20 cps to 20,000 cps.
- · Sensitivity: 4 microvolts
- Coaxial Tuner: Exclusive Granco
- feature assures drift-free reception.
- . Hum Level: 70 db below 1 volt
- Maximum Audio Output: 2 volts.
- · Antenna Input: 300 ohms ar
- Overall Dimensions:

ASK YOUR DEALER FOR A DEMONSTRATION

*Price slightly higher

See and hear Granco's FM and FM-AM table radios and high fidelity radio-phonograph combinations

Fred McCormack Pox 5221 State University Sta. Fargo, ND 58105

April 1985

Deadline: 5-10-85

Not much DX noted so far this year with the exception of New Mexico where Jim Pizzi has been doing quite well. Mary Shults also caught some February Es in Illinois.

New New Mode Tent. - t Unidentified - unid S/On - + S/Off - = ID Color Bars - ℓ Unidentified - unid S/On - + S/Off - = & IHTP - ℓ Misc. Test Patterns - &

Jim Pizzi, P.O. Box 1778, Lovington, NM 88260 (505)-396-3251

Equipment: Tri-Ex MW-65' Tower - @ 65', 10 element Antennacraft (hor) into Akai AT-V04 and JVC VT700 with Jerrold FM de-snower; @ 68', Finco P-7 UHF dish with Eu-4s preamp into Sony 8" b&w or Motorola 19" color: @ 72', Winegard CH-7023 (10 elements, chs 7-13) with Winegard AC-9730 preamp into Motorola 19" color. 35 Foot Tower - @ 35', Winegard CH-4054 with Winegard A-215 in house tube amp into Motorola 19" color; @ 38', OM 4250 6' UHF with Eu-4s preamp into 12" Emerson b&w. 20', 10 element channel 2 with Winegard AC-9260 preamp (channels 2-6); 35', CM-1110 with Winegard AC-9990 preamp

on 20' push up on garage roof; Channel 2 and FM vertical on 20' push up; Winegard CH-4054 on 10' mast; 25', 10 element Antennacraft FM (vert) into JVC VT900: 13', Winegard CH-4052 with Winegard AC-9260 preamp (chs

Year End Report: New or new mode - 77; New via Es - ch 2 - 4, ch 3 - 9, ch 4 - 3, ch 5 - 4, and ch 6 - 3; New via tropo - ch 6 - 1, ch 11 - 2, UHF - 7, LPTV or UHF translator - 44. A very good year considering the lack of summer E skip. I hope everyone had a good DX year.

January 1985			15 Es	1815	XHY 3 YU 1200	2 Es 1	
3 ms 0013 unids ch 7 ne				1816			(Es gone by 1850)
		(3 secs - 2 sta-		1840	XHFM 2 VR 1032	3 Es 1	655 KTVN 2 NV 1008
		tions - 10 kHz			(Canal 8 net)	1'	700 KCBS 2 CA 855
		to KVII- 7)			(Es gone by 1032)	1'	717 KEYT 3 CA 945
	0016	unid ch7 ne OkHz	20 Es	1525	WJXT?? 4 east		unid ch 4 wnw
	0019	WTRF t 7 WV			(CBS +/- offset,	1'	730 KNPB 5 NV 1008
		(CBS Nightline -			no ch 2-3 skip)		731 KPIX 5 CA 1116
		(CBS Nightline - 0 kHz - 2 secs)		1800	WDIQ 2 AL 1008		748 KSL 5 UT 707
		(Maybe KCMT-7)			WEAR 3 FL		758 KCRL 4 NV 1008
	0110	unid ch 8			WTVY 4 AL		800 KTVU 2 CA 1116
		(Micro-burst)		1824	WDSU t 6 LA NBC	1	806 unid ch 6 nw
Es	1708	XEW 2 DF 960		1844	unid ch 2 Mexico		(Is KOTT-Vernal,
	1709	XHRPM 2 1272			(SS gone by 1849)		UT on the air?)
4 Es	1650	unid ch 2 Mexico		1850	unid ch 2 e PBS		815 KRON 4 CA 1116
	1720	unid ch 3 Mexico	ms	1851	unid ch 2 XEW	1	850 KCRA 3 CA 1071
		(Es gone by 1745)	Es	1905	WEDU t 3 FL PBS		(NBC u/o KEYT-3)
8 Es	1725				(Mexico ch2 back)		859 KTLA 5 CA 855
	1804		30 Es	1104		1	900 KNBC 4 CA 855
		(MUF to 107.5)		1105	XEZ 3 QR XEW		(Es gone by 2030)
9 Es	1700			1106	XHGV t 4 VR edu	5 Es 1	
	1708				%XHPAH 3 HD		(Your Friend Four)
	1737	unid ch 6 Mexico		1125	unid ch5 Spanish		429 WBTV 3 NC 1206
	1755	unid ch 5 Mexico	31 Es	3 1740	WDTN 2 OH 1152		435 WDIQ 2 AL 1008
		(Local program)		1742	WSAZ 3 WV 1238		440 unid ch 2 east
	1808			1801	WAVE 3 KY 1049		445 WRCB 3 TN 1035
		(Ver?, Yuc?)		1802	WLWT t 5 OH NBC	1	500 WRBL 3 GA 1067
		(Es gone by 2030)		1933	WJBK 2 MI 1260		WSB 2 GA 1098
10 Es		unid ch 2 Mexico		1959	WBAY 2 WI 1125		506 WAGA 5 GA 1098
	1745			2000	KGAN 2 IA 878		527 WJBF 6 GA 1238
		(Es gone by 1830)			(Es gone by 2020)		528 WBRC 6 AL 959
14 Es	1700	unids ch2 Mexico			_	1	530 WCTV 6 FL 1148
		(Es gone by 1845)		ary 19			WTVY 4 AL 1067
15 Es		unid ch 2 Mexico	1 E:	s 1020	WESH 2 FL 1346	1	609 KSDK 5 MO 824
., 20							
., 10	1745 1806	XHGE 5 CA 1224			(Es gone by 1035)	1	831 unid ch2 Mexico?
,, 55		XHCE 5 CA 1224 (Canal 13 ID)		1725	XHRPM 2 CP 1272		831 unid ch2 Mexico? (Es gone by 1930)
., 10		XHGE 5 CA 1224			XHRPM 2 CP 1272 (Es gone by 1815)	6 Es 1	831 unid ch2 Mexico? (Es gone by 1930)

Western TV DX			April 1985
Jim Pizzi (continued)	9 tr 0022 KAVU 2	5 TX 468 11 Es 1700	unid ch 2 Mexico
	Es 1755 unid ch	2 Mexico	(Oral Roberts in
6 Es 1900 KTVU 2 CA 1116 7 Es 1700 unid ch 2 Mexico (Es gone by 1800) 2030 unid ch 2 Mexico	(XEW - 1756 unid ch 11 Es 1610 XEWO t 1631 XEHL	2 JA XEW 1858	SS under XEW) XEWO 2 JA 840 XHIR 2 GR 1020 (Canal 13 0kHz)
(Es gone by 2050)	1645 XHIH??		XHAP t 2 GR XEW
tr 2353 = KLDO 27 TX 441	1652 XHJCM		unid ch 2 ne
(Weak)	(Canal		(Es gone by 1758)

I have re-thought on the location of XHPAH-3 being in Pachuca, Hidalgo instead of Actopan, Hidalgo. The PA for Pachuca and the H for Hidalgo - seems more reasonable, as Pachuca is the capital of Hidalgo.

I got a leter from Walter Patton (Willowdale, Ontario) about my August 13, 1984 reception of CJFB on channel 2. He says his info has CJFB-2, Val Marie, and CJFB-1, Eastend, Saskatchewan at only 5 watts, but CBCP-2, Cypress Hills, Saskatchewan at 2.5 kW. (I thought so - but didn't know for sure). I've changed my log to CBCP-2 as it was probably the one I saw.

Quite a bit of Es DX to start off the new year - same way 1984 started. So I'll take the Es now because there might not be any later! Trops almost non-existent so far - but it's been cold and dry around here. Should pick up soon. No sign of Waco, channel 25. vet. Will keep looking. That's about it. 73's, Jim

(Jim mentioned in his comments to me that, in the February column, I had shown his December 12, 1984 logging of XHIH-5 as XHIX-5. Sorry about the error, Jim. Jim went on to say that he thinks XHIH may be in Chiapas or Campeche states or even in Oaxaca state. With regard to your meteor skip tentative of WTRF-7 and your suggestion that it might be KOMT-7. I can assure you that it was not KOMT-7. They do not carry CBS Nightline. fm)

Marvin Shults, RR#1, Toulon, IL 61483

CLT?

April 1985

February 198	35			According to an article in the Peoria Journal Star, channel
5 Es 1800	XEFB	2 1	1L	53 should be operational within six to nine months. Channel 53
	KIII	3 :	CX.	is to be an LPTV station with a range of 10-15 miles and would
1808	KENS	5 7	ľΧ	carry satellite programming from KUSK, Prescott, Arizona. MTV
1809	KCBT t	4	ГX	programming was mentioned as a possible format for the station
				with no local origination scheduled.

This situation will be something to watch if both channel 53, Peoria, and channel 53 in Pontiac should go on the air as there is only a 54 mile separation between the two cities. Channel 53, Pontiac, being listed as a more powerful station, should blow Peoria 53 away a good deal of the time, especially to the northeast.

According to a consulting engineer for Convocom, WQEC-27, Quincy, Illinois has been testing in preparation for going on the air in the near future. The tower is about 500 feet tall and is located near KQHA-7's tower north of Quincy, Illinois. Their power should be around 20-25 kW erp, much the same as WIUM, Macomb. He said channel 27 will probably be ID'ed on the same ID slide as WUPT-14 and WIUM-22, at least in the forseeable future.

73's, Marv

Fred McCormack, 135 Prairiewood Drive, Fargo, ND 58103

CST

Equipment: VHF: Broadmoor 9" black & white, Winegard CH-7078; UHF: Magnavox 19" color, Winegard CH-9095, Blonder-Tongue CMA-Uc pre-amp; Alliance rotor.

