PUBLISHED EY THE


Tolune 28 －Number 21
Oris Twent
ERNEST R．COOPER，EDITOR
＂MuEINES OF THE MEMEERS＂
 thoOKLYM 80，N．Y．
＂Stop！Do MOM stop sending my DX NEWS！It is invaluable．Such would indeod be a TERRIBIE cataetropho．I enclose $\$ 4$ to avert this calamity．I have been a momber，of the NRC for one year．During same I haven＇t done too much DXing，but of the 300 than tions I＇ve gotten，the DX NEwS has boen directly renponsiblo for about $22 \%$ of them and belpful in mary other cases．So you Bee，I need the Bulletin！
－Wayne A．Nado－ 19 Lincoln Street－No．Weymouth，Mass．


WRITE－UPS FOR IHE BIG DX MORNING OF GEBRUAEY 27 th WIL工 RE FOUND ON PAGE 23．THFIR ARE EIGHT PROGRAMS ON THE AIR THEN FOR THE NATIONAL RADIO CLUB！BE SURE TO FRAD PAGE 13.

ON THR STATION！S STATIONERI
W I C C－ 600 －BRIDGEPORT，CONNECTICUT
（To Art Fregear at the request of Karv Epton）
＂WICC will be more than happy to bow to your request and remain silent on Fsb，13， 196 from 3：30 a，n．to 4：00．EST，in order that the NRC moy more clearly receive CRCL in Tru－ ro，Nova Scotia．In fact，the idea intrigues us so much that we will have one of our engineers stand by to tape the whole hall hiur．And we also intend to notify our lis－ tender audience of your broadcast，with the hopes that anyone not informed will be abl to Iisten also．＂（stgned）．Very Truly Tours，JOHN E．METMS，VF．

This is certainly a wonderful gesture to the Netional Radio club，and it certein ly marite a thank－you card or letter from ach of you activar prose．We certainly ap－ preciate Mr．Motte＇thoughtfulneis and entiasiasm，sóplease，memberw，let us，let him know wo are pleased by his action，and so be sure to sond that thank－you today！
LOOK ELSEWHERE IN DX NEWS FOR ADDITIONAL DX OR TEST TRANSMISSIONS．
＊＊＊＊Coloman Barber, CEA. Nalowanchuk, CE

590 K IqD Leo Higham, PD VOCM W. B. Williams, CE W V L K J. Paul Farnecke, PD

Robert Jones, CE
K GfV Jack J. Link, GM K Xf $\boldsymbol{X}$ K


800 C HfA B Jack Moffat, P, GM
830 W N Y C John De Prospo, ExecOfcr
Ocl W Terry King, CE
C J B C Mrs. Connie Masters, AudRII
W Rfin
920 K FfN F
VI J X J. W. Douglas, GF 950 W F EN (Nurray Arnold, SM J Frank Holyingsworth, CE A (Charles Burtis, CE P
K J R G Fred H. Langford, Jr. CE M
960

970 WRFC W JpA Z William J. Hill III CE
W TqC H
WE LI
990
1050
K CHV
HOO
C FfG P
1060 C FqC N
1070 C B A
1080 TfI C
1090 CHRS
1140 W I TA
1150 WEL
CKOC
1160 K SqL
1230 W N HB
1240 C FIM
W FOY
W GBB
Rolla
1260 K G B X Richard G. Bowman B
W B EK Wayne f. Foster, CE, CNI BF
W TqJ in Ernest Church, CE F
W NfD R Richard L. V'ilier, E H
KPOW J. S. Kilness, $C E \quad M$
WM MM James Mi. Orre, CE P
1270
WD V L
$C F G T$
W PR
1280 W E IM
1290 C FqA
K Hqs I
W G I I Fred A. Porter Ir., CE
1300
E. Godfrey, CE

France Fortin, M
Val Partyka, CE
Theodore Kalin, CE
J
John J. Paules, CE
Boyd Crawford, CE
WA V Z Fred Brill, SuE

FP RfI T Carl Collins, CE


E P P JP

W GpE S William A. Shunk, CE
W R I V John B. Broome, E
PF
W TqT N Sheridan K. Caripbell, CE BK
K Y ND Richard Gilbert, $P \quad B C D$
J. Roberts
W E U P Leroy Garrett, $0 \quad$ GK
$\begin{array}{lll}W K D I & \text { Liyt Logan } & K \\ W \mathrm{KqW} \mathrm{F} & \text { C. R. Low } \theta, \mathrm{Ci} & \mathrm{K}\end{array}$
WH S E Vernon MeCarthy, CE K

The noise level sure high here lately. Guess it is due to the warm WX as it has been more like spring here than winter. Does this sound good to you, Lefty? Hi. Sunday $2 / 5$ got home at 4;30 from playing bridge and logged XEDX- 1010 Ensenada running late with some sort of sporting event or celebration and they ID as "Radio Ensenada." Monday $\alpha / 6$ no luck with DXes besides KGGM-010 which wasn't needed but sent a postcard. No sign of CJME-1300 so wonder if they west on. One of the locals was on Conelrad tests on 1240 and was getting.an image on 1300 part of the time but 1300 was clear otherwise. Likewise TFFDR was not heard on 1370 with frequency clear but quite noisy. No CFCL-620 with CKCK not standing by and they were in like a local. Did log HJTN 1260 Bogota for first time with CFRN apparently off AN for a change but someone on with OC prevented me from taking a log. Also a SS noted AN on 975 in costa Rica. Is this TIES? Sure in strong. Othervise onoy new logging of the morning and only one reported was WIVI-970 Christiamsted, V.I. s/on at $4: 25$ with fairly good signal and beard up until about 4:3.5 for new country for me. Others heard monday $2 / 6$ but not needed: KJRG. 950 Newton, Kans. ET 4:00-5:00. By the way, KIMN has gone off at 3:00 past two Monday instead of usual 5:00 so hope this is regular. KPRL-1240 heard on $f / c-M 3: 45-4: 00$, KDOT-1230 AN, FREN-1250 off AN Monday, KPBM-?40 Carlsbad heard on 640 instead at $3: 32$ with Conelrad, KGAK-1230 ET ID at 5:0\%. Only other new logging of week was KAKA-1250 Wickenburg, Ariz. heard at sunset at $8: 13$ p.in, on $2 / 3$ shortly before s/off at $8: 15 \mathrm{witl}$ good signal. Two veries this weok from KSVN-730 and WYAL-I280. Mr. Joyner at TYAL surely is dirfendly to DXers as evidenced by his dedicating his program each wonday AM to the NRC. He said mine is first report received East of Iowa ani also that he hes been to Denver many times as he was stationed in the fir Force up at Cheyeme and aiso that he got married at Greeley, Colo. in1957. A letter in to day from WMMB-1460 Manning, S.C. saying they can't DX right now for NRC becayse of shortage of nelp but to try them in the surmer. Best of DX to everyone. 73 s ,

## Maurice W. Nittler - 3633 South Clarkson - Englewood, Colorado

DX has been fair the past week vith a few new ones trickling in. $1 / 29$ loged KRAC1270 on with an ET. 1/28 logged XEOQ-1110 Rio Bravo, Tans, on evening RS and s/off at 7:30. 2/1-KBBS-1450 on with $f / \mathrm{c}$ with Kansas City at 2:40-2:50 s/off. 2/2- KUII-980 logged topping KFFW and KMABC at $3: 30$ in ewening s/off. $W H B Q-560$ logged on $A N 2 / 4$ while waiting to try for the YNOL DX. The latter did not make it here though. Did $\log$ the s/on of unneeded WGIV-1600 at 5:00 followed at 5:07 by 8/on of another North Carolinian, VIDU- 1600 for a new one. Logged KGFL-1430 on their r/c this meming, 2/5, for another try for verie from them. Only one verie in this woek and that was WEMM1410 for a very welcome one. Well, it sounds like you guys back East are really onjoying the winter. Has been very nice here thus far with only occasional snow but with some low temperatures. Noral: If you don't like wanter, move to Colorado. (Fore going paid for by Colorado Chamber of Commerce). Looks like a real active DX noming on $2 / 6$ with CJME CFCL CFOX UYAL WFDR all hoped for and KGOM not needed. Good DXing. Let's have some entries for the Contest, fellows, ao that thsy can be published. Not worthwile to publish standings if there aren't many. 73.

## Davia E. Roys - 5121 Radnor Road - Indianapolis 26, Indiana

It's happened! WFBM has stopped playing $R^{\prime} n^{\prime} R$ abdogether and they play music instead now. Joy. Sure would like to see a few other stations do this, as too much of that is aickening. One might get the idea that I don't like R'n'R, hi. I am now the offic ial teahnical correspondent for the NRC, as OKed by Pop, so sent any technical questions to me. If they are of general interest I shall cut a stencil with answers. If you do have questions, think it over first to make sure you can't ansver it yourself. This would save a lot of foolish questions. TA DX is picking up here with 3 iA2-1466; Lille-I-1376 and Nice-I-1554 reported and Lisbon-665 and BBC-1214 heard. IYC-880 is the only new TP, with weak signals on 780 and 600 . Also thought I heard IYZ-800 under CJAD. Glad I got them last season while the frequency was clear. OAX4A-554 finally came back vith letter and pennant. Country \#F6 here. Reports out to Monte Carlo, France, Surinem and Brazil for new countries. Veries at 283. I don't go in for verifying all catches, just my better ones and stuff over $2,000 \mathrm{miles}$. Will gay 73 s and remember, put a pan under your receiver to catch the gris leak
LET'S TETP THE REPORTS COMING IN, BOYS, AS WE LAVE OMLY ABOUT TWO MORE MONTHS OF THE WEEKLY ISSUES. DEADIINE IS FACH TUESDAY. PLEASE REMEIMBE TO DOUBIE SPACE. THANKS!