Only one logging to report this time. On February 27, 1985 at 2035 CST, I saw K42AO from Alexandria, Minnesota translating KWCM-TV. This was a new logging. I believe K42AO is to replace K62AU which has been translating KWCM for a number of years. This results in all the translators operated by the translator company at Alexandria now being on channels from 30 to 42. K42A0 was an LPTV award to Midwest Radio-Television, the owner of WCCO-4, but they sold it to the local translator company.





Fred Nordquist 7945 Boxford Road Clay, NY 13041 Deadline: the 5th

ALL-TIME FM DISTANCE RECORDS

FR STATIS	TICS	- APRIL 1985											- -					
FREQ/PR C	ALL.	LOCATION	MILES	DXER	-LOC	FREQ/PR CA	Щ	LOCATION	MILES	DXER	-LOC	FRED	/PRICA	ا شا	_COATION	MILES	DXSR	⊢L0C
88. 10						99.89				_		92.		_				
Es MCRP	9R	Suayana	2280			Es YSU	ES	San Salvadore	1233	бна	TX				Orlando		FMc	
Tr KSJB				Pi	NM	98.10									Orlando	1638		TX
XS KTXT	TX	Lubbock		FMe2				Collegeville							Montgomery		JE52	
Au MUTC	TN	Chattanooga	661	DNi	NY	Tr KPFT		Houston			FL	92.		UK	Portland	1017	Fic	NU
88, 39						MS MMBI			1963		Ŧχ			-	Panama City	1589	D4-	ND
Es CBLJ			1488		TX		i i i	Collegeville	/66	SUR	(IN)					1889		TX
Tr MANC				FMc		99.38			(EDS	F4 -	NY				Key West Dallas		IJе	
		New Orleans		DNi				Corpus Christ		LVc					Toledo		Face	
	NY	Syracuse	678	ABo	IL	Tr WHLA				EVC EHa		92.		un	101600	/43	FREE	22
88.40								Ft. Wayne		FMc2				C 1	Stuart	1592	B €12	
	SU	Suatemala	1136	6Ha	11	98.58	14	rt. Mayne	/04	FRUC	NU U				Jenninos		J₽i	
88. 50		_					T24	Sour Tree	1050	Љi	Nati				Navoaca			DN
Es WHOF				PDy				East Lansing		Rido					O'Neill			ND
		Atlanta		BH:a	IX			Maryville		FNo		92.		_	D NEILL	720	i rac	
		Winston-Salem		JEb		Au CBHA				FMe2				384	Duluth	1644	Ha	CA
88.70	IJ.	Washington	336	JEU	men	98.78	,	DETTION	1000	· mgc	5,				Mobile			MD.
	117	Muddan	1760	JJe2	00	Es KOBC	M 3	Innlin	1500	JJe	CO.				San Antonio	1251		OH.
		Madison Edwardsville	561			Tr KVNO				DNi					Burlington			IL.
ME MHS		Madison		SHa				Delafield		WBi		93.		•,	Dar 11/1940/	411	Tape	•
AsimHA		Madison Madison		FMc				St. Louis		Æε	-			TY	El Paso	1818	MDi	MD
88.80	#1	HAUTZOIT	007	FPC	NU.	98.98		211 20213	-						Syracuse			MN
	-	Suatemala	1140	PDy	77		MG	Warrensburg	1534	I.Ie	CO				Sturgis	1183		LA
88.98	OU	Dracemers	1170	ruy	**			Cedar Falls		FNo					Detroit		JEb	MA
	٧v	Richmond -	2020	Рi	NA.	HS CBX		Edmonton		JJe2		93.		.,.				
Tr LANGU		Chattanoona		BE13		Au KUNI	IA	Cedar Falls	589	FAC	ND	Es	XHQQ	NL.	Monterrey	1385	RBr	MI
		Chattanooga		BHa		91.10									Monterrey		SHa	TX
		Chattanooga		FNo		Es JBC-2	JA	Coopers Hill	1950	Ъi	NH	93.						
89.80	111	C.ies servoga	170	1140	141			Jacksonville				Es	KTEN	OK	Ada	1454	RSt2	М
	FC	San Salvador	1246	35v	TY			St. Paul		5Ha					Тамра		PDy	
89. 10	La	DEN DELVELOY	1240	ruy	I A			Vincennes		FMc2					Port Arthur		PSa	
	ш	Richland	1629	PDy	TY	91.30						Au	MBBM	DH	Youngstown	689	JEb	¥N.
Tr KHEN		Wichita		BE12		Es WIPR	PR	San Juan	1886	CHo	DH:	93.	50		-			
		Richland		JJe2		Tr WTHS	FL	Miami	1148	SHa	ΤX	Es	KLKC	KS	Parsons	1459	JJe2	CA
Au KALM	KS	Wichita	651	RBr	MI	MS CKUA	AT	Drumheller	1955	JJe2	CA	Tr	KRFG	MO	Greenfield	623	FMe2	DH.
89.20						Au WCNY	NY	Syracuse	536	RBr	舞	#S	WHJT	ĦS	Clinton	937	PSa	DN
Es XEJT	TA	M Tampico	974	Gia2	ОK	91.50						Au	WLIH	WI	New London	339	ABo	ΙĻ
89. 38						Es RJR	JA	4 Oracabessa	1950	JΡi	NM	93.	70					
Es WOLM	ΙL	East Moline	1696	JJe2	CA	Tr WFSU	FL	Tallahassee	735	RSa	TX	Es.	WJIT	₽R	San Juan	2263		СK
Tr MPCS	FL	Pensacola	808	RBr	MI	MS MAND	WI	Suring	1219	6Ha	TX	Tr	KBNC	ΤX	Houston	1104	CHO	OH
MS WHAN	WI	Chilton	1168	GHa	7X	Au WRPI	NY	Troy	512	FNe	HI				Lawrence		RCo	
	Ħ	Northfield	712	SCh	0N	91.76								SD	Winner	682	ABc	IL
89.48						Es KRSW		Worthington		JPi		93.						
Es 160	8	Quetzalt	1168	6Ha	ΤX			Stillwater		BE:	MN				Iowa City		JJe2	
89 . 50								Stillwater		Pite					Miami Beach		6Ha	
		Portales		DNi			m	Horthington	861	DNi	NY				Miami Beach		SCh	
		Portales		JAy		91,98		.						50	Rapid City	838	ABo	ΙL
MS MNIU				6Ha				Carbondale		JPi		94.						
Au MPKN	CT	Bridgeport	798	ABo	ΙL			Carbondale		GHa			XET	NL.	Monterrey	1382	JE5	Ħ
89.60	_					MS WHRM				RMo		94.						
ES TEXOX	GL,	Suatemala	1136	6Ha	TX		IL	Carbondale	741	FPc2	ND				Clarkston			ΚY
89. 78	-	_				92.00			•						Little Rock	1043		NY
Es NUST				JJe2			IA	# Cd Victoria	873	8Ha2	UK				Beaumont	1192		DN
TH MMCU				6Ha		92.10							KCKN	KS	Kansas City	881	DNi	ΝY
AN MEEH		Denison		LVo		Es CJRY				DNi		94,				4545		
89. 98	178	poston	914	ABo	ΙĻ	Tr CKY		Winnipeg		FMe					San Fernando			IA
	-	Jacksonville	1500	~.	N/D			Jackson Sun Prairie		S&r ABc					Riviera Beach			TX ND
Tr MJCT		Jacksonville				92.15	41	odn Prairie	200	HDC	i L				Sak Ridge		FMc RBr	
MS MHSA		Brula Prula		LVo		Es CMBC	r:	Hahana	1200	6Ha2	ne.	+44	UP HOM	m o	Winnipeg	/43	rust.	ΗŢ
ALL MHSA	Fig.	Bruita		FNe		LS LHOL	u.	HGJ4714	1533	عفدان	un.	1	Œ	NTI	NUED NEXT PAGE			
~			730	176	1714	1						4						