Page 4
D_X_N_E_T_
February 18, 1961
Fifth report. Sorry I didn't put my name ard adaress on one or possibly two reports with no. neme and postrarked Toronto. I heard 980 CBV. On KAGO DX I only heard XEJP on till 3:30 "Radio Variedades". Poor morning, local static only brought WRXIT-1300 at 4:30, good signal. 28th, PM, HJED-820 Cali came through "FAA for \#3 Colombia. CEVC1600 is on AN Saturday and Sunday ANis with "Night Train." Had a phone call from Mike Silbert today $29 / 1$. It will be mailton in 1962 and if I am still in Southern Ontario then I will be there. I built a third $F F$ section to the two already built. It really brings in the signal but also brings in added noise. If I have put the RF gain up too far I can light up a neon bulb with the RF energy. 30/1- Slept through, at 5:30 a.m. off to $5: 55$ due to technical adjustment. I hope this is regular. Good skip in from New England 30/1. I heard WABI WSAR etc. 2/6- Reception rotten, only heard MOX$1310 \mathrm{f} / \mathrm{c} 1: 15-1: 30$. On the DXes, score 0 . Heard signals that might have been CFCL, CFOX, WFDR and CJME. CKTB leaves carrier on seven days, no KGGM.

Jim Ernst - 163 Coburg Road - Halifax, Mova Scotia
Many thanks to murray mann for birthday card. Doug i'urray and I have vowod to report weekly and now weakly, so here goes. Tonight, $2 / 8$, CX are pretty good, and while delv Ing into French, have been listening to WCSH-970 with the Four Freshmen and the Boes (Sinatra) for an hour. Beautiful signal! "So what?" you sez. I sez CHNS' towers are visible from my window, and they're putting 10 kw . on 900 , Not bad, Philco. DX has been good, so nere goes: Jan. 30-KONE-1300 s/off 2; KTOE-14:20 5-9 2:10-2:40 with an ET from WVOT beneath them. Somebody on 660 with test at $3: 15$ and tentative to TMEO as somebody said they'd be testing for something; WRAW-1340 DX at 3:42 and 3:59 under WIRY. Jan. 31-CSB2-1034, 4:50-4:58 p.m. and report (WBZ took over); CSA3-755 6:207:08 $\mathrm{s} / \mathrm{off}$ : Feb. 1- Really a surprise wheh I heard KGHL-790 Billings, liont, on r/c 2:08-2:18 (mulled out WEAN a bit and by bringing up volume fully was able to get two IDs) ; CHEC-1090, 2:53-3:20; KABL-960 3:25-3:40. Feb. 3- CJGX-940 for a real surprise with hillwillien masic 2:28-2:53 on AN; CKDM-730 2:58-3:30. Feb. 6- KADI-1270 ET 1:18 1:36; WQIC-1390 r/c at 2:25; HJAO-1260 AN 2:33-3. Tried for CJME-dx but West was poor and I mean crumm, and instead heard a portuguese speaker 3:18-3:23, and judging by direction of loop and way the South was, I sent a tape to ZYR-7. WQIK-1280 s/on 4 for a short $\log$, and then WYAL-1280 took over with no ign of usually dominant CJiS. Then in the PM , acting on a much appreciated tip from Doug Murray, got good logs and tapes on PRE-9-1200 7:01-8:02 p.m. and PRG-2-1040 8:12-9415, both reported, hi. New country. Couldn't even get WMGMi at S-2, but Southem skip was tremendous. CX have been queer, but good. Veries - hold your breath - KBZZ-1400 sent a positive, bona fide, $100 \%$ QSL for the part of their DX I was able to get. As Hal Williams said, you can at least try for them, no matter how impossible they may seem. After all, even an a cwowded frequency, you don't know what may break through with the right CX. Ask Hank Tyndall - how he ever got KICY with CKVL almost in his badkyard and WHDH beamed up there, I'll never know, but he did. Other veries: FBAZ a card, and KPRO a real nice letter and letterhead from WFOY-1240, plus a form from Radio Luxembourg-1439. Anyone got holdups on "Radio Ghana?" Fella I met at college used towwork for them, so lat me know, hi. 2/5- Lefty, all the snow musta fell on New York as none here. I've found out a good way to get Alaska - Nome for 165, North to Alaska! 73 s.

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\text { Art Fregeau - } 66 \text { Locust Street - Bristol, Connacticut }
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Hi out the re in DX(?)Iand WPEIQV reports the following: VICC will stand by for the CKCL DX on 2/13. Other CPC news: WCMC-1230 will DX $2 / 20$ from $2-3$ with Iawronce Welk music and fraquent IDs. Send reports to CE Carlton S. Owen. Here's a good chance to log a rare 100 watter. Now to recent activities. New job forces me to write tusings on Tuesdays in the evening which will account for so little DX since the last bulletin 1/27 only now logging was at 6:58 when 4 REM was heari on 1480 on RS. How you say? Well, the air wasn't polluted in this area until sometime between 8:30 and 8:00. Yep, WBIS-1440 had trouble and dian't show on their nomal 6:00 s/on, so I celebrated and tuned the band until 7:30. paid off for station \#500. 1/28 brought WYDE-850 at 6 and was reported; WKTY-580 6:58 s/on; WATS-960 7:07 s/on and TPAC-1580 7:15 s/on. I/30, heard only a slight portion of the WRAW-1340 DX but sent report and thanks to $C E$ any way. Looking forward to 2/5 DXes. A fure lineup of seven; hope to get every one of them, hi. By the way WICC will try to have one of their CEs tipe the half hour program from CKCL while WICC remains silent and thoy might also notify thoir audience of the $D X$ so they might tune in also. What a plug for NRC! Might get a fen new members as aresglt of CKCI's DX and WICCis generosity in staying off. It's time to go and watch "Science Fiction Theater" on Ch. 18, so 73 s and good night to all. (Tho sleeps? and some antenna work. The reason that I did not have a report for last week was that I was just too busy. Then on Saturday AM, when I was about to write, I learmed of the 17 inches of snow in New Yoric so that ruled out the possibility of the air mail from reaching Lefty by ionday or Tuesday. Down to the business at hand. On 1/23, Station KOCA-1240 Texas was heard with RS at 3:30. 1/27, KFDF-1580 Arizansas with RS until s/ off at 6:30 p.ir. KDAY-1580 California with s/off at 3:01. 1/29, CMBC-690 Cuba on RS. at $9: 15$ p.t. 1/30, KCSR-1450, Nebraska, $r / c$ at 2:20-2:35 on the 30 th of each third month. WIBG-990, Pennsylvania RS at $3: 17$ a.m. CJAD-300 Quebec on RS at $3: 25$. WJET1400 Pennsylvania RS at 3:50. 2/3, CKWX-1130, British Columbia, RS at 2:55. Finally on 2/6, station KRCT-650, Texas, was heard with s/on under WSM at 7:40 a, i. Verifications received this week and last are: KGIW-1450, KMBC-550, WGCB-1440, KPOW-1260, WNBC -660, VRFC-950 and KJRG-950. On Feb. 3rd, I adjed 100 of \#12 wire to my rhombic, making it now a $280^{\prime}$ parallelogram. The average height is about $20^{\circ}$. Noted a narked increase in readings. As a fact, the locals here are so strong that they overload the receiver even with the AVC at on. Must use the loop exclusively during the daytime. Marv Robbins, Nurray Mann, and I had our names read over KFAB News, and a tape recording was played for 15 seconds about the nevi frassian Sattellite which everyone claimed that they could not hear. We are sure that what we heard was the real thing, due to its hour and 29 minutes interval and 19,995 frequency. 73 s till about March. Elbert Tewell-R.R. 1-Carey, Ohio
It has been so long since there has been a report from this DXer that many of you think that perhaps I don't exist. Well, I still do a little DXing from time to time. Most of it is done in the early evening as I hate to lose any sleep any more. Must be that I am getting older. Since moving out here in the country a couple of years ago and then with building a greenhouse this past year dosstht leave much time for DXing. We have four and a half acres under cultivation here now. We shipped plants into 24 states last year. We are looking forward to shipping into many more this year. Enough about what we have been doing with our time, so now for a small report on our DX. Since last October the following are some of the stations heard here: WIMT-1250, Radio Swan, WTTC-1550, KDWB-530, WBRN-1460, WKTX-1600, WRFB-1580, WCGO-1600, YTRO-1330 CKFH-1430, KIMN-950, KCHR-1350, YNOL-825, WGUS-1380, WMLT-1330, WFTL-1400, KRAE-1600, WDOW-1440, WXIN-1年50, WFLI-1070, VICW-1420, WDLR-1550, WIRV-1550, WYAL-1280, VBOF-1550 TESN-1550, WCTV-1550, WRAY-1360, WGEA-1150, WAAY-1550, KCLN-1390, WEZE-1260, WCAW-680, WNRG-1250, KCTA-1030, WORK-1350, WHEE-1370. Of the above about 75\% have verified. I have also heard others but haven't taien the time to copy tyem and send in a report. I enjoy reading what all the others are nearing and only wish that I had the time to tune in on all of it. Will not get to Convention tais year as will be at our daughter's in Charleston, S.C. then. Will be looking towards going in 162 if it is held in Hamilton, Ontario. I feel that with all the members we have in Canada it would only be fair that we hold it there next. year. We can hold them in the U.S. at any time. I am sure they will show us a good time up there.

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\text { Doug Kurray - P. } . \text { Box } 395 \text { - Dartmouth, Nova Scotia }
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This is my first report since the holidays so I won't waste any time and get right into DX. 1/0 WHLI-1100 4:39 p.m. EST. 1/7- WYNG-1590 4:41 p.m.; \#BMD-750 4:55. 1/8-WCFR-1480 8:00 a.m.; WLIS-1420 7:45 p.m.; CJON (Newfoundland \#3)-930 6:19 a.m.; VOCM (Newfoundland \$4) 7:30-9:30 p.m. 1/9. KFI KNBC KONO KRNG WTAR WRKT-"Rocket Radio." 1/15- WPGC-1580 5:15 p.m. WPEP-1570 s/off 5:44 p.m. 1/16- WIVV-1370 s/on 4:30. 1/18 - KFDA f/c. 1/22- WENA-6:00 a.m. 1/20- CMKM-560 11:30 p.m. To start the month of February heard CSB9 in Miramar, Portugal about S-8 at 7:00 p.m. Lasted for about an hour before fading. Heard Jamaica and Trinidad on $560620700 \mathrm{and} 730 \mathrm{kc} / \mathrm{s}$. With Cricket matches from Austrilia on Jan. 30. Best yet is "Railio Tupi"-lO40 in Sao Paulc Brazil, heard Feb. 5 from 8:00 p.m. until 10:00 EST. At times signal was 5 7-8; also Brazil on 1200 in Fortaleza, Feb. 6- 10:00 p.m. quite weak. WDXI has r/c on third Monday per verie at 4:30 EST. Heard WBCB testing on fourth Nonday at 1:42-regular test? Veries in from KFDA VOCM VIVV WDXI WPAC WSUN CFGT YSPR VITA CJQC WITF USKI. WYAL DX loud and clear here - first since CBI and WINF. Kerember - Connecticat for 163 and bring your whip antennas and we can all verify Australia. 73s for now. LET'S BE SURE WE ALWAYS SEND RETURN POSTAGE TO EVERY STATION TO WHICH WE WRITE FOR A VERIFICATION. ALVAYS REVERBER TOO TO BE COURTEOUS TO EVEFY STATION EVERY TINE.

Reporting the Feb. 6th DXes, only KgGM came through and they were excellent- no sign of the five others. I did catch an announcement from KPBM on $620 \mathrm{kc} / \mathrm{s}$. announcing a Conelrad Test for $640 \mathrm{kc} / \mathrm{s}$. While trying to hear CFCL. $20 \mathrm{kc} / \mathrm{s}$. is a long way off frequency if you ask me. Hope they won't run into any trouble. Come to think of it, the bulletin is sent to the FCC so you better cut off the frequency data from my Mings. Heard WINX-1600 on their AN sked Feb. 4th well enough far a report. KHON was on Feb. 6th with ET at 3:30 a.m. Recent veris KQBY-1550 from a f/up, KOLS-1570 from 8:00 to 8:20 a.m. RS report on Jan. 24th. Very nice letter frog SM who offered a big steak dinner whenever I visit their town. Best wishes. (FCC doesn't receive DX NWIS any longer, Raloigh, and doubt they'i find trouble in being off their Conelrad frequency as they are cooperating in having it in the first place and at their own expense -ed.) Bryan Filson - 220 Fifth Avenue - New Westminstsr, British Columbia I guess it's about time I got another report in, so here it is. New Stations: Jan. 7-KALE-960 at 7:30 a.m. Jan. 8- WLOL-1330 at 5:30 a.m. Feb. 1- KSAY-1010 at 8:00 p.m. Feb. 3- KYY - 1100 at 1:30 a.m. As you have seen, I haven't been doing much DXing because of school. I've noticed that CX are better on these warm and wet days than on the cold ones, contrary to most belizfs. Temperatures right now are hovering in the 40s and Itve been hearing a lot of EST stations near 1:00 a.f. ( 10 p.m. PST) inese last few nights. This accounts for the now one KYM in Cleveland. Since the last issue, here are the reports I've sent out: KALL-910 KTKN-930 (heard at s/off shortiy after 5:00 a.m.) KEEN-13 70 WCES-880 and WSB-750. Veries in: KID-590 KOB-770 KIDO-330, WWL870 KGW-620 CJCA- $930 \mathrm{KFXD}-580$, KSL-1160 WCCO-830 (I guess that description of the announcer's car did it!) and KXLF-1370. Just yesterday Part II of "Broadcasting Stations of the World" by frequency came in the mail from Washington. I'm going to get a lot of use out of it. I also ordered the Vane A. Jones Log from Indianapolis on the came day and it hesn't gotten here yet. 73s.

Bob Kalish - 2214 Averue T - Brooklyn 29. New York
DX was good this week, with ten new ones. Due to the snow there was no school on Monday $2 / 6$ and school started two hours late for me the rest of the week. Thus plenty of DX time. On Saturday $2 / 4$ logged the $\mathrm{r} / \mathrm{c}$ of WKPR-1420 in Lalamazoo from 1:30-1:45 with very fine signals over WRBL/WHK. At 6 p.m. logged WLSC-1570 in Loris, S.C. above the slop. Found Monday $2 / 6$ great to South and it was too bad I can't speak Spanish, hi. The best positive one logged was 500 watt TGZ-1170 in Zacapa, Guatemala with excellent signals all AM. Also logged another good one, PRI3-880 in Belo Horizonte, Brazil at 4 s/on. I also logged a $f / c$ of VELZ-1460 in Belzoni, Miss, at 2:15. The CFOX DX was tough with heavy WIBD/XESM QRNi but it did caka it briefly. The DXes from CFCL and WFDR weren 1 heard. I'm sure WFDR didn't come on as 1370 was wide open. If on, CFCL was vlocked by a weak unID SS; not HI3T or XENK. At 5:30 I bagged the s/on of the brand new WMI-1370, in Braddock Heights, Wd. on 1370. They were buried by WFHA s/on at 5:31, however. On 2/7 heard an ID from WOWW-860 at 8:30 a.m. with $0 C$ after. on 2/5 the SSers were in and I bagged OBX4X-895 at 12 a.m. s/off with $4-7$ signals and TIIX725 at 12:10 very weak. On 2/10 the WRIP $f / c-D X$ logged at 4:08 very well - they use a weird telephone buzz for TT and it really tore UTRY to pices. Getting back to ronday, a few mysteries. Who was SS AN on 1090 and 1300p Who is leex on 960 on till 3:00 with U.S. $R^{\prime} n^{\prime} R$ records quite often and very frequent Coke ads? Any help will bd appreciat ed. So far I have sent about 25 CPC letters in the past week or so. Four came back so far. VTAQ-1300 will DX but VACO-1460 won't, due to lack of time. KBOI-950 says they DX avery two years. They have promised me a DX in liarch, 1962. WHYS-13 70 says they will 605 kN . in 90 days and to write then for a test sked. Veries were OK this week. XEK sent a beautiful three-age letter on a very pretty orange and yellow letter head. F. Maldonaldo write in Englis. Aiso recaived nice letters from WTNB WABO-990 (Carl Dyer wants reports), WMOR on nice letterhead, WANN KVOO and Bordeaux-1205. The amount of Ns is really something. Local एBNX is on with Cha-Cha from 10:30-3:30 with only one two mimute spot - I can think of harler ways to go bankrupt, hi. The Turopeans have been fading out in the last week for LAs. Does anybody know if station ijth TT on 1270 at 1:05 on 2/2 was the WOVi test mentioned in DXDD? 73.

Joseph Gallagher - Camp Moods - Newtown Road - Villanova, Penngy Ivania (forwarded by Ray Eige) The v/s at WIL, St. Louis, No., $1430 \mathrm{kc} / \mathrm{s}$. on the BCB is lif. Hart, ESu. I picked up Radio Station WIL on $11 / 17 / 60$. WIL sends a mimeograpia form lotter as a vorific tion. I just received the FIIL v/l on January 27, 1961.

## F'ebruary, 18, 1961

There were only two days of DXing for me since my last report. Loggings since WIVV are the following seven: 1/31: KFSD-600, San Diego, Calif, on RS from 3:45-4:03 with VPDQ QRM. WEZI-1590, Richmona, Va, through VAKR QRM from 4:20-4:34 on AN maration. Radro Jamaica and Redifussion, (ZQI)-780, Kingston 5, Jamaica, on RS frcm 4:55-5:01 for Jamaica \#l and 720 \#2. WAIK-1590, Galesburg; Ill. on RS with WSWW QRM from 5:45-6:00 p.m. WBOK-800, New Orleans, La, was heard briafly through CKIW QRN on RS from 6:03-6:05 a.m. 2/1: WDOW-1440,: Dowagiac, Mich. on FS from 12:12 p.m.-12:32. WKPR-1420, Kalemazoo, Mich, with WIMS QEM from 12:47-1:20 p.m. on RS. Reports were sent to all the above stations plus KLIN-1400, Lincoln, Nebr.; KCKN-1340, Kansas City, Kans., and KIOA-940, Des Noines, Ia; This weekend seemed quite profitable to me as far as DX goes. I logred two new countries (Puerto Rico ani Jamaica). Also I was glad to receive the confirmation from Radio Swan-1160, which was country \#39 confirmed. If WIVV and ZQI confirm, I'Il have 41. Well, that's it for DXing heresuntil the very end of iarch unless I get a chance to log WCBN-650, Ann Arbor, Mich. It was interesting enough this past weekend to hear stations from all over the country telling about the $\$ 110,000$ robbery of the Glen Park branch of the Gary Trust and Savings Bank, I leanred of his capture on a Tennessee station. This is a small world, but still those stations are far enough away that. I'm not able to log them. My DXing totals through Wednesday, Feb. 1 are as follows: Stations heard and/or logged: 1,212; Confirmations: 866 (This represents an $85.52 \%$ return. Reports havenIt been sent to all stations heard.) Counttries logged: 44; contrlies confirmed, 39 ; states confirmed, 42 plus the District of Columbia; Provinces confirmed, six (Saskatchewan, Ontario, Quebed, Manitoba, Alberta, British Columbia); Mexican states confirmed, five, plus Distrito Federal (Coohuila, Chihuahua, Tamaulipas, Nuevo Leon, Baja California) etc. 73 s and thanks to all who cleared up my "mystery". in Geeenville (VESY) and to FHN for infoming me about KRES. That was my 1550. mystery, but KRES was already vonfirmed.