	T FECULIARY ,															
94, 58					96.90						99.50					
	FL Naples		FMc2				McAllen Fort Myers		BE 12				Douglas St Petersburg		JJe2	
	LA Lafayette MN St. Paul		RBr PDy		MS HLAV		Grand Rapids		SHa2				Washington	1382		ŵ
	VA Richmond		38r				Atlantic City				Au WKDQ		Henderson			MA
94,78	*** (185.1867.18				97.18		•				99.78					
Es KTTS	MO Springfield	:569	JJe2	CA			Crookston		JJe2		Es WOOF			1454		vD.
	MD Springfield		BE15				New Orleans		RBr		Tr MC		Memphis			¥Υ
	MS Jackson		PNo		MS KWEH				SCh		1		Columbus	1989	FMe	ΚĐ
ALMPTF 94.88	NC Raleigh	215	FMe	R1	97.38	₩1	Sparta	231	FMc	NU	99.90	: 1	Hemphis	291	- 716	P 2
	GU Guatemala	1136	6Ha	TY	Es WICD	FL	Miami	1596	BE 12	IN	Es KTSM	TX	El Paso	1678	2Se	NY
34. 98	DD COMPENSION					_	San Antonio	1103			Tr KROB		Robstown	1175		MI
-	FL Miami Beach	1948	FMc	ND	MS KBUF	KS	Kansas City	1240	SCh	DN:	MS KTOM	M	Clovis		JJe2	
	FL Miami Beach	1152		TX.		IA	Des Moines	782	SCh	3N	Au KFAB	ΝE	Omaha	554	FMc	70
	6A Decatur		FMc		97.58		n				196.19				-	137
	IA Des Moines	688	FME	ND			El Paso Winterhaven	167 8 1827		NY TX	Es KATQ Tr HENE		Plentywood Forsyth		FNo FMe2	
95.00 Es ZFB	9M Hamilton	1774	æ	MT .			El Paso	1160	•	IL.	MS CBRX		Lethbridge		JJe	
ES 175	Dr. Hamilton	1314	apr.	r.ı			Watertown	703		1	1		Ashland		RBr	
	CO Colorado Sogs	1555	ND i	MD	97.70						198.38					
	FL Jacksonville			ΤX			Vancouver	1526	Љi	Ne	Es MCUP			1581	FMc	ND
MS HLST	WI Marinette	1146		TX			C Merida		WBi	-	Tr WMGN		Meadville		BE12	
	KS Wichita	651	RBr	*I			Vidalia			NY	MS KBOX				FMc	
5.38	10 0-1		nc -	~~	97.98	7	Montreal	686	RSe	ĦΥ	Ru WZEN 100.50	IL.	Alton	112	SCh	UN
	VA Petersburg FL Apopka		RSa SHa		i	2 70	L Guadalajara	2066	950	ΝV		UΔ	Norfelk	1517	Plc	ΝĐ
	ON Hamilton		SRe				Palm Beach	1142		ΤX			Jacksonville			
5.40					MS HNCI	OH!	Columbus	1989		ND			Huntington		SHa2	
Tr XHOX	TAM Tampico	491	GHa	TX	Au WSIX	TN	Nashville	726	SCh	3N	Au WWKI	IN	Kokomo	692	FXc2	ND
5.58					98,10		_				100.78	_				
	FL Fort Pierce	1619			Es WYOF				FAC		Es WDAE				FRC	
	TX Austin KS Dodge City		WEi				St Louis Lexington		FMc FMc	ND ND	Tr KORQ		Abilene Ft Lauderdale		JAy	
	NC High Point		JJe2 SCh				Kansas City		F1c2		Au KGBI				FAC	
5.78	NC migh Point	001	SC:	U.S	98.39				,	•	100.98		Oma ra	٠.		
Es #FID	PR Rio Piedro	1855	DNi	NY	Es OFLY	ON	Kingston	1546	JΡi	NK	Es KSRT	CA	Tracy	1442	6Ha	TX
Tr KXXA	AR Little Rock	1643	FNo	NY	Tr CBM		Winnipeg		ABc		Tr WQSI		Union Springs			
	DK Andalone		DNI		#S KARB		Price		JJe2			M	Luverne	406	FMC	ND
	OH Picqua	467	FNo	NY	98.50	ON.	Kingston	584	АВС	1_	101.10	D.	New Westminst	1027	On.	ĦĪ
5.90 5- vivu	MN Faribault	· 5£1	JJe2	60	Es KPAC	T¥	Port Arthur	1650	Solar	ΔΤ	Es CFMI Yr KLOL		Houston			MI
	KS Russell		5Ha				Little Rock		MBu				New Orleans		SCh	-
	PQ Montreal			71			Kingsport		JPi		Au WKZU	M.	Carrollton	843	SCh	ÐΧ
	MN Faribault		FMc	ND	Au WSB	GA	Atlanta	588	9Sa	ŢX	101.38					
6.10					98.68								Hampton		FMc	
	BC Vancouver		JPi			GU	Guatemala	1503	JÞί	NM	Tr KFDI		Wichita		BE12	
	FL Jacksonville		•		98.78	TV	Victoria	1570	FNo	au.	MS KIDWB Au WEZO		Richfield Rochester		SCh FMc	
MS KID An Lavic	ID Idaho Falls GA Atlanta	1224	- PBr	TX at	Tr MHOP		Hopkinsville	725			101.50	747	wordester.	1200	FML	.100
6.38	On Metalica	300	, upi	.7.			Greensboro		SHa2			Fi	St Petersburg	1533	FM-2	NZ)
	IL Chicago	1842	JJe2	CA			Detroit		KBu.		Tr WLYF			1155		Ţχ
	FL Miami		PDy		96.98						MS WIBA				Swe	
	Fi Miami		98 0				Rochester	1584	•	TΧ		GA	Marietta	573	RD-	ΝI
Au NJR	MI Detroit	541	JEb	MM	1		Tallahassee		PDy	TX	101.70					
6.50 En imm	00 5	(000	40	*1	#S KROZY		Pueblo Spartanburg	1938		IN MI			Tanlequah		JP:1	
	PR Fajard TX Corpus Christ		ABo		99.18	J.	Spartanourg	336	RBr	16.7			Myrtle Beach		SRe	
	TX Corpus Christ					MN	Mankato	1523	JJe2	CA	101.90	r1±	-41:37:14	L-71	FMc	w.
	CT Hartford				Tr KODA	ΤX	Houston	1184	046	OΗ	· ·	MA	Falmouth	1576	FMc	ΝĐ
36.70							Jacksonville						New Orleans			
	ON Kitchener	1438	JPi	NH		ID	Idaho Falls	608	FMC	C /	MS KEMQ	ΝĒ	Lincoln	849	95a	ON
	OH Fostoria	581	BE12	MN	99.38						Au WRIE	ΗI	Wausau	683	FMc	ND
	IL Joliet	347	Æb	***				1526								
	IL Joliet	347	Æb	3 9 8	Tr WEZY	FL		1978	ЗНа	TX			ONTINUED NEXT			

FRED/PR CA	LL LOCATION P	RILES DXER	-L OC		ALL LOCATION	*ILES !	0XE 7-L20	FREQ/PRICA	LL LOCATION	♥!LES DXER-LOG
182, 18				184.18				106.18		
	TX Houston	1506 JP:			E TX Houston E TX Houston		JPi: 09	Es WKSC	MN Cumberland OH Mansfield	1445 JPi VM
	TX Houston MN St Paul	986 RBn 1829 RSa		#S HJY		1861	RBr MI JPi NM		OR Corvallis	633 RE12 MN 459 JJe DA
	TX Ft Worth	592 ABo			Y IN Evansville		JEB MA		TX Denton	661 ARc :_
182,38	7			184.38				106, 38		401 140 15
Es MPTH	NC Roanoke Rapid	1479 JPi	NM	Es WKT		1485	JP: NM		9A Blairsville	1431 JP: NM
Tr HLRS		671 BE1		Tr WZYI			RSa TX	Tr MNDY	IL Crawfordsvil	
	VY St Albans	666 RBr	¥Ι	MS WOM	MI Detroit MI Detroit		FMc NO		TX Hereford	11 03 JJe2 DA
102.50	FL St Petersburg	1A1A DES) Mai	104.50	a mi petroit	743	PMc2 ND	186.58	WY Cheyenne	949 RB- *:
	NY Buffalo	1191 Rio		Es MEAT	FL W Palm Bear	th 1895	Pro ND		NC New Bern	1552 FMc N0
	MN Willmar	801 SCh	DN	Tr WAS	D- Wooster	€54			IN Washington	976 FMc NO
ALL WIBEN	NY Buffalo	730 JE5	XX	S KEX	. TX San Antonio	1103	RBy MI	MS WSTP	NC Salisbury	969 GHa2 CK
182.78					OH Wooster	639	JE5 M		WI Marshfield	591 FM2 ND
	FL Pompano Beach			164.78	. C. T.	2222	TD:4 DO	106.76		
Tr WREC	TN Memphis	812 BE12 1818 GHal		Tr WRBG	FL Tampa FL Tampa		JP11 DA	Es WRVR Tr WSDO	NY New York	1448 FMc ND
MS KCYS	MA Richland MA Richland	850 FMc		MS KIDA		979 898	PDy TX SCn EN	MS MAAA		891 GHa2 OK
182.98	WH MICHIDIAL	DOM FINE		1	SD Sioux Falls		ABC IL		CO Denver	596 JEE MN
	MN Minneapolis	1571 JJe	CA C	184.98			,,,,,,	106.98	OG DENVEN	DJO JEL MA
Tr KOLE		11 04 Dho		Es KSMI	LA Donaldsvill	e 1375 i	PM: ND	Es KNRO	TX Conroe	1488 JP11 CA
MS KMGC	TX Dallas	1274 SCh		Tr KNRE			BE12 NN	Tr KNRO	TX Conroe	1879 CHo 3H
	WI Milwaukee	473 SCh	O۲		NE Wayne	943 1	DNi VY	MS WKXX	AL Birmingham	956 JPi 🕅
103. 10				195.18				Au MSMT	IL Peoria	557 FAc2 ND
	MB Winnipeg LA Columbus	1413 PDy 556 ABo			MD St Joseph FL Orlando		JJe2 CA	107.10 Es WLCF	10.0 11. 1	
	SD Madison	369 FMc			FL Coral Gable	1842) 5 1147 :	PDy TX RSa TX	Tr KASI	NC Southport IA Ames	1572 FMc ND 635 CHo OH
103.30	Dr 78013011	JUD 17AL	.40		OH Sales	685			#N Hutchinson	626 SHa2 DK
	VA Tasley	1429 PDy	TX	185.30		\		167.30	/#1 //dvL(:1/190))	DEC BREE US
Tr KEEE	TX Nacogdoches	982 CHo		Es CFCA	ON Kitchener	1438	joi NK	Es WWBA	FL St Petersburg	1707 FMc2 ND
	TX Wichita Falls			Tr WVSL		837 F			SC Ancerson	998 SHa TX
	GA Atlanta	548 FMe	¥Ϊ	≯S KXKX		1098 9		MS WWBA	FL St Petersburg	1091 PSa DN
103.50				105.50	PA Philadelphi	a 611 9	RBr #I	Au WEDL	OH Elyria	613 JEb 🤼
	MN Mankato FL Ft Lauderdale	1523 JJeé		Es WRAR	VA Tappahannoc	. 1170 7	- LA	107.50	00 P	4505 MI 19
HS KOA	CO Denver	896 ABo		Ir WELL	. , ,			Tr WDWG	PA Boyertown SC St George	1505 6Ha TX 959 DBu OK
Au KOA	CO Denver	696 JEb	MN	MS WSMT		739 3			TX Ft Worth	1298 SC: EN
103.70				Au WXEZ	OH Sylvania	286 9	Bc II		N Lakewood	699 JE5 YA
Es WEZS	VA Richmond	1494 JPi	NO	105, 78	-			107.70		
	AR Little Rock	1176 MBu		Es CBU	BC Vancouver	1526 J		Es WGNA		166@ PDy TX
	TX Dallas	1274 SCh	-	Tr W000					NC Greenville	839 RLe LA
Au KIIK 183.98	IA Davenport	642 SCh	BN.	MS KHCB	TX Houston TX Houston	1065 J			TX Beaument	1192 PSa CN
	98 Meadville	14 0 9 JPi	NM	185.98	IX mouston	1 0 65 J	IED RA	187.98	MO St Louis	661 FMc2 ND
	OH Westerville	817 DBu	DK		CHI Juarez	1826 F	Me2 OH	1	MD Annapolis	1423 PDv TX
		rleston		Tr WAXY	FL Ft Lauderdal				FL W Palm Beach	
	n Michalek MA Spr				TN Nashville	1123 F	Mc NO	MS KLVY	TX Edinburg	1962 ABo IL
	ce Elving MN Add				CO Denver	696 J	Eb 4N	Au WAUR	IL Aurora	824 KBu CT
	ce Elving MN Dul		JAy	Jim Ayer			PSa	Peter Sawatzk	ON Waterloo	7
	ice Elving NE Kea		JCo	John Com			RBr	Russ Brown	KI St Joseph	← ≘
		iontown	JEb	John Ebe			RCo	Robert Cooper	OK Oklahowa Cit	y
	e Brumfield IN Mu		JEb2 JFe	: John Ebe Joseph F			RLe	Ron LeBianc	LA Marrero	្តូស្គ
	my Buntin OK St: mis ⊁oe IA An	illwater osnar	JJe		ferson CA Concor		RSa nc-	Rick Sauford	TX Burnett	N Bolivar AR Benton -L Tallahassee //NAME/LOCATION
	mis zoe - In An rid Nieman - NY Ako		JJe2		ferson CA Pleasa		RSc RSo		r NJ E.Brunswick	हु १ है । हु है ।
		ttle Rock	JJe3		ferson AK Anchor		RSt	Robert Seybold Raiph Strobel		Pent all
DOe Dar	iel Detting PA Br	oomall	JPi	Jim Pizz	ti № Loving	ton	RSt2	R. Steinberger		2 2 2 1 X
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	ank merrili on 10 ed Nordquist NY Cl		MEu	Mike Bu			SRe cz-	S. Remington	C. NEW CETER	Fire Werra Halo
		n Cray	NDi		kerson MD Sharot		STo Skie	Steve Toaffe Steve West	IN Vincennes PA Havertown	ii)
	enn Hauser OK En		ppy	Pat Dyer			701		r KY Louisville	5 Kg 14 X C