Jeff Stewart - 3018 "qshington Street - Ararillo, Texas
Greetings from the Panhandle of Texas! First of all, I wrote KCRC-1390, Des foines, asking them to stand by for the FEGP DX coming up on 3/27. I got a letter back stating that "IKCBC has spent 12 years builling up a loyal listening aidience. We vould have no right to discontinue this service to them." He also said, "I trust your station in waine can tape their programing and send it to you so that you may be able to hear the program." Guess he missed the whole point of a DX show. Anyway, chances are very slim that KCBC will stand by. DXwise, $2 / 4$ brought KCPX RS at $12: 50$ a.m., KGHL790, Billings, Mont. RS at 1:05. Best catch of mornine was CRX-1150, Erandon, Man. s/ off at $2: 00$. On 2/5, WRFD, Worthington, Ohio, 880 , s/on at 7:00. Only one DX came through on 2/6: KGGM-710. Not an inkling of a signal behind CKCK-620, and not a sign of WFDR on 1370. Anyone know if CFCL or VFDR were even on? WAZL didn't have a chance and WYAL was blocked by KNAK and WQIK-1280, Jacksonville, Fla. which was the only new logging of the morning. WQIK signed on at 4:00. Well, that about does it fron here. Alex Bowab, Dan Phillips, and Jim Ernst, long time, no see. How about hearin: from you?. Best of DX to all. Larry G. says $f / c$ list almost ready. Should be out soon. Roy H. Millar - P.O. Box r78 - Bellevae, Washington
Help! Who ID with call, location and frequency on $1300 \mathrm{kc} / \mathrm{s}$, at $3: 10: 30 \mathrm{a} . \mathrm{m}$, , Feb. 6 during time CJM's DX was sked? Latter not heard here, but someone was ETing on 1300, very weak here. Suspect Illinois station, but far from sure. No other DX to report except to note that KHVH-1040 was AN Sunday Jan. 29 with spacial events broadcast. Sunday Feb. 5 KHVH s/off 6:01 a.m., an hour later than on Sunday Jen. 22 when I also checked them. I haven't completed monitoring of $1370 \mathrm{kc} / \mathrm{s}$. tape of Monday Fab. 6th as of writing this, so'don't know. if WFDR's DX in or now. Also no ted unneeded KIPTM-1310 ET 3:24-3:46 a.m. Feb. 6th while I was loking for CJME-1300.

Burton Brown - W. 2918 Longfellow - Spokane 14, Washington
Hi, This is ry first report. since becoming a member of the NRC. DX here has been pretty good here lately. On Feb. 2 between 1:00 and 1:30 a.m., I noticed the following 50 kwers. all with good signal strength: WSB-750 WMAQ-670 WSW-650 WJR-760 WCCO-83C WHAS-840 TVL-870 WLS- 290 KDKA-1020 WBZ-1030 WHO-1040 WDES-880 and WNBC-660. On Feb. 4 logged two stations, WDXR-1560 in Paducah, Ky. and KNOX-1310, Grand Foriks, N.D. Latest veries in, KORL-650 v/1 and KTFI-1270. Veries out, HJKC XAMO XRX WHANI and WDXR. I guess that will be all for this week. Thanks to Dave Roys for the card, and 73 s and good DX. (Welcome to the NRC, Burton, ani we hope you'll be sending in much more! -ec and -- $1 / 26$ - HRTG-715, RS at 10:26 pom. (what is power, please?). 1/28-WJAM-1310 with ET at 1:58. 1/29- WTRY-980 RS at $2: 56$. $1 / 30$ JBC- 750 with Cricket match 1:40, KBIM-910 2:05 with f/c. 1/31- WCOW-1290 ET at 1:17, MMRS-1570 with test at 1:46. 2/1-KTTN-1600 with test at 1:01, WEON-1230 RS at 2:11, KNBY-1280 f/c at 2:28, WIGI-1490 with $\mathrm{f} / \mathrm{c}$ at $2: 38$. 2/4- WGHN- 1370 with $\mathrm{f} / \mathrm{c}$ at $2: 42$, WJUD-1580 $\mathrm{f} / \mathrm{c}$ at $3: 26$, WEZJ-1440 test at 4:08. 2/5-WZOK-1320 RS at 3:10. 2/6-KPBA-1590 with POP tests at 1:13, WELZ1460 with $f / c$ at 2:02, wGUS-1380 s/on 4:00. 2/7-KPSM-740 f/c at 2:09 and KTOC-920 f/c at 1:18. One puzzle coming up: $2 / 6$ from 3:26 tune-in to $3: 33 \mathrm{~s} /$ off station on fan annduncing as KTBM (?, not listed) and saying conducting Conelrad Tests on $640 \mathrm{kc} / \mathrm{s}$. Any help? (KPBM, Carlsbau, N.M. -ej.) Dian't give location. wiuch bad luck comected with DX programs this year. Only YNOL and KARE heard and neither heeded. The rest either have frequencies covered or don't sem to show. Veries: KMGM YNOL KYND KMML KGGM KWYO CTEM WDAR KRRV KHOW WTOT WMIC KROX WINN WCHS WGEA KWFD WADO WKSK and WROX. Sixty-two new ones so far this season. Don't forget, let's have your thoughts on preparing an info sheet on DXers and veries for sale - and mail - with reports. Snow storms must really be' "troublesome." Wednesday, and no DX NEWS yet. That covers it for now. By the way, what ever happened to Kent Corson? Waterloo's sterling DXer? 73. Ben Dangerfield III - 2C Governor's Drive - Sproul Estates - Chester P.O., Pa. Although CX remain goofit the DX has slowed jown here, with only one outgoing report and none incoming during the last nine days. January was most interesting, so here is some of my activity for the past 30 days. 1/9: Found CKY atop the 580 chanmel at 1:20 a.m., with WAII-140, Baton Rouge, on top of its channel at 1:35. 1/10: Reported XEHK960, Guadalajara (logged from 2:00 to 3:00 a.m.) and received verification in six days 1/14: On day of one of the snow storms noted WEEP-1080, Pittsburgh atop frequency most of day. Seldom hoard here. 1/15: KBLA-1580, Columbia, Mo. testing at 2:45 a.m. and QFMed by a Portuguese station on 1578 , probably CSB-5. At 8:10 p.m. Radio Trinidad was just over CKAC-730. 1/19: Radio Luxembourg-1439 was strong until KFDA-1440 came on for test at 2:10 a.m. Later same day, during a blizzard, at least 15 TAs were $\operatorname{la}^{2}$ heard briefly between 5:30 and 6:15 p.m. Of these so far, EAJ8-1025, Radio san Sebastian, Spain, verified in ten days. 1/23: No less than 12 TAs were heard beticeen 1:00 and 2:00 a.m., along with CX28, Montivideo-1090, which came in from 2:00 to 3:00 a.m. 1/29: WSLB, Ogdensburg, was strong atop 1400 at $4: 30$ p.m. 1/30: Was surpised to pick up Antigua, Leeward Islands, -644, on with West Indies Cricket match from Australia from 1:00 to about 3:00 a.m. (Broadcast also carried by other West Indies stations). 1/31: CBN-340 very strong and over CNHQ for a change in mid-evening. Also good on $2 / 2$ Again on $1 / 31$ a QSL verie arrived from LKF-1578, Fredrikstai, Nowway, and that became verieid country 433. 2/6: KXLF-1370, Butte, very strong at $1: 35 \mathrm{a} . \mathrm{m} . \mathrm{s} / \mathrm{ff}$. WWWW1520, Rio Piedras, P.R. in well most of early AM, and from 2:10 to $2: 20$ a.m., a very weak signal on 780 , but couldn't DD the language. Thus far this season the DX has followed last year's pattern (for me at least) which is: better CX and longer distance after the first of the year, which wraps up my news for this report. Best of DX.

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\text { Nick Haines - } 2259 \text { Lehigh Place - Dayton 39, Ohio }
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Hello to all from a new mamber of the Clui. I started DXing about ten months ago and have logged stations from 32 states, Mexico, Canada and Cuba. I nave logged 198 stations and I have 36 verifications. The reason for this is bocause I only started sending reports out this New Years. I DX with a Heathkit AR-3 and Q Multiplier with a 75 foot antenna. Now to my DX. Veries in from WEUP- 1600 WJAX- 930 WGST-920 TKMF- 1600 WQAM-560 WFBR- 1300 WKDL- 1600 and WTTN-1580. Those are some of my better ones. Also reports out to: $1 / 28$, KDAL-610, WKLM- 930 on $\mathrm{f} / \mathrm{c}$, CEWS-960 on s/off. 2/4-WDEO-580 on AN with a benefit show; WPLO-590. I would like to correspond with anyone, especially in high school. I would also like the names of some good station listings besides Jones'. Does anyone know of a station on 1280 that goes by call letters KMFF in singing plugs for station, plays $R^{\prime} n^{\prime} R$ and gives the news in Frenchi Help. 73. (Walcome to our Club, Nick, and we'll be hoping you become a regular reportet to yusings. -ed. J. B. "Pat" Reilley - 628 Spring Street-Jamestown, New York

WMIC is the only verie back for a long time 38 I haven't DXed in AM at all as yet. I tried a bit of daytime DXing - WTVN-610 picked up here on 25 th for new report. CHOW1470 on Feb. 8th for third report to them. Daytirce DX isn't any good as too many TV whistles all over the dial, egen on SW end of the bands. Am gettin along (Page 9)

February 18; 1961 D_X_NEM_S Page 9 (Pat Reilley) as well as possible, the doctor says, but hope to do a bit of DXing soon or I'll forget how to tune the National. Guess I'll have to buy an alarm clock as none around here for past 12 years. Hope to see you all at Amarillo if the doctor says OK. (I surely hops so too, Pat- an NRC Convention wouldn't be complete without you!ed) George Greene - 1527 Sunset Avenue - Akron 19, Ohio
Hi all! Hamilton in '62! East/West CX are very poor. I haven't got the New York or several of the Chicago stations for most of the week. Mainly I've been getting Cubans and Mexicans on those frequencies. New stations are: WKJG-1380 2/4, XENA-540 CMKC-770. 2/5-WTTE-1380 CMCX-1060. 2/6- WQAM-560 WROV-1240 and CJNB-1460. Reports out to: WQAM -560 WVOK-690 CFCO-630 and WMEX-1510. All except WQAM are f/ups. Only one verie is back. That is fromblymi-960 for a December 23 report. They use a card wjich has 1,000 watts D 500 N. Now they're 5,000 watts full time. I am sending WVOK- 690 a tape this time that I got off their s/off. I live only about 175 air miles from Fort Wayne, but I never heard WKJG-1380. However the 1959 Broaicasting Yearbook says that CKUKC is on 850. On Fionday AM $2 / 6$ I received WROV and CJNB-1460. They both were very strong. At 5:00 a.m. on $2 / 6$ I heard WQAM ID and then I heard 15 minutes of their prograin, They faded at $5: 15$, but they were very strong before that. I want to thank Hal Jilliams for the postcard, but I don't understand this either: MrIZ-1380 in Lorain, Ohio signs off at 6:00 p.m., one half hour later than in January. In January WLCY-1380 changed pattern at 6:00. But now, they change pattern at $6: 15$, only 15 minutes later instead of half hour as they dia the last two months. Also there was a 15 minute s/off difference between the Akron daytime and WVIZ, but now WCUE-1150 goes off at the same time (6:00.) Why is this? Last night, between 6:00-6:15 WECY anj $\mathrm{K} \mathbb{N}$ were battling it out Then at the $3: 15$ pattern change WLCY and KYK both droppel out and WAOK in Atlanta was in. On 1030 lately, when WNOE changes pattern there's no Fi FCV , but a Cuban, CLCX. Questions: Where can I get a "Hamilton for 's2" stamp? On Mioniay AMi $2 / 6$ I heard a $\mathrm{R}^{\prime} \mathrm{n}^{\prime}$ station on 1220 at 4:55. I wonder what this would be as all U.S. stations on 1220 are daytime except WGAR and they were off. Wain question: Could anyone who ever picked up WBHF-1450 tell me if it is in Cartersville, Ga.? I would be very interested to know. (It is solisted -ed.) I'm on my 30th line so Ild better say 73s. More next week. Ken Murphy - 60 Plymouth Road - Glenbobok, Connecticut
Some fairly good DX being heard lateiy with 17 new additions to my heard low since last report. The ones I like best being KDAL-610 KMGM-730 KPBMi-740 WRIC-540 UFUN (ex-NMBM) 790 and the DX programs from WTIP WYAL CFOX and WSAJ. Verifications since last report arrived from: WKVT-1490 WSSV-1240 YNOL-825 WNYC-830 WMIC-1590 KYYD- 1580 WAUB-1590 KENS 680 and for some reason a second one from WISN-1270. Have also heard the familiar piano music notes heard on HIUA-1270 but this time on 860 which would be HIU according to WRH. The old VFUN-1450 has been changed to WFIX according to Broadcasting. In reference to $P P$ verifications - they are never used here as it is an easy way for a station to get the DXer "off its back." Teey could easily eend tne card back even tnough they were sure tine DXer diin't hear the station! Also I have never used a f/up letter even thoug. I have nothing against them. I much prefer to send a brand new raport when (and if) I hear the station again. The CPC got a real late start but are now doing fins - congratulations!

Philio Jacobs - 6097 MacDonald Avenue - Montreal, Quebec
Greetings. Very little DX here lately, as I have not.been at the dials too much in the past few months. Dec. 12, 160 WPOM-1470 testing at 1:30. Dec. 25- WDAN-1490 sanvillf III. s/off 2:15. 1961, 1/5- WAUB-1590 Aubum, N.Y. s/off 5:02 p.m. Jan. 9- MOMI-1490 s/ff 1:02 a.m., WBNX-1380, 1:35 a.m. on AN with Bob Kalish's favorite DJ. TELI-1410 at 2:05 AN; WITH-1230 AN at 1:55 a.m. KCTX-1510 testing at 2:24, very weak. I was surprised to recsive veries from WHFC-1450 and WSNE-dx-1220 as both were heard in December '58. The signer for PSW is Richard B. Parker, CE. Ararillo '61!

Emie Cooper - 438 East 21 Street - Brooklyn 25, Now York
No veries, and only one new catch; XFAK-690, and a possible hearing of WCOG-1460 ET, but I thought the announcer said WFVG in North Carolina. WCMB-1460 was on testing 2/1: at 2:00-2:30, and WOR-710 and WMGM-1050 were off 1-1:30 for Conelrad teste, with N. Y. and Philadelphia conelrad stations on simultaneously on 640. In case of a real need for Conelrad, folks between Philly and New Yorly would be lost dua to the interference of one group with the other. Rarely heard CFCN-1060 heard at $1: 29$ a.m. with somene behind, perhaps KUPD, but WMGM's return on 1050 at l:50 blanked it. Images contimed all over the dial. WZEN-1600 did not show. I need you, Dave Roys! Help!

My DX loggings by date line: 2/5- WESN-1550 North Augusta, S.C. heard 5:09-5:15 p.m. sloff topping the frequency for a new one here. Both North Augasta stations, WGUS and WESN logged in ten days. FGUS was never heard on 1600. 2/6-The scheduled DXes from KGGM CFCL CFOX WYAL WAZL and WFDR were not very successful here. KGGM did not get by WIP here. CFOX for NNRC/NRC was fairly well heard with XESIM QRM. CFCL was not heard, only "Radio 620" XENK in vexico. WYAL managed to get two poor IIM through WQIK who were reported as signing on at 4:15 but they were strong at 4:01. Not needed WFDR was bypessed to try for WAZL and they were not heard. All needed except WFDR. WIVV-13 70 Island of Vieques, F.R. was a powerhouse at s/on with S 7-9 signal but also not needed. 2/7- WYAL-1280 was logged with a good readable signal topping the frequency 4-4:30 and I heard them salute the NRC, so a good report was sent them. WQIE was not audible and with the loop I was able to mull WVET. Noting in DX NEWS that several members received v/ls from VICY-1380 I took another log 1:30-2:00 and another report sent as they never QSLed my October ' 59 report with a 2/16/60 f/up letter and a card f/up on 7/15/60. Here's hoping, hi. Veries received ars a blue on white QSL card KGBS-1020 (ax-iPPOP) on $2 / 6$. $V / 1$ on plain white paper from WRNB-1490 New Bern, N.C. and the CE wrote "It was with great pleasure that I received your QSL. Having been received at such a distance is one of the highest compliments that I am yet to receive. You must have one ---uva receiver." On $2 / 10 \mathrm{v} / 1$ WKSK-1600 for $8 / 16 / 60 \mathrm{ET}$ and second ET report on 9/19. 2/11, $\mathrm{v} / 1 \mathrm{CFOX}-170$ for NNRC/NRC DX on $2 / 6$ for \#39 from Quebec and $100 \%$ verified for all Quebec reports. The only Canadian holdout is CBY-790 Corner Brook, Nwfla, and I can't understand why they hold out as they are a CBC station. Oh well, with 168 Canad. ian stations reported and 167 verified I can't complain. I only wish that the U.S.A. stations had verified $99.44 \%$ for then I would own 2,386 veries instead of the 2,189 I now have. Since several have written about the plans for ry loop, designed by Harry Fibbard of New Bedford, I have had a few moere copies made. Any who wish may secure one by sending $10 \phi$ in coin or stemps, U.S.A. and Canala only. The WRIP $2 / 10 \mathrm{DX}$ and the 2/13 DX Specials are out as I will be at work. 73.