NORTHERN FM-DX

Saul Chernos 79 Ridge Drive Toronto Ontario Canada MATIB6

Two reports received so far indicate less-than-great DX in this reporting period. I heard of a bit of FM Es early in Feb. but not much else. Gearing up for the summer...time to tune that receiver, clean the gears in the rotor control box, and cleaning out the garage. I hope 1985 is better than 1984. Looks like I'll be in Burnt River again this Summer or at least in Toronto, so I'll be adding to one of those log books. I'm pretty sure that in two months, my Ottawa logbook will close for good; I certainly hope so.

JOSEPH FELA - 150 Robert Place - S.Plainfield NJ 07080 ELT OCTOBER 1984 13 Tr-GW (WKDN 106.9off)
0030 WKCS 106.9 MD Hagerstown r "X-107" Nov. 27 Tr 2000-2200 Extremely strong to Providence RI & all of Cape Cod MA. 0034 WPCX 106.9 NY Auburn k "Pix-106" 2118 WOMR 91.9 MA Provincetown late '60s r 0048 WTID 106.9 VA Suffolk k ID 2200-2330 plus Boston FMs in, but w/ disappoint-NOVEMBER 1984 ing signals in view of earlier Cape sigs. 19 Tr-Gil 2200 WLFR 91.7 NJ Pomona r "testing" DECEMBER 1984 22 Tr-GW 25 Tr 0101 WMJR 107.7 VA Warrenton oldiesr 1100 WFGB 89.7 NY Kingston Contemporary Christian programming. May have been 1st day of programming; 0202 WHFC 91.1 MD Bel Aire a radiothon Higher than WJB 97.7, they're much weaker. 0306 WZOU 94.5 MA Boston r "Boston's Zoo"

COMMENTS: WIJB may have more favorable direction pattern. (Ed: Do you mean higher as in power?). WDST WOODSTOCK NY not seen on 100.1 since Nov., so may now be on 102.3. Too much WSUS, WBAB on 102.3 to get them yet. (Ed: A great article on WDST in the New Yorker magazine of Feb. 4, 1985, with the angle on their comedy program host Steve Charney. They've got a truly unique station there.)

LETS KEEP LOCATIONS IN THE REPORTS. IT WOULD BE A PAIN TO CONSTANTLY HAVE TO LOOK UP A STA-TION'S LOCATION. (Ed: wish granted)

Bob Smolarek brought down his Carver in late Dec. for a head-to-head comparison with the McIntosh MR-78 "under battlefield conditions" (using a high gain antenna in an area saturated with signals, many quite strong). First of all, at DUNKIRK '83 convention, the MR-78 & Carver came out equal, but conditions were less demanding. But here, the MR-78 was able to pull out a number of stations which couldn't be found on the Carver. Two examples: WTYD-100.9-CT-New London w/antenna pointed AT local WCBS 101.1 NYC. Both stns in same direction, wTYD almost fully readable on MR 78, not there on Carver. WLCE-99.3-NJ-Pleasantville next to very-local WAWZ-99.1. Also, WKRZ-98.5-PA-WilkesBarre was in the clear on the MR78 but on the Carver was QRM'd by nearby WMGQ-98.3 & local WRKS-98.7. During this comparison, cx were your basic wintertime dead (no Tr). The MR 78 may be a great receiver, but it's list (\$1700)cost does put it out of reach for many DXers. I'd still also recommend the Carver, at less than a third of the MR78's cost. It's also an excellent rcvr, head-&-shoulders above everything else that I'm aware of (except the MR-78) in the very important area of selectivity. 73, Joe

CNOWLARDS DR. H. D. 12 Libit house Station NI 00000 Common TVII tunon (ME KNOW

BOB SMOLAREK - RD #1 - Box 63 - 1	Whitehouse Station NJ 08889 Carver TX11 t	uner (<u>WE KNOW</u> , heh!-sc)
SEPT 1984	Nov. 27 Tr (cont'd)	
8 Tr	2032 WSNE 93.3 MA Taunton o/WMYR	
2310 WYRK 106.5 NY Buffalo	2037 WPJB 105.1 RI Providence o/WRFM	LEFT OVER
9 Tr (WYNY 97.1 & WCHR 94.5 OFF)	2107 WHJY 94.1 RI Providence o/WYSP	SPACE DEP'T:
0058 WASH 97.1 DC Washington	2128 WOMR 91.9 MA Provincetown ErnieCoo	perLand
0102 WBGW 97.1 ME Bangor	2145 WCIB 101.9 MA Falmouth Boston Celti	cs game I highly recom-
0125 WRUT 97.1 VT Rutland	2217 WCOD 106.1 MA Hyannis o/WZGO	mend the New
0149 WSHH 99.7 PA Pittsburgh	2219 WQRC 99.9 MA Barnstable o/WEZN	Yorker articcle
0155 WWSW 94.5 PA Pittsburgh	2224 WRZE 94.9 MA W.Yarmouth	re WDST that I referre
<u> 18 Tr</u>	DEC 1984	to in Joe's rep't.
1830 WJEJ 88.9 CT Hartford	11 GW (WRFM off-air)	Also, DXers are not
OCT 1984	2130 WILQ 105.1 PA Williamsport	the only one's in-
16 Tr	22 GW (stn new-to-air)	terested in Es. MS.
2215 WSFL 106.5 NC NewBern	2200 WFGB 89.7 NY Kingston	etcthe government
2300 WOEL 89.9 MD Elkton	FEBRUARY 1985	is too, for their
2340 WMTR 95.9 DE BethanyBch	9 GW-Tr EMPIRE STATE BLDG POWER FAILURE	communications
NOV 1984 "96-Rock"	1635 WRKZ 106.7 PA Hershey no WLTW	(military, etc).
8 GW (stn new-to-air)	1637 WYST 92.3 MD Baltimore no WKTU	I'm going to see if
1835 WLFR 91.7 NJ Pomona	1638 WPRO 92.3 RI Providence no WKTU	I can get info about
25 Tr	1638 WXYV 102.7 MD Baltimore no WNEW	their discoveries
0117 WZOU 94.5 MA Boston	1641 WKYS 93.9 DC Washington no WNYC	(if any) re Es,MS,
27 Tr	1642 WKXZ 93.9 NY Norwich no WNYC	-out of space,73s,s.
2015 WMYS 98.1 MA NewBedford	11715 WKSB 102.7 PA Williamsport no WNEW	

o/WCAU

Doug Dornbos 3009 Port Sheldon Hudsonville, MI 49426

Dear Fellow Di'er:

April 1985

This letter is being sent to you because of your known love of receiving antenna systems. The chain cannot be broken! It works like this; Within ten days of receiving this letter, go to the person's house who is on the top of the list below and install an antenna system. Next, drop their name from the list and put your name on the bottom. Mail a copy of the letter to 5 people. Within 60 days you will have 3125 antenna systems permanently installed at your residence.

This chain was started in 1959 by Marconi's grandson and has never been broken. Its' magical power has been proven time after time. A New England man returned from the post office after mailing his 5 letters to find himself in the middle of an e-skip opening so strong that he logged 251 new channels in less than 4 hours!

BEWARE however of the dangers of breaking the chain. A southern Californian dx'er decided to throw his letter away and within 10 minutes after the garbage collector came his 60 ft. tower collapsed from an earth tremor, his cat (scared by the tremor) peed on his station log rendering it useless. and his mother-in-law who couldn't stand radio static called to announce that she was moving in for the next 6 months.

Dx'er; now is the opportunity of a lifetime. Complete the chain today and enjoy an antenna farm that all your neighbors will be jealous of. Remember that what you receive in life is in direct proportion to what you give it.

73's

L.E. Ment 9 Parasite Rd. Ecomtown, TX

D.B. Gain 20 Log St. Gainsville, FL

E. Skip at intersection of Space at Mosphere Bounceland, ID

Phil Tertrap 1 Notch St. Band Pass, CO O. Penning 100 Nowhere St.