Ralph M. Johanns - 11 East Chippewa Street - Buffalo 15, New York
V/I WKSKu-1600, Childress Broadcasting Corp. of West Jefferson, N.C. (P.0. Box 311) J. Ardell Sink, GM, by Vemon MicCarthy CE. This is verification of reception of WKSK test program August 15, 1960. V/I WSOQu-1220, Box 20, North Syracuse 12, N.Y. by J. A. McKenzie, GIT (look!) WJMK opened 8/24/59 and changed to WSOQ on $9 / 7 / 60$, no $\mathrm{r} / \mathrm{c}$, Sunday s/on is 7 a.m. in February, with NX at 7:15 a.m. From CFAM-1290, Radio Southern Manitoba, P.O. Box 1000, Winnepeg, a coverage map back of double page has CFAM info etc., also a February program guide showing 24 hours with EST Monday AM 1:10-7:05 a.m. silent period. The new two color v/c with CFAm Info and filled in written by CE. Heard 2/10 on $1440 \mathrm{kc} / \mathrm{s}$. an odd Trer from 3:37-3:05 a. $\mathrm{r} .$, but no call. A Mexican station ran company and went off at $3: 30$ a.m. On 1000 at $3: 55$ came NX by WINX AN to top that painful WWRL ANer. WRIP-dx on $980 \mathrm{kc} / \mathrm{s}$. finally rippod through CFPL/WTRY (not WMAY, Lefty) at 4:14 a.m. "Yeah, good old WRIP for NRC, los t at 4:30 when local WRBR put OE on 970 (bless his winter heart) followed by masic and call at $4: 38$, then TT. PBAL-log s/on 4:55 a.m., while WWRL- 1600 spoiled a s/on $W$ station at $4: 59$ with SSB. On 860 my piano noter mentions at 5:01 a.m. five or six E stations with kilocycles, also Onda Corte stations. He ends with HI3(twes)U, La Emisora de la Capital, La Voz de Varibe. $2 / 7$ - Made more notes on $820 \mathrm{kc} / \mathrm{s}$. (in case someons gets a verie) on HJED "Radio Primere por La Voz del Rio Cauca," then at 6:10-5:27 WFAA test calls andat 6:30 a.fr. WBAP s/on with cowbells, then gives Maditations, Sky, street, and sewer levels. CHIC Brampton $\mathrm{s} / \mathrm{on}$ on $1090 \mathrm{kc} / \mathrm{s}$. and on 1080 WYSL at $7: 15 \mathrm{a} . \mathrm{m}$. If you report WYSL, write to 13 Soutl Cayuga Road, Buffalo 21, Logan 2. Edwards, CE. He's antold CE from KGis-1380 ke/s. Ir yrur Big Yearbook, cross out wAPC-15\% Riverhead, N.Y. as WPAC is it on $1582 \mathrm{kc} / \mathrm{s}$. On page A-205 is a goo NDAY-930 item for a letterhead. (?) Let's nope $2 / 13$ is better than $2 / 6$ for DX. Mike, I had a friend in Hanilton call CHIQ and they said "will answer in due coursen - can you encourage 'em for more speed? Lefty, your WWIRL comes in so strong here, nearly like WKBW by you. The XERFer has nightly a Ewo hour Spanish program, then goes English again (note, EHS.) While XEDM-1580 has of ten a two and a half hour off period but is back RS at 6 a.M. DX NEWS is very informative and let's keep Lefty's dou'blespaced musings full of $v / s$ and kilocycles. Estas son mis meditar y 73.
SEND YOUR $V / S$ MITH YOUR MUSINGS REPORT ON A SEPARATE SHEET OF PAPER WI TH YOUR NAME ON.

Hi ho, I don't care where we go! Nothing spectacular this week other than finally receiving WFYI under WKBW. I suppose that eventually I'll have learned most of the finer points on how to use my new, used SX-99. The crystal control works wonders now but with a few hundred hours at the dials, I should be able to use it more expertly. I've made a new post-New Year's Resolution L. Welk, Perry Como, and Dean Martin shall never cross my speaker wires. Like, enough is enough. Bop-Tronics, February 161 has an article on a-BCB. DX booster, so money in hand I bought the parts. If anything ronderful wuch as an increase of 7 Şunits as promised occurs, I'll tell everyone. If it's a flop, I'll sink back into my shack. ItIs Punxsutawney, Pa. in '62. I don't know where it is but it has a nice name.

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\text { Ray H. Kreul - } 6423 \text { 33 rd Street - Berwyn, Illinoist- }
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V/is thi week are in from KJRG VKSK WJIV and WGRA. I can take a hint, Lefty, I went over veries received last month or so and have sent in list of those I haven't seen in list. I also think (as many members have pointed out) that it is necessary to go through the past six or eight is sues to avoid duplication. Woulin't it be a real boost for the DXer to have a log of $v / s$ ? Within a half year, we could have such a thing by filling one page with new $\mathrm{v} / \mathrm{s}$ each week. That works out to approximately one $\mathrm{v} / \mathrm{e}$ per member every two weeks. DX was disappinting last monday as only KGGI-6lO made it with considerable WSGN, then WIP QRiM. The noise was so bad I finally gave up and went back to bed. Also heard KHJ-580 with "Concerto" át 3:05. New one heard Thesday 2/7: KWRF-860, on $f / \mathrm{c}-\mathrm{TT}$ 1:50-2:00. Saturday AM bagged KUSD-890 on r/c 5:45-6:00 with the Cuban also on. Was delighted to see Delaware DX lined up for 13 th. Tough state here - only three to credit. Should make it easily on 1600 with any break in CX.

Bud Barto - 3 Glenvood Avenue - Naugatuck, Connecticut
New stations are 1/20 WENA-1560 5:40-6:10 a.m.; TICEC-1005, 9:40-9:50 p. In. . 1/27-OAX40-820, 11:30-11:45 p.m.; OBX4X-895, 12:10-12:15 a.m. 1/29- YSKL-765, 9:00-5:15 p. m., HIUE-1310, 4:00-4:10, HJFK-1475, 4:50-4:58; YNQ-1105, 9:20-9:25 p.m.; WION-1430, 6:15-6:30 a.m. 1/30 Radio Cairo and Andorra-818, 5:15-5:26 p.m. 2/1- WFRA-1430 6:00 s/on; WMOR-1530, 6:00-6:15. 1/31- WHBG-1360 6:20-6:50 a.m., WFOS-1330, 6:00-6:15. 2/2- WBAA-920, 5:30-5:40 p.m.; XEXT and XETU-880, 11:55 p.m.-12:01. 2/3- WIOK-1580, tD 6:30 p.m. TDAY-1580 6:25-6:30 p.m., announcing as 50 kw . It's $3: 30 \mathrm{pima}$ in California then! WDQN-1580, 6:25-6:D; WFUR-1570, 6:00-6:05. 2/4-WMTL-1580, 5:03 a.m. TT; KPRO/KODL-1440, 10:00-10:13 p.m.; KTRN/KAML-990, 12:05-12:11 a.m., VNOX-990, $12: 10$ s/ off, CFOS-560 4:45-4:52 a.m., HJDB-980, 10:13-10:25 p.m., LWl-320 8:50-9:10 p.m., YMMR 680, 5:50-6:00 a.m. 2/5- HJAZ/XEDP-1060 8:30-3:50 p.m.; HJCO/HIFD-1160, 9:30-9:41, no sign of CMJK or Swan; HI3S-1150, 9:33-9:45; HJDC-1120, 9:33-9:45. 2/S- WD:F/TIDON/WZEP 1460, 7:00-7:1. a.m.; KHJ/WMGR-930 6:45-5:55 a.m.; WMAY-970, 6:50-7:00 a.m.; WEAD/NBEE 1570 5:00-5:10 p.s.; KAPB-1370 7:00-7:05 a.m., WTAD-930, 5:40-6:55 a.m. Veries in fro: Nice-1554 and Oldenburg-1586. Heard KCFY/WJSO-1590 6:00-6:15 p.m. while NPRY was off from 6:00-6:35! (I'd appreciate double spacing, Bud -ed.)

Ed Satterthwaite Jr. - 69 Homestoad Drive - Doylestown Pennsylvania
Greetings. Recently my DXing has been limited to early Alis, and the following are the results. 2/10- WRIP-dx in with a fine signal despite WTRY from 4:10 to 4:40. nther new loggings were WRNL-910 WBEF-950 CHNS -950 with a good signal at $4: 30$ don, NHBQ-560 with WFIL off, and the HIU piano notes on 960 . Then on $2 / 13$ CX were excellent and the following logged: VP RD-730 and JBC-750 in with sporting event 2:19-3:00; INSC very strong on 630 at 3:00; CKRC-630 and CFAC-960 in between $3: 30$ ard 4:00 for two new provinces; WQXI-790 wi th WAEB off again; WCIN-1480 testing under WRD at 4:09; WJWS-dx from 4:18 to $4: 30$, and finally WGUY-1250 in clear from $4: 30 \mathrm{~s} / 0 \mathrm{n}$ ? to $4: 52$ when WDVA came on for another state. CX seemed to be good to almost everywhere, but WPDQ and W: splakhover were too much for the CKCL DX. Also did WYEN come on? Except for a tester with tones ending about 4:05, 1600 was claar nere with notning neard. Well, the AN situation seems to be looking up hereabouts. WABB has been off the ast two Mondays and WFIL seems to have given up their AN sked. Say, is it unethical to use Musings to ask if any Canadian members want to trade stamps? These IRCs are too damed expensive Finally, a few veris notes, WBOF-1550 said they are going to be doing some work to reduce high angle radiation and the CE doesn't think that they will get out as well when the work is completed, so veify them now. Also, if you live in this area, verIfy WVPO-840 if only to get their card - one of the best so far in my opinion. Guess thatIs it for now. $7 / 3$.