The City that Time Forgot, AM

MEMBER'S INPUT****

Ken Blair has written to me with a question I cannot answer: What percentage of tv stations are currently transmitting with circular polarization? Also, Ken mentions building an array of vertical antennas at ground level to capture channels 2,3, &4 during the ES season. Can anyone offer him any suggestions? I am at a bit of a loss on this one. Last month my VUD was missing a few pages. I let Dave Nieman know and within a week or so had a complete copy in the mail from Mr. Bill Thompson. I think it is hard to understand just how hard that these guys work to keep the club working for the rest of us. It is my opinion that they do an excellant job and are to be greatly commended. Thank-you gents. Ed Frye wrote mentioning his good luck at receiving information from the folks listed in December's directory of manufacturers. By the response I'd say that this should be repeated every year or two. Tim McVey and myself have an interesting dilema which needs resolving. Since his column "Technical Topics" could in all reality include antenna related material, do we talk antennas in both places? Do we talk tech in one column and not in another? Should "Antenna News" get more/less technical? Please let us know what you think. Rick Baumbach has had good luck with obtaining Winegard products at dealer cost from a company called R.F. Electronics, 1086-C N. State College Blvd. Anaheim, CA 92806. For 2 dollars they will send you a Winegard catalog and price sheet. To order products you can call 1-800-854-4655 except in CA. Rich Wertman wrote sending me a picture of the new Antennacraft parabolic Uhf antennas. Being named models P-5 and P-7, I would dare say that they bought out the rights to the Finco product of the same description. Both models are UPS able with Wertman providing availability.

INDOOR FM ANTENNAS********

Antenna News

In considering indoor fm antennas, it is useful to review some basic concepts. The first is that you double signal strength by doubling the height of your antenna above the ground. For example if you are on the ground floor you will receive only $\frac{1}{k}$ the signal that you would on the fourth floor forty feet up. Also because buildings contain alot of reflective material, (conduit, house wiring, steel girders, joist brackets, vents, foil-backed insulation, aluminum siding, etc.) it is a rough estimate that the signal inside the house will be half that of outdoors. If you had 2 like antennas then, one indoors on the ground floor and the other outdoors on a 40 ft. tower, the indoor unit would receive only 1/8 the signal of the other - an eighteen db difference. This should be enough to convince you of the odds that you're up against Dx'ing with an indoor unit. However, budgets and landlords being what they are, there is definately room for serious discussion of indoor antennas in a Dx'ing newsletter. Also worthy of consideration is the social acceptability factor. Of course a person COULD put a 3 ft. tripod in his living room with a chunk of mast supporting a quad-stack of fm yagis but since this quickly reaches a divorce court scenario it will not be further discussed. Attic installations are handy things to keep in the back of your mind however and a couple types will be mentioned.

Differences between fm reception and tv reception should also be noted before specific discussion. FM is transmitted 3 ways; vertically, horizontally, and circularly polarized. Until recently, there has been no commercially available indoor fm antennas which operate in a true circular mode. Also, because of various and sundry reasons, the vertical signal is typically the poorer choice for indoor reception. Therefore most storebought antennas for indoor fm use are horizontal types. Almost any indoor antenna that can be made or bought can do one thing well but never have I seen one that does all things for all people. Keep that in mind as we discuss the following antennas. I will try to present both the weak and strong points of each type mentioned.

A dipole is an antenna formed by a b-wavelength element cut in th middle to hook up to the transmission line. Probably more dipoles are in use for fm than any other antenna. The simplist form is that of a "T" made from twin-lead or zip-cord and comes packed at no extra charge with many tuners. The dipole is the antenna against which all other antenmas are usually judged. Therefore we usually say that a dipole has zero gain since it itself is the reference. A fixed length dipole covering a wide frequency band will be at its' maximum performance at only one frequency however. At all other frequencies the performance will be abit lower than would a dipole cut for that frequency. There is a slight advantage in this regard using a pair of rabbit ears as our antenna. The telescoping elements can be adjusted to the best length for the frequency we're working with. The theoretical length difference for each 1/4 wave half of the dipole is $33\frac{1}{2}$ " at 88mhz to $27\frac{1}{4}$ " at 108mhz. The advantages of the el-cheapo "T" is that it can be placed up high on the wall, is cheap(\$) and is easy to orient in a true horizontal plane. Its' disadvantage is that it is hard to orient to a different direction which is important since it has almost no pickup in the directions off its' ends and has its' best pickup directly broadside to the element. If your using a "T" to dx with, you might try placing a couple of them on perpendicular walls and use whatever one suits your need at the moment. The big advantage of rabbit ears are that they can be easily rotated to any direction. A problem though is that if the elements are truly horizontal, you may have a dangerous situation with two 3 foot eye pokers sticking out into your room. If you can't have the element truly horizontal but must "V" it up abit, you usually will do better by making the elements a little longer, 10% or so. An antenna that remains in the horizontal plane that is quite short is the Winegard FM4400. This dipole is made electrically longer by the addittion of capacitance plates at each end of the element. These are similar to the "catwhiskers" on the Crossfire antennas from Channel Master. Also, if anybody remembers Channel Master's "Showman" rabbit ears, it was the same sort of deal. This allows a rather short, hand rotatable antenna to be tuned to the fm band. Because of the loss of antenna length for the radio waves to bump into however, the gain drops to below that of a pair of rabbit ears even if they can't be truly horizontal. A very successful short antenna

Indoor fm antennas (cont.)

was the BIC Beam Box. Although no longer being made, this unit had several unique features not the least of which was that it was completely encased in a hi-fi component looking case. On the front were 3 controls; one for tuning the antenna to frequencies from 88 to 108mhz, one to choose which direction you wanted the antenna to point, and another to choose wide or narrow bandpass filtering. Although its' gain was about 5db below a dipole of full length, the Beam Box did a good job due to its' tuning ability and how well it got rid of unwanted signal both multipath and out of channel. These antennas are still quite available on the used market. BIC also marketed a small amplifier to boost signal. It was of little use to a good tuner but is still being sold as Channel Master 030C. Two other examples of glorified dipoles are the DX Silver Ribbon and the Technics "Wing".

The Active Antenna There is a way to make an antenna very short and that is to place transistors right in the elements. The transistors alter the current and voltage on the element in such a way that the element appears electrically much longer. The obvious advantage is that you can now have a very small antenna that looks socially respectable. The disadvantage is that the idea doesn't work well at fm frequencies (never mind that - the public will buy it on pure sex appeal). In the February 1968 issue of Radio-Electronics magazine there is a construction project on making one of these little scoundrels. If it had a slick plastic case around it, it would look darn close to the new Radio Shack "Mushroom". The performance graph accompanying the article shows performance falling somewhere between a rock and a tire. Talking of tires, there's an old drag racing expression "There's no substitute for cubic inches", maybe we could say "There's no substitute for elemental inches".

The Dennesen Polaris A couple of years ago Richard Kaufman designed an antenna for Dennesen that is a real killer. It is composed of two ½-wave elements spaced about 15" apart on a stick of wood. There is an F-fitting on each element to allow coax hook-up to either one. The element which is furthest from the station is used for the signal while the other element acts as a director. This antenna is non-obtrusive and works extremely well with a gain of 5½db, quite a narrow pick-up pattern, and deep side nulls.

The Max-Tenna Although I like the Dennesen quite abit, the Max-Tenna (P.O. Box 3101, Quincy IL 62305) has alot going for it. This antenna looks like an X when viewed from the side with each leg of the "X" being an adjustable t-wavelength. In the hub that connects the elements is a phasing device which connects the elements so that they work in true circular polarization. The advantage of using circular polarization is that when the signal leaves the transmitter, it spins in a clockwise rotation. When it tounces off something and becomes multipath interference, it changes rotation to counter-clockwise which the antenna discriminates against to the tune of 14db. This also means that signals coming from the rear of the antenna will be in the wrong rotation providing a 14db front to back ratio. The gain of the Max-Tenna is rated @ 3db. John Sulak, club member from Altmonte Springs, FL, says that this is the best indoor dx antenna he has ever used and claims that he can null out almost any semi-local station he wants to with it. I greatly appreciate John giving me this information to pass along. Cost is approx. \$37. I would say that this antenna might be easier to use than the Dennesen but a bit more obtrusive.

ANTENNAS YOU CAN MAKE BUT CAN'T BUY (now for the fun stuff)

The Slot Loaded \(\frac{1}{4}\)-wave (especially for mobile homes) If you live in a mobile home park where no outdoor antennas are allowed, you know how tough dx'ing can be, what with all that beautiful aluminum siding on your home on wheels. There is hope however and for under a \$5 bill! Strip approx. 31" of insulation off the end of a chunk of coax. Next, pull all the shield back so that just the insulated center conductor can be taped up in the middle of the window. Attach the shield to a screw in the metal window casing. You've got it already! The antenna will pick up in the direction broadside to the window the best. Try different polarities and windows for best results. Don't forget to hook the other end up to your receiver. Note: The shield going to the window casing can be cut down with no harm.

The Horn Horns for vhf use are not very popular due to the fact that they are large and hard to mass produce and make money on. They are however quite an interesting and well performing antenna. Simply put, they are large versions of the bowtie antenna common in uhf use except that they are v'eed in to 60 degrees and can be made from screen. Because of their size (4ft. square and up) they are not well suited for tower installation but are well suited for attic use. With a little compromising in performance and some work on eye-appeal they could be built into the corner of a room. If you are interested in this easy to build, inexpensive, very directional, and high gain antenna that will work well for fm and extremely well for the vhf high band, the best advice I can give you is to pick up the December 1963 issue of Electronics World from your local library and read the excellant article on horns contained therein. I'm sure you will

The Rhombic Richard Kaufman, designer of the Dennesen Polaris has done quite abit of research on the rhombic antenna for indoor use. The rhombic is essentially a rectangle made from twin-lead and fitted up at the wall to ceiling corner of a room. Of course there are some little things that need to be paid attention to but the dx'er will be interested to know that gains in the 6db range are very feasible with high directivity to boot. If you think you would like more information on the only indoor antenna I know of that will outperform the horn, the January 1982 issue of Audio magazine is the place to look. This antenna is hard to reaim but is a real killer in one direction. It too is a superb performer in the vhf high band.

Worldwide TV-FM DX Association

INFORMATION ON COMMODORE
COMPATIBLE UIDEO IMAGER
SENT IN BY TOM YINGLING
SENT IN BY TOM YINGLING
SEL CORNER EDITOR

VDEO MAGES ON YOUR COMMODORE
Finish - an enginnee way to againer end words major to you Commodore the interest of the company of t

Antenna News

find it most enlightening.

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LOGOS FROM DANNY BUNTIN SOUTHERN FM-DX EDITOR

DONALD L. BLEVINS 1657 ESSEXTOWNE CIRCLE BALTIMORE, MD 21221-2644

This months feature will focus in on EM5 in Montgomery County, Pennsylvania in the suburban Philadelphia area. All these entries operate on 45.04 mhz. The three number designtion is the station number. The top line is the station name and the second line is the location of the municipality. Many of these locations also use UHF EM5 frequencies for comunications with area hositals. A great deal of activity can be heard on this frequency. You will also note that only EM5 traffic should be noted on this frequency. Many areas integrate various activities

that are related to emergency communications. In this case however, EMS and Fire Radio are segragated. In Baltimore County for example, EMS and

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302	ACS PLYMOUTH TOWNSHIP
303	CIVIL DEFENCE LOWER PROVIDENCE TOWNSHIP
304	MONTGOMERY HOSPITAL NORRISTOWN BORD
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308	PLYMOUTH COMMUNITY PLYMOUTH TOWNSHIP
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324 TRAPPE FIRE COMPANY TRAPPE BORO

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329	GOODWILL POTTSTOWN BORO
331	LOWER FREDERICK REGION LOWER FREDERICK TWP
332	GILBERTSVILLE COMMUNITY DOUGLASS TUP
338	TELFORD DIVING UNIT UPPER SALFORD TUP
339	SOUDERTON SOUDERTON BORO
341	NORTH PENN GOODWILL SOUDERTON TUP
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345	LANSDALE UMSC HATFIELD TOWNSHIP
348	NORTH PENN NORTH WALES BORO
349	MONTGO PARAMEDICS ABINGTON TOWNSHIP
351	AMBLER COMMUNITY AMBLER BORO
352	HORSHAM FIRE COMPANY HORSHAM TOWNSHIP
353	SECOND ALARMERS ASSOCIATION UPPER MORELAND TOUNSHIP
354	HATBORO FIRE COMPANY HATBORO BORO
355	BRYN ATHYN FIRE COMPANY BRYN ATHYN BORO
358	CHELTENHAM POLICE CHELTENHAM TOUNSHIP
359	ABINGTON POLICE ABINGTON TOWNSHIP
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323

EASTERN TV-DX

William J. Draeb Ellis St. R.R.#2 Kewaunee WI 54216

April 1985

Deadline: 1st

John Combs: 2831 Selma, Jacksonville FL 32205 EST

A dismal month. Once again I can fit my entire log on a post card! I still need a decent receiver—that would help tremendously. Then again, maybe conditions have just been lousy? Who knows? (I do; they've been lousy.-wd)

Dec. 1984 + Tr 0753 WCOV-20 AL 305 5 Tr 0925 WRDW-12 GA(SC) 215 17 Tr 0850 WEVU-26 FL 277 Montgomery (Previously tent.; now verif.)

Scott Hood: Dean Jr. College, Box 971, Franklin MA 02038 EDT

Equipment: Sylvania 25" color "dinosaur" (+10 yrs.) with roof top antenna. (Nowheres near a power house: Ch. 27 Worcester is mostly snow), pointed south. Sears 19" color 12 ch. tuffer (set your own stations model) with same roof top antenna (although most of the time the sets were not both hooked up at the same time.) Panasonic 9" color (rabbit ears), located on second floor. Sears AM/FM/TV/PSB (VnF audio only).

May 1984	May 1984	Aug. 1984
14 Es 1930 WCIA-3tIL 825	24 Es 1400 WWAY-3 NC 625	6 Es 1100 WCIA-3 IL 825
15 Es 1930 WCIA-3tIL "	WBTV-3 NC 650	WJMN-3 MI 750
19 Es 1200 WEDU-3 FL 107		1430 WTWO-2 IN 775
1400 WEAR-3 FL 1100	July 1984	1530 KTVO-3 MO 1025
24 Es 0830 WSJK-2 TN 700	12 Es 2355 KGAN-2 IA 950	KDLH-3 MN 975
WRCB-3 TN 825	16 Es 1000 WRBL-3 GA 925	1900 KTCA-2 MN 1000
1000 WEDU-3 FL 1075	26 Es 1230 KYTV-3 MO 1125	2100 KIMT-3 IA "
1300 WSAV-3 GA 825	2355 WMAB-2 MS 1050	7 Es 0900 KT VO-3 MO 1025
	Fall-198	33 Tr?2300 WAVY-10tVA 450

Like the FM counterpart, this is my "World Premiere" report containing my lifelong loggings, and, like the FM column, snows my recent enlightening to the world of TV-DXing.

One logging that perhaps Roy from Teaticket can cinfirm: Was that skip from the fall '83 from Virginia? All the other VHF stations, as I remember, were clear, although I know it wasn't WCBB from Augusta ME, as that is an educcational channel, and I heard the video was to overcome a baseball game, whereas I recall a movie being on "locally" (Providence). Also, was that auroral (see FM column for other reasons behind the Virginia deducement)? Finally, could any of these E-skips be MS?

Until next month, when I plan on sending a list of all the stations (local and tropo) I have received here in Franklin (which has only been since September), do as Roy says, and send in normal propagation lists, as I found the propagation here different from what expected.

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		12 m~	01.00	Kitchener	20 TF	0740	VL A9-15 WO
aust 1	.984	17 11	0700	Ann Anhon		0200	MMIG-27 MU
	37 KMTV-3 NE		0223	CEMT LT ON		1220	KMTC-27 MO WRTY-6 IN WHAS-11 KY(IN) WEHT-25 IN WDRB-41 MI
	Omaha		U223	Toronto		T550	WILES-IT VI(IN)
Tr 17	30 <u>WKON-52 KY</u>		2200	TOTOIT MO		1320	WERT-27 IN
	Owenton		2300	MLWI-TA LW		1427	MDUD-AT WI

Owenton

Year isn't starting off very good here. As you can see my loggings end

12/20. I haven't receined anything worth writing down since then. To give

an idea how Ex is here in WV I've put together a little year in review.

stations total: 127; VHF 55 UHF 72. Farthest VHF: KTWO-2; UHF: KNNL-30.

It new stations on one day (12/11): 13. First day of Es: 4/6. Most unusual

reption: WOAY-4 on 7/21. They came back on after s/off and it seemed that

teption: WOAY-4 on 7/21. They came back on after s/off and it seemed that

ty were watching a videotape on now to adjust cameras and accidently trans
ted it. It was a little strange watching how to do a "black mask adjustm
tt". This last item i am not too happy about. My tower was hit by lightn
ing three times. I had to have the pre-amp repaired and had to buy a new

meter for the HD-73. I've got it grounded so I don't know what the problem is.

Locally WVAH-23 is now 24 hours Mon-Sat with movies.

Henn Hauser: Box 490756, Fort Lauderdale FL 33349

Having just erected the same Finco P7 seven foot UHF dish which served me so
well in Von Ormy TX more than a decade ago, I'm finally getting active with TV

Ming again. Longtime WTFDA members may recall that I was extremely active
then, including lots of trans-Gulf tropo from Florida. Now at the other end
of the path (actually Tamarac), I hope to be watching Texas UHF stations this
pring. It won't be quite as easy here with several high power locals instead
one, producing lots of hash and mixing products, but fortunately only one
them is 24 hours, WHFT-45. I've been here since September, and was occasmally tantalized by tropo from central and northern Florida on internal anmas. Now with the dish, just clearing the one story roof, rotor, and BTmas. Now with the 256 is a power supply which I assume you use for a CMA-Ub or

Hauser: continued---CMA-Uc, #1264-wd) Ft. Myers U's are constant, and it doesn't take much tropo enhancement to bring in Tampa/St. Pete/Orlando/Melbourne. I've drawn up a list of probable targets all along the Gulf coast states, but it would be especially helpful to know which ones are on the air after 2 a.m. (la.m. central time) or sign on unusually early. I'd really like to trade TV Guides from this area, especially Corpus Christi, San Antonio, Houston, Louisiana, for the southern Florida edition, which lists Miami/Ft. Lauderdale/W. Palm Beach/Ft. Pierce. Comprehensive weekly newpaper television listing O.K. too. For those of you who may have lost track of me because of my inactivity in TV-DXing, let me explain; I spent about eight years in Knoxville TN: I did have the UHF dish up most of that time, but rarely saw what I would call DX, probably due to a valley location. Pittsburgh, West Virginia, Alabama, Memphis, Evansville were the limit. Es wasn't that great either, the Maritimes, Quebec, Texas, Oklahoma and Cuba were fairly common. In my new situation I'll try to get back into the habit of reporting again, but it would be hard to find the time to compile the multi-page reports of the past, even if I get that much DX again. I hope to be hearing from some of you with Gulf coast TV Guides to trade, as

soon as possible.