Page 12
By the time this is in print, KFDA-1440 Anarillo, Texas will have put on a DX for the NRC, of which I was informed too late to have it put in the DX Calendar. It went of $f$ on Feb .13 at 5:00 a.m. EST, but I did not hear from them until Feb. 8. Nonetheless, I hope many of you still heard it. Only DX done here was on 2/5- WDBO-580 was AN for MD. Copied logs for a few reports and fell asleep at the dials! (I don't think that trick is original!) Overslept Monday $2 / 6$ - KGGM DX was needed, but not optomistic of having been able to get it die to WSGN. WFDR has been heard several times before but never reported. Sure could have used CFCL, though. Gerry Dexter's idea about info sheets with reports sound like a geeat idea to me! However, I am not experienced or qualified enough to coment on it. Last minute DX; 2/10- The WRIP-980 DX mede it very good here, with $Q E M$ from WONE. Reported although verified last summer. WIAL-1270 Tallahassee, Fla. f/c-M/V 4:45 until WGBA s/on (hi, Jeff) at 5:01. WHKY-1290 Hickory, N.C. s/on 5:01, also WHIO-1290 ditto at same time. AN WRBL- 1420 seemed to be off, as WHK all alone - hope they have quit ANing (doesn't everyone?) one verie, $K M K-1380, f$. T. Deveroux - R.R. 3 - Alberni, Britieh Columbia

Not too much DXing here for the last few days. Got KGGM's DX Special Monday Airi 3:003:30. Even though it was a very poor night for DX I still managed to pull in KGGM fairly well. I had to wait until 3:10 when CJAT-blo, Trail, B.C. s/off. Sent in report to KGGG on Tuesday. Iallso sent report to KULA- 690 Honolulu, Hawaii on the same night. I got either IYZ, Rotorua, New Zealand, or Westerglen, Great Britain; most likely it was New Zealand, on $800 \mathrm{kc} / \mathrm{s}$. Just as I was getting ready to make a report KGO began testing, of all the luck. Best $D X$ to all. Since last report I've sent to: CBX-1010 Edmonton; CBK-540 Regina; WShi-650 Nashville; KOB-770 Albuquerque; TBAP-820 Fort Worth; WHAS-840 Louisville; KMOX-1120, St. Louis; WBZ-1030 Boston; KULA-590 Honolulu; KOPR-550 Butte, Mont.; KSL-1160 Salt Lake City. Also since the last report are the following v/ls: WSM-650 Nashville, and v/cs, CBK-540 Regina; CBX-1010 Edmonton; WSB-750 Atlanta; KOB-770 Albuquerque; KSL-1160, Salt Lake City. 73.

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\text { David E. Roys O } 5121 \text { Radnor Road O Indianapolis 25, Indiana }
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It's fiamily happened! The Jones Log is out! I picked up my copy at his office the day it came out. Adiress for those who want to send for it now is 3749 Vest Keystone, Indianapolis 18, Ind. In it are samples of his sets of maps for TV channels and BCB frequencies. Price is $\$ 1.00$. The electronécs exhibition at the Canadian National Exposition would seem tame when compared to the giant WLW and WLWO, whicn could be seen if you should choose Indianapolis for 162 . I believe that DXers would be interested in seeing radio in operation so WIW and WLWO would be the place to see. They are both about 30 miles North of Cincinnati and a very short drive from "Naptown" as the roads are good all the way and there are no large towns with traffic to contend with. Also the exhibition at the Indiana State Fair would be at least equal to those at Canadian National, and the extras of Naptown, such as the 500 museum and the 500 track pljs the central location make it the ileal place for a Convention. CX haven't been too good lately with not too many new ones. KGGM-dx and I believe CFCL DX, but very reak and static was quite heavy. WRIP was QFMed by WONE. F/cs have been WAMK-1570, WTIG-1290. $2 / 1-K M N S-520$, KNCK-1390. 2/2- KMGM-730 f/c, WEBY-1330. 2/3- KAYL-990, WNUE-950, WREG-1580, WKVI-810, WQIK-1280. 2/4- KAGO-1150, XEFU-630 possibly, CSB-3-780 with hetrodyne on 1439, possibly Luxembourg and BBC-1214. All TAs here have been weak, with tapes off to only three of them - Lille I, Nice I, and 3ivA2. At about 2:00 a.m. I believe I heard LR-4 with pips on the hour but I couldn't make out a positive ID, so will try a tentative. PRH9-840 seems to be almost a nightly visitor fighting it out with the WGT/FBBM spurious response. That's about it for now, so I'll sign off with my theme song, "Let's have more music and a lot less Rock 'n' Roll." 73. IidIANAPOLI; in 162 ! (Received here Monday 2/13, Dave -ed.)

| HPARD SINCE IAST ISSUE - |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 600 | C J OR | Now 10,000 U-3 | NRC | 1570 | W EA D | Formerly WEAS | NRC |
| 610 | CKTB | Now 10,000/5,000 U.3 | FCC | 1260 | C FRN | Now 50,000 U-4 | NRC |
| 680 | CKG B | Now 10,000 U-4 | FCC | 1290 | C FAM | Now 10,000/5,000 U-4 | FCC |
| 790 | WFUN | For\&merly VMBM | NRC | 1340 | C FYK | Now Yellowknife NT | FCC |
| 1140 | C K X L | Now 10,000 U-2 | FCC | 1450 | W F I X | Formerly WFUN | NRC |

Change the new Canadian permit on 1480 to NEN WESTMINSTER, B.C., and $5,000 \mathrm{U}-3$. (FCC)

K SOO - $1140-$ SIOUX FALLS, SOUTH DAKOTA; 3-3:30
"Thank you very much for your recent letter inquiring about the possibility of a special broadcast for the NFC. We are glad to inform you that arrangements are being made so that we can broadcast this program. KSOO is always happy to cooperate in programs of this nature whenever possible. We will appreciate hearing from members of your Cluk who are able to receive uis" writes Mr. Max E. Pierce, TD of KSOO. On a completely clear channel, KSOO's ten kilowatts shoulil penetrate for all of us. ART FREGEAU.

## TID O - 630 - BกISE, IDAHO; 3-3:30

This tip was phoned in by Dave Gleason on $2 / 13$ in order to make this issue. KIDO will be happy to broadcast this special DX. program for the NRC. Mir. John A. Maxson, CE of KIDO, will be hoping for your reports. It is hoped that only CKRC in Vinnipeg will be on this chaninel, but KDWB may also be there. Band music was suggested for the programming to help penatrate the other station/s. They have printed up a apecial QSL card for this DX broaddast; 1-1:30 MST, 3-3:30 EST. Be sure to ture in! DAVE GLEASON

TTAQ - 1300 - La GRANGE, ILLINOIS; 3:30-4
This progrem is expected to turn up on a coast-to-coast clear channel. It will feature largely test tones at $100 \%$ modulation, which should certainly beam their signal into your receiver. After a few minutes of tone, UTAQ will tell us about their station and have interesting comrents on the hobby of DXing, and of course, frequent IDs will be made throughout the half hour. Fejorts go to CEMr. Frank F. Nugent, whom we thank for this DX test. Reports should be sent to him. Good Reception! BOB KALISH

W Y A - 1280 - SOOTLAND NECK, NORTH CAROLINA; 4-4:30
The weekly programs of country and western masic, emceed by Gary W. Joyner, continue for the NRC. Be sure to report receptzon of this so-friendly station! The channel is not clear, but they have gotten out about $2,000 \mathrm{miles}$ so far, so give it a try!

W M MH - 1460 - MARSHALL, NORMH CAROLINA: 4-4:30
WMIE will present a half-hour special DX program for the NRC on what again is envision ed as a coast-to-coast clear channel, 1460. This station has been on the air since $9 / 20 / 56$, but still, few DXers have been able to $\log$ them for they have no early-morning frequency checks or teste, or no early sign-ons. We do not have the data on what kind of programing they are putting on the air, but we know there will be frequent ID and familiar music. Our thanks go then to mr. Dean Shields, GM. IEN KKUSE

> WHNY-1250-MCONB; MISSISSIPPI; 4-4:30

Musicaand frequent IDs will be forth-coming from Station WHNY. They will also deyote some time to a discourse on the station, and the surrounding area. They will be happy to verify all correct reports they receive with return postage enclosed, of course. WREN has been asked to stand by, but no reply has been received from them. WMiP will also be on, but we hope WHNY will be able to push.its way into all your homes. Send your reports to Mrs. Maureen Clark, and our thanks to her for this show. ALIXX EONAB

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\text { WFDR }=1370-\text { MANGESSTER, GEORGIA; 4-4:30 }
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Writes Mr. J. C. Ioftin, Jr., CE of WHDR: "We are sorry we were unable to cooperate on the DX program because of transmitter trouble on $2 / 6 / 61$. We had trouble with our transmitter and werき unable to get on the air until. 6 a.m., our regular sfon time." A now date, theil, has been set - 2/2T, and Bill Jarrell will bo at the mike with J. C. Loftin at the controls. The channel should be coast-to-coast free of interfering stations; so here is that golden opportunity of 10 gzing this rare ore. WIT KRUSE

WRWH - 1350 - CLEVELAND, GECKIA: 4:30-5
Mr. Lamar Camp, Assistant wanager of WRWH says they will be nappy to put on this $D X$ test in cooperation with the NRC. They also have studios in Clarkesville, Ga, and the serve North East Georgia. Their slogan is "The country station that goes to town." There will probabl y be news of WHH and their area, with familier musical momers. The channel will not be clear, alas, what with faty and WADC on, but with their non-directional array they should make it for most of us in all directions. FRAN NITILER

Greetings again! I've been lazy this week, and I set the alarm to DX only one night; Monday Aili, Feb. 6. This seemed to be a great morning for ETs, so tivo nev stations were logged as the result: KPDQ-800 on with music and announcements, logged at 4:55; and KBIG-740, Avalon, Catalina Island, on with masic at 5:25. Both KPDQ and KBIG were S-9. Another new one; KELP-920 El Paso logged after a WX report at 5:03 a.m. with S-7. I should have nabbed a verie, but the station was strong long enough only to be logged. An 01d one; $\mathrm{IN} N \mathrm{EW}-790$, Washington concluded its test with music at 5:00, and CKDNi-730 also concluding its test with music at 5:30. I heard CFRN-1260 on extra loud at 4:30. A few minutes later I found out that this was "The new 50,000 watt sound of CFRN." Local CJOR-600 (Vancouver) has been 10 kw . up from 5 kw . for about a month, $\phi$ which I just found out now. Jerry Davis announced the s/off of our own CKNN-980 so the station could be kept in good working order. This was at 5:08:30 to return at approximately 5:05. This silent period (the only one all week) usually comes an hour later, but the tine for silence will probably be this early hour from now on. Reports out to KSOP-1370 Utah, (heard at s/off at 8:00 p.m.), KPDQ-800 Oragon, and KBIG-740 California. Veries in from WJR-750 Michigan, KGBS-1020 California, KQBY-1550 California, and KEEN-1370 California. Verie total is nov: 68, with the station total at 398. 73 s till later.

We apologize for putting the names of new nembers and renewals back here, but we had a crowded front page this week, and we had to get in what we did on that page, so here are the names and addresses of the new members, etc.

FRANK WILILAMS
MARTIN A. SIEGEL SP5 ROBER T A. RIEDER - RA 18425060 - 7 th Army - NCO Academy - APO 108 - New York, N.Y. ROBERT A. SMITH
EUGENE S. ALIEN
A-Bryan Wilson
B - EV Johnson
C - Ed Sattorthwaite
D - Hal Williams

NEW MEMEERS
5237 Elmwood Avenue 201. Lynwood, California 2251 Knapp street Brooklyn 29, New York 207 North 20 th Street \#17 Omaha 2, Nebraska

MILTON C. BAY

| 促 | E- Ralph Johanns | I - Art Fregeau | M |
| :---: | :---: | :---: | :---: |
| B - Ev Johnson | F - Fran Nittler | J - Doug imurray | N - Lon Kruse |
| C - Ed Satterthwaito | G - Jim Critchett | K - Nick Haines | O-Jim Einst |
| D - Hal Williams | H - John Schoening | L - George Greene | P - Lloyd Knapp |

## PLEASE FOLDON INSTRUCTIONS!

We are still getting some verie signers sent to Ray B. Edge in Buffalo. They do NOT go there - thoy go wi th your Musings report, and on a separate sheet of paper, please, to Ernest R. Cooper, 438 East 21 Street, Brooklyn 26, N.Y. That is the address for both Musings and $v / \mathrm{s}$, but please - a separate sheet of paper for each, with your name on each! It helps if you also double space the $\mathrm{v} / \mathrm{s}$ and keep them in frequency order. PLEASE NOTE CAREFFULLI
We are also still getting an occasional Musings report siggle-spaced. Definitely, fellows, this slowe us down - we give about ten hours a week as it is into typing stencile for DX NENS - natumally, at no salary, and we ask your help in not adjing to the time it takes to type YOUR DX NEWS. Hencef6nth, we reserve the right to omit any such single-spaced report, and also to disregard things sent to the wrong place. Ray Edge puts at least ten hours in each week too, in order to get DX NEWS to you ON TIME, and please don't give him the additional task of forwarding missent items to Brooklyn. As we type your Musings, we put the letter into a pile with the finished items, so if your $\mathrm{v} / \mathrm{s}$ are on that sheet, they could hit the waste backet unrecorded in our column. You may use both sides of the paper on your Musings, but a separate sheet, please, for the $\mathrm{v} / \mathrm{s}$. Please also check them out so we don't repeat them every two or three weeks. Go back about $f i v e$ or six issues to make sure that $\mathrm{v} / \mathrm{s}$ hasn't been included in there. We are not interested in that colum how many veries you have received - but only in providing the $\mathrm{v} / \mathrm{s}$ for the members. However, we ARE interested in your veries in your Musings, so include them, and include the time in EST and the frequency of loggings.

DX DONN THE DIAL ".
Send TIPS to EV. Johnson 504-16th St. Mendota, III. in (E.S.T.:

## FREQ.

580
620
620
740 WNOP
790
790
920 KHN
930 WPAT
930 WKXY
940 CJGX
960 CTWS

970
WZIP
CHEC TDGY CFiSJ WBKO

WRFC
GFAC
KABI Oakland Calif is also A.N. Ernst-N.S.:
" RFMARKS ".
WRKH
Rockwood, Tenn S/on 05:00 Whe Dys. (Ev:
KWFT Wichita Falls, Tex. S/on Wk Dys. 05:00~ ( $6 \mathrm{~F}:$
WATE Knoxville IEnn. S/on Wh Dys- 04:57- (Ev:
WNOF Newport Ky S/on 07:30-S/off 6:15 P.if.- (j Haskett-0: KGHI Billings Font. Fas F/C TT R/C lst IND.2:05-2:20-(Ernst: WFUN Miami Bch. Fla A.N. MON: (Check this M Nittler MBM WGST Atlanta Ga. S/off 01:00- (George Greene-ohio:-

WFLA Tampa Fla. S/off 0g:00-(Greene-0:
WVOP Vidalia Ga, $S / 0 n$ 4:58- Wk Dys. Ev: Cincinatti 0. S/on 07:30-S/off 6:15 P Lethridge AIta.- is A.N. ${ }^{\text {A }}$. rd after KTHS S/off 02:00Winneapolis línn is A.N. SUÑ- EV: (Ernst: St John N.B S/on 05:00- S/off 01:00- Trnst. N.S.E KFSG Los Angeles Calif- R/S is MON-Thru-Thurs-10:45 P.M.till 03:00- No Fri. Sched-SUN-1:30.P.M.- till 03:00-Per Veri (Ev: CJSS Cornwall Ont. S/on 05:00-(Ev: WDAE Tampa Fla S/off 01:00-(Greene-0: KVET Austin TEX S/off at 02:00-(Ernst-N.S. KONE Tulsa Ohla. S/off 02:00- Ernst N.SaKROP Brawley Ualif. S/off 03:00- Rrnst-N.S. KIKO Iiiami Ariz. NOW A.N. Exc. NON- (F.Nittler-Col: Waverly 0. S/on 06:00-S/off 6 P. M. -J. Faskett-0: Hays Kans. had F/C- 2/6-6:30-6:40- (N. NゅttIer-Col: Vancouver B.C. S/off 04:00-(M.Nitt莗er-Col: Franklin Fa. gad F/C- 2/10-01:00-01:15- (S. Rosenbaum-W.Vín Sarasota Fla S/off-00:05-Greene-0.: Buffalo Wyo, had $\mathfrak{F} / \mathrm{C}-2 / 1-2: 40-2: 50-(\mathrm{MoNittler}:$ Fall River lass S/off with Wx- 01:05-. (3.Rosenbaum: Cincinatti 0 S/on 06:00 S/gff 6:15-P.ii.*Fiaskett-0. Lexington Tenn R/C 3ed MON.-4:30- (D.inuray-N.S.: Bradenton Fla. S/off 10;15 Pala- (Greene-0. Uanitou Sprs. Col.-S/OIf SUN- 03:00-M. Nittler-Col: Erinkley Ark.-F/C 4th SAT.-01:00-01:15- (S. Rosenbaum: Fillsboro, 0 S/on 07:30-3/off 6:15 P. in. (Haskett-0: Rayetteville IT.C - S/on 05:07- M.Nittier-Col:

Station WMI- $1370 \mathrm{Kc} / \mathrm{s}$ - Braddock Eeights- Maryland, will DX for XXKy N.R.C.- MON.MAT 6 - From $4: 00-4: 70-A / M$. EST . This is a new Station which took the air Dec. 1960- 500 watt Daytimer, Directional-Ann will be Gene Smith- all reports go to Mr.John T Staub-Mgr-(Arr. LenKruse(Above is Mar 6th. (Kruse)

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\mathrm{F} / \mathrm{C}^{1} \mathrm{~s} \text { per list. }
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Ist HON-KPNG-1150-KRTH-900- 2nd FON- KVCB-I300-KSEN-1150
1st Thurs. KGrI-1430-
1380 WAVZ Zarepath N.J. R/S is NK Days- $+30-$ G.A.M.-6-7-F.M. . Sun. Sched.-6-9 a.m.-11-12:30- P.M.-6-7-P.H.-7-8:30 P.M. (fiaskett-0: 1330 WCRR Corinth, Miss have turned in their license account of losing money save as last 4 owners. Asked FCC to delete call WCRR 1480 WSOR Windsor, Conn Hrd ETing on $2 / 16$ at 0213 (Johanns-Bflo)