soon as possible.				
Jeff Wolf: 1131 University Blvd. W., Apt. 701, Silver Spring MD 20902 EDT-EST Sept. 1984 Sept. 1984				
Sept. 1984 Sept. 1984	Ret. 1984			
Burlington 0710 WUND-2 NC 21	9 0716 WWBT-12 VA 0733 WICZ-+0 NY t 0750 WITF-33 PA			
1100-1130 NC chs. WRDG-16 NC	0733 WICZ-40 NY t			
19.22.25 WIYH-15 PA	0750 WITE-33 PA			
8 Tr 1200 unid: 19 WUNK-25 NC 24	WLVT-39 PA t			
2030 WFAT-19 PA 138 1710 WCTI-12 NC	0830 WENY-36 NY t			
Johnstown 2130 WRBV-65 NJ	0750 WITF-33 PA 4 WLVT-39 PA t 0830 WENY-36 NY t 1150 WNEP-16 PA			
### 1100 write-16 NC 251 22 Tr 0100 write-16 NC 21	Es 1800 WDIQ-2 AL			
2145 WVAH-23 WV 264 WLIW-21 NY 21	8 unideds 2-4			
214) WVAH-23 WV 264 WLIW-21 NY 21 Charleston WUND-2 NC (zero to WCVE) WHRO-15; loca	15 Tr 2200 WNJS-23 NJ			
(zero to WCVE) WHRO-15; loca	1 2359 NJ 40, 65.			
2300 WKAS-25 KY t quality	20 Tr 0700 WHMC-23 SC 373			
(zero to WHAG) 23 Tr 0130 WPDE-15 SC	WJPM-33 SC 358			
unid: 33 0143 WNEP-16 PA 16	O to WLYH-15 PA			
2305 WSBN-47 VA t WBTW-13 SC 34	Q MDDC 16 NC			
2315 WPCB-40 PA 173 0200 WCTI-12 NC	Durham 11, 22, 28			
WPXI-11 PA t WTVD-11 NC 24	Durham 11, 22, 28 6 0715 WKFT-+0 NC			
2330 WVAH-23 faded 0230 WPIX-11 NY 19	6 Es 0715 Cuba-2; t			
9 Tr 0020 WPTT-22 PA t WNCT-9 NC 24	3 Tr 0900 WPDE-15 SC			
0030 WKBN-27 OH 238 WITN-7 NC t	WGSE-43 SC 366			
0900 WUNE-17 NC 335 0800 WXII-12 NC	Es 1505 Unideds 2-4			
9 Tr 0020 WPXI-11 PA t	1600 KJRH-2 OK			
WVAH-23. WV 0830 W59AA NY	27 Tr 0700 WHYY-12 DE			
12 Tr 1930 WCLQ-61 OH t 1047 WRLK-35 SC t	WFMY-2 NC t			
unid; 53 1110 WRDG-16 NC 25	WRBV-65 NJ			
WUAC-by OH t WUBD-2 SU t	0900 Durham 11, 28			
ZIOU WINU-24 OH 377	MPCQ-36 NC 332			
UNIQ-2; Zero/whito weba-14 SC 4/	WRDG-16 NC			
More-20 ou 3/0 TITO MOMO-TO 20 40	o wcti-12 nc			
SOU PULL TO UN SOU UST 188F	WKFT-40 NC			
WORK_16 DA 186 7 Tr 0715 LDDC_16 NC	W35AB PA			
2258 WIHO_LI MI LOO WDTE_28 NO	0910 WSET-13 VA			
2317 WIRT_12 MT + 0807 WDC0_36 NC 232	1030 Greensboro 48,61			
2330 WVAH-23 faded 9 Tr 0020 WPTT-22 PA t 0030 WkHN-27 OH 238 0900 WUNE-17 NC 335 0800 WXII-12 NC WKPT-19 TN t 0830 W59AA NY 12 Tr 1930 WCLQ-61 OH t 1014; 53 1110 WRDG-16 NC 25 WOAC-67 OH t 2100 WDH0-24 OH 377 Unid-2; zero/WDH0 WGTE-30 OH 378 Unid-17 2200 WUAB-43 OH 293 Oct. 1984 WQEX-16 PA 186 7 Tr 0715 WRDG-16 NC 2258 WUHQ-41 MI 499 2317 WJRT-12 MI t 0807 WPCQ-36 NC 332 WAKR-23 OH 278 2008 WFTF-28 NC 2008 WFTF-28 NC 2008 WAKR-23 OH 278 2008 WFTF-28 NC 2008 WAKR-23 OH 278 2008 WFTF-28 NC	1500 MLAD-11 NC			
20khz/WAKR from 20khz cci to S	2100 NJ chs.23, 65			
WOPC. WLXI-61 NC t	• WNET-13 NÝ t			
2330 W47AB OH t 10 Tr 2215 NJ chs.23, 40	Nov. 1984 9 Tr 1900 WNJS-23 27 Tr 0650 WJKA-26t			
- 13 Mm 0000 UNTR OF OU 002 1), Mm 0215 UDMT 10 NA +	E, 11 00,0 NOILL 200			
0001 WIJC-26 OH t WPRI-12 RI t	Dec. 1984 9 Tr 1930 WTLL-63			
sign off WRTW-13 SC t	Richmond			
0115 W44AA WV 0200 Unid-9	10 Tr 2015 WCTI-12			
xlting WDHO-24 WCTI-12 NC	Jan. 1985 24 Es Unid-2			
0250 WXII-12 NC 263 0700 Scranton 16.23	2			
O001 WIJC-26 OH t WPRI-12 NC t writer 12 NC t sign off O115 WH+AA WV O200 Unid-9 xlting WDH0-24 O250 WXII-12 NC 263 O700 Scranton 16,22 WHT-31 MI O715 WUNK-25 NC t	Feb. 1985			
22 Tr 0100 WKHN-27 OH 0715 WUNK-25 NC t	17 Tr 0225 WGAL-8 PA			

It looks as though the back of Winter is finally broken. Hopefully tropo activity will be improving after two months' of virtually nothing . I sure hope I'm right; this has been the most boring Winter I can recall DXwise-wd.

ANARG

OPDATE

STEVEN P. SPRACHMAN 39-16 48 Street Sunnyside, N.I. 11104

IT'S SPRING AGAIN!

Well, it is good to see that most of us have survived this winter. It is a winter that will be remembered for the extreme cold in places that have never known cold. Let's hope that with the warming weather will come good DX conditions.

For some, with Spring comes thoughts of love. With me, I have thoughts of houses and DX conventions. When you read this Joyce and I will be preparing to move into our very ewn home. It is something we are very excited about. I am planning to turn one room into a "DX Shack". The room I've chosen is easily accesible to the attic. In fact the closets of the room double as the attic. I figure I can fit several small antennas in the attic for the time being until I decide what belongs on the roof. It will be good to get out of this apartment and into some place were I can do some real Television DX'ing.

This is the time to think about attending a DX convention this summer. This years ANARC Convention will be in Milwaukee Wisconsin. It is being hosted by the National Radio Club. This is one of the finest MW DX clubs in North America. They are planning many fine events on all fascets of DX'ing. This years key note speaker for the annual banquet dinner is Clayton Howard, the former host of the DX Party Line on HCJB in Quito Ecuador. The dates that you need to mark on your calander are July 19 to 21. The hotel where this years event takes place is the Red Carpet Expo. For more information, write to ANARCON '85, P.O. Box 24, Cambridge Wi 53523-0024. Please enclose 2 22cents stamps with your request. Write soon because the closing date is usually May 31st. If you have never been to an ANARC convention, or live in the Mid-West and want to meet over 200 DX'ers, this not an opportunity to be missed.

The number of ethnic programs on televion in New York continues to grow. While Hispanics make up a large percentage of the non-English Speaking and Bi-Lingual population of this great city, many of the earth's other languages are spoken here. There are sections of the city where only Greek, chinese, or Korean is spoken. We've been to stores where no one spoke English. So it is no surprise to turn on the set to find programs in Greek, Japanese, or Hindi.

Several stations specialize in ethnic programming. WXTV-41 Patterson, N.J. devotes its full schedule to programs in Spanish. It is a member of the Spanish International Network (SIN) and shows many programs from Mexico and South America. Movies, Novelas (soap operas) and music shows makes up most of its program day. There are several newscasts a day concentrating on stories from the local area and from the countries of Latin America. Most of these stories never make it to the English Language Stations. The commercials are for products used by the Hispanic community. Many major companies have special commercials produced in the Spanish Language. The rock group Menudo shows up in many of these commercials.

New York's second ethnic station is WNJU-47, Newark-Linden N.J. Most of their programming is in Spanish. The format is much the same as WXTV-41, until the weekend. Saturday mornings have Indian movies and commercials for sari shops. This is followed by programs catering to the Greek and Middle Eastern community. On saturday nights, the language is Japanese. Cartoons and sameri stories with English subtitles. On Sunday, the morning has religious programs in Korean. This is followed by "The Greek Show" and Italian soccer games. Spanish rock videos and more Japanese sameri shows round out their program day.

The number of ethnic programs on the two stations owned by the City of New York is incresing at a rapid rate. WNYC-31, the Municipal station, has a mix of ethnic programs, and PBS programs, and programs on City services. Each weekday morning, a two hour program in Japanese, featuring stories and

news directly from Japan, is presented. On weekends, several news oriented programs such as European Journal and "Hello Jerusalem".are shown. There are no commercials, but there is sports programming- German Soccer games (in English). WNYE-25, run by the New York City Board of Education, has one entry in the ethnic programming race, a two hour program in Korean each week-day night.

One other station in the New York area presents a couple of ethnic pro-

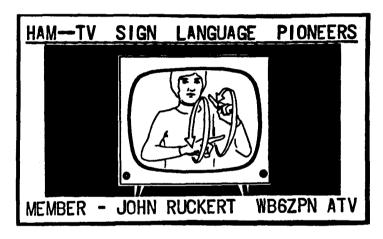
rams in its "Free" schedule. WWHT-68 Newark N.J. (and WSNI-67 Smithtown N.Y. and W60AI New York) has two programs directed to the Yugoslavian population. So the next time you hear a foreign language coming out of your television speaker, don't think you've gotten a triple hop, you probably have a station from New York.

There will be more in future ANARC Updates on the upcoming ANARC Convention, on ethnic television and radio, and the media in other countries. From me and the Mrs.,

73'8

Savers and Joyce

Worldwide TV-FM DX Association



- IF RECENT HAM RADIO RESEARCH AND AVAILABILITY OF PUSHBUTTON SYNTHESIZERS AND TALKING DEVICES HAVE ENABLED THE BLIND TO ENJOY PARTICIPATING IN ALMOST EVERY ASPECT OF 2-WAY COMMUNICATIONS; HAS ANYTHING BEEN DONE FOR THE DEAF WHO PREFER SIGN LANGUAGE?
- IS IT POSSIBLE ALL THAT IS NEEDED IS A MODIFIED COMMERCIAL UHF ANTENNA HOOKED UP TO AN ATV CONVERTER, AND A WAY TO ENABLE TRANSMISSION OF 2-WAY SIGN LANGUAGE THROUGH A LOCAL VIDIO REPEATER?
- BEING LEGAL FOR US WITH A LICENCE TO CONTROL THE EMISSIONS "AUTOPATCH STYLE" THIS COULD BECOME AN UPCOMING MAJOR BREAKTHROUGH FOR THE DEAF, AND FOR HAM RADIO AS A PUBLIC SERVICE.
- THIS IS AN APPEAL TO THOSE OF YOU WHO ARE INTERESTED IN TEAMING UP ON MAKING THIS (OR A SIMILAR CONCEPT) A FULLFILLING AND ECONOMICAL REALITY. JOT US A BRIEF NOTE RIGHT AWAY WITH A LONG SELF-STAMPED ADDRESSED ENVELOPE:
- C/O JOHN RUCKERT, WB6-ZPN, 953 SOUTH BEACON AVENUE, LOS ANGELES, 90015. A REPLY AND/OR A NO-CHARGE NEWSLETTER IS PLANNED WITHIN 90 DAYS!

THREE DAYS IN AUGUST

Just how many different TV stations could a DXer log in a few days from a "super" DX location? At last year's WTFDA convention, we had a chance to find out. The 1984 WTFDA gathering was held in the hills of western New York State, in the Chautauqua region—an area so famous for long—haul VHF/UHF DX that many such gettogethers have been held there since the 1950s.

The "secret" of this location is fairly simple. The mini-mountains of Chautauqua County happen to be close to an optimum height above sea level for observing tropospheric conditions, and they present a "view" into the Great Lakes and Midwest regions that is not obstructed by other mountains, and offer several favorable (although somewhat narrow) paths to the east coast.

The Falconer, NY site is about 300 miles northwest of New York City, 120 miles northeast of Pittsburgh, and about 60 miles south of Buffalo. Located just outside of the city of Jamestown, about the only disadvantage that the area offers is that its elevated location makes it a natural for area VHF and UHF transmitters—but these were not as overwhelming as those found in a large urban area would be.

There were two different systems up, with the use of three towers. On 40 ft. tower, side of hill: 7' Channel Master UHF dish, Winegard PA-4975 UHF preamp; Channel Master Stereo Probe 9 FM antenna. On 30 ft. tower, side of hill: four Winegard CH-2073 highband TV antennas, in a quad stack, with Winegard PA-1375 highband VHF preamp; two Winegard CH-2026 lowband TV antennas, horizontally stacked with Winegard ch 2-6 preamp. On 30 ft. tower, top of hill: 7' CM dish, PA-4975 amp.

We had a DX Tele-Labs EU-4S amp also up with 7' CM dish. This was a failure because of W26AA in Jamestown at 5.6 miles (1000 watt transmitter with a 50+ gain antenna) mixing with WHUG-FM 101.7 (2000 feet away).

What follows is the TV station log of the 1984 WTFDA Convention. This log is a composite of the observations of several different DXers, with Bob Seybold being the most active. The log includes Friday August 3rd to Sunday August 5th. No times are given because there was no large opening as such, and conditions remained constant, so most stations were sighted multiple times on different days. The conditions were slightly enhanced, with the only duct occurring towards Sudbury, Ontario. Given any three-day period with as many DXers looking at TV sets, the log would look much the same.

- Channel 2: WGRZ Buffalo NY
- Channel 3: WSTM Syracuse NY, WKYC Cleveland OH, WPSX Clearfield PA, CKVR Barrie Ont.
- Channel 4: WIVB Buffalo NY
- Channel 5: CBLT Toronto Ont., WEWS Cleveland OH, CICI Sudbury Ont.
- Channel 6: CIII Paris Ont., WJAC Johnstown PA
- Channel 7: WKBW Buffalo NY
- Channel 8: WROC Rochester NY, WJKW Cleveland OH, WGAL Lancaster PA, CKNX Wingham Ont.
- Channel 9: WIXT Syracuse NY, WTOV Steubenville OH, CFTO Toronto Ont.
- Channel 10: WHEC Rochester NY, WTAJ Altoona PA, CFPL London Ont.
- Channel ii: CHCH Hamilton Ont., WPXI Pittsburgh PA
- Channel 12: WICU Erie PA
- Channel 13: WOKR Rochester NY, WQED Pittsburgh PA, CKCO Kitchener Ont.

Channel 14: WCMU Mt. Pleasant MI

Channel 15: WICD Champaign IL, WLYH Lancaster PA, CBLFT- Belleville Ont., WTAP Parkersburg WV

Channel 16: WNPE Watertown NY, WQEX Pittsburgh PA, WNEP Scranton PA, WNDU South Bend IN, WPTD Dayton OH

Channel 17: WNED Buffalo NY, WDLI Canton OH, WPHL Philadelphia PA, WXMI Grand Rapids MI

Channel 18: WHIZ Zanesville OH, WETM Elmira NY, CICO-TV-18 London Ont., WNPI Norwood NY

Channel 19: WCDC Adams MA, WFAT Johnstown PA, WUCM Bay City MI, CICA Toronto Ont.

Channel 20: WXON Detroit MI, WUTR Utica NY, WDCA Washington DC

Channel 21: WXXI Rochester NY, WFMJ Youngstown OH, WHP Harrisburg PA

Channel 22: WPTT Pittsburgh PA, WDAU Scranton PA, CIII Uxbridge Ont.

Channel 23: WKAR Bast Lansing MI, WAKR Akron OH, WOPC Altoona PA, WNJS Camden NJ

Channel 24: WJET Erie PA, WCNY Syracuse NY, WDHO Toledo OH

Channel 25: WVIZ Cleveland OH, CBLFT Toronto Ont., WEYI Saginaw MI

Channel 26: W26AA Jamestown NY, WTJC Springfield OH, WETA Washington DC, WCIU Chicago IL

Channel 27: WKBN Youngstown OH, WHTM Harrisburg PA

Channel 28: WBRE Scranton-Wilkes Barre PA, WFUM Flint MI, CICO- Paris Ont., WTWE Columbus OH

Channel 29: WUTV Buffalo NY, WTAF Philadelphia PA, CIII- Sarnia Ont.

Channel 30: WGTE Toledo OH, CIVO Hull Que., W30AA Corning NY

Channel 31: WUHF Rochester NY, WIHT Ann Arbor MI

Channel 32: CICO- Windsor Ont., WFLD Chicago IL, CBLFT- Kingston Ont.

Channel 33: WYTV Youngstown OH, WITF Hershey PA, WKJG Ft. Wayne IN

Channel 34: WMGC Binghamton NY, WOSU Columbus OH

Channel 35: WSEE Erie PA

Channel 36: WENY Elmira NY, W36AB Oakland MD

Channel 38: WCFC Chicago IL, WSBK Boston MA

Channel 39: WLVT Allentown PA

Channel 40: WICZ Binghamton NY, WPCB Greensburg PA, CHOT Hull Que. CBLFT-9 London Ont.

Channel 41: W41AA Wheeling WV, WUHQ Battle Creek MI

Channel 42: CKCO- Sarnia Ont., WPBO Portsmouth OH

Channel 43: WUAB Lorain OH, WPMT York PA

THREE DAYS IN AUGUST...... A Special Report

Channel 45: WNEO Alliance OH, WBFF Baltimore MD

Channel 46: W46AB Fredonia NY, WSKG Binghamton NY, WHME South Bend IN

Channel 47: WFSL Lansing MI, CFMT Toronto Ont., W47AB Mansfield OH

Channel 48: WCET Cincinnati OH, CBLFT- Chatham Ont.

Channel 49: WEAO Akron OH, WGCB Red Lion PA, WIPE Muncie IN

Channel 50: WKBD Detroit MI, WNDS Derry NH, WNJM Montclair NJ, WCQR Washington DC

Channel 51: WTVE Reading PA, WSFJ Newark OH

Channel 52: WNJT Trenton NJ. WGGN Sandusky OH

Channel 53: WPGH Pittsburgh PA

Channel 54: WQLN Erie PA, WTBY Poughkeepsie NY, WNUV Baltimore MD

Channel 55: WFFT Ft. Wayne IN

Channel 56: W56AD Kennedy NY, W56AE Silver Creek NY, WTVS Detroit MI

Channel 57: CITY Toronto Ont.

Channel 58: W58AA Youngstown OH, WNJB New Brunswick NJ

Channel 59: W59AJ Allentown NY

Channel 60: W60AC Findley Lake NY, WXLT Chicago IL

Channel 61: WCLQ Cleveland OH, CBLFT- Kitchener Ont.

Channel 62: W62AG Towerville NY, WGPR Detroit MI, W62AS Friendship NY, W62AE

Ellington-Cherry Creek NY

Channel 64: W64AF Sherman NY, W64AK Conneaut OH

Channel 65: W65AJ Angelica NY, WRBV Vineland NJ

Channel 66: WTKK Manassas VA, W66AD Canisted-Hornell NY

Channel 67: W67AL East Lake OH, WOAC Canton OH, WMPB Baltimore MD, WSNL Smithtown NY

Channel 68: WWHT Newark NJ

Channel 69: WFM2 Allentown PA

Channel 72: W72AQ Great Valley NY

Channel 76: W76AM Allegany NY

Channel 81: W81AJ Cattaraugus-Little Valley NY

Thus, host Mike Lapinski, who predicted a total of 150 TV stations, beat that at 172 total. Most of these signals were of the troposcatter variety, but all listed here were able to be identified through various means. The most distant signals were those of the Chicago stations, at roughly 440 miles, and were more or less normal for the time of the year in the mornings from these hills.

You can imagine what this area is like during a "big opening!" Perhaps more than 250 FM stations could be heard under the same conditions, given the proper equipment, but the local 101.7 at about 2000' makes this even more of a challenge.

--Mike Lapinski, Bob Seybold, Bill Thompson

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