

DEVOTED SOLELY TO

AMATEUR RADIO



 EDITED AND PUBLISHED BY: BILL MCNATT, W 9 N F K, FRANKLIN PARK, ILLINOIS

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- * W0NFM, SOLON, IA., TO W5JTI, JACKSON, MISSISSIPPI, NEW 2-METER DX RECORD!
 - * W1CTW, ARLINGTON, MASS., CONTACTED VE1QY, NOVA SCOTIA, NEW 1 1/2-METER RECORD!
 - * W5JLY, SAN ANTONIO, TEX., ON TWO HEARD BY W4QN, ORLANDO, FLA. 1090 MILES!
 - * W9UED - W5JTI FIRST ILLINOIS TO MISSISSIPPI CONTACT ON TWO. SEE PAGE 14!
 - * W0DSR - W9ZHB FIRST KANSAS TO ILLINOIS CONTACT ON TWO. REPORT ON PAGE 14!
 - * W4HHK - W0HQA FIRST TENNESSEE TO IOWA CONTACT ON TWO. SEE PAGE 22!
 - * W0ZIS - W4HHK FIRST MISSOURI TO TENNESSEE CONTACT ON TWO. PAGE 22!
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TWO METERS, LAST MONTH . . .

On the night of June 16, Clair Brown, W0NFM, Solon, Iowa, contacted W5JTI, Tom Quinn, Jackson, Mississippi, on Two Meters to establish a new DX record of 670 miles (see page 6.). After nearly two years, W0NFM captured the Two Meter DX Record which he almost pinned in September, 1947, when he first worked W2GBK, Sherman, N.Y., 610 miles and, later W2PTW/2, at about 643 miles. (See "The VHF News", October, 1947, p. 1 and 2; November, 1947, p. 1; "OQ", November, 1947, p. 48 - Editor.) Congratulations to W0NFM and W5JTI, the new DX kings! Best wishes to W3GV and W0WGZ, whose record stood for so long.

For a fleeting few minutes, W1IO, Bob Pendleton, Danvers, Mass., had a 260-mile, 1 1/2-meter DX Record in his grasp by contacting VE1QY, Jerry Grant, Yarmouth, N.S. on June 29th. Then, along came Cal Hadlock, W1CTW, about 13 or 14 miles farther away, and copped the 1 1/2 meter record for an estimated 275 miles! See page 3.

W5JLY, San Antonio, Texas, wrapped up another super-DX transmission on 2 when he was heard in Orlando, Fla., by W4QN. Despite a fast move by W4QN to get on Two, no two-way resulted. W4QN tells the story on page 5.

A great flurry of interest in Two has swept over the Six meter gang as a result of substantial evidence of

H A R R Y B. M I L L E R, W 9 A B
 Mishawaka, Indiana.

It is with extreme regret that we report the passing of Harry B. Miller, W9AB, on June 30, 1949. Harry was a faithful v.h.f. operator, working 6 and 2 consistently, and an ex-SCM in the state of Indiana.

Sporadic E single-hop transmissions over the 1000 - 1200 mile range on 2. But, please, fellows, don't accept the Sporadic E Layer as an answer to all of our 2-meter extended range DX. Tropospheric propagation, thanks to nice M^1 gradients and moisture-lapses, still is our friend when E_s disappears. W0MNQ, our propagation analyst, describes recent conditions on page 6.

Collectively, the two-meter gang in western and southern Illinois, Iowa, Missouri, Tennessee and Mississippi is running the show just about the way they see fit. The northeastern Illinois, Wisconsin, Michigan, Ohio, New York, Pennsylvania, West Virginia and Indiana fellows - who ran the show during the past two years - seem to lag, greatly, in activity this year. There are exceptions, of course, such as W9EKL BBU PZS WERLJ W9UCH W8RWV W3RUE KBA BLF HWN LUC EGHW9NW W9EGH W8CYE EP W2GBK and many others, but the burden of activity rests on their shoulders. That's the situation as

(Continued on Page 10.)

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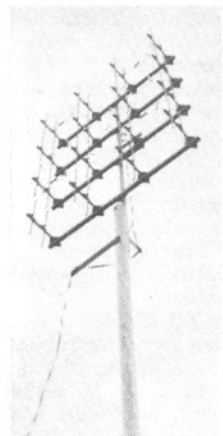
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THE U H F WORLD

By: Jack Woodruff, W9PK

Via the medium of six-meter E_s skip, we have a nice report, via W1CTW, about some outstanding work between VE1QY, Yarmouth, Nova Scotia, on 144 Mc. and W1MNF, W1IO and W1PZA on 220 Mc. The distance is 275 miles, and, if the contacts had been 2-way on 220 Mc., a new record would have been set.

Up to June 24th, W2BAV has contacted 17 different stations on 430 Mc. with his new 32-element beam on vertical. Included are W1HDQ at 60 miles, in Canton, Conn., and, W2HWX, Little Silver, N.J., at 62 miles. W2BAV is using an 8012 oscillator, modulated by a 6L6. He can light his flashlight-lamp-dipole at 110 ft. in front of the big beam, fed by 45 ft. of the new tubular-type 300



32-ELEMENT ARRAY
ON 430 MC., W2BAV

ohm line. (There goes our "no transmission line" argument, hi!) Bill's receiver consists of 3-stages of grounded-grid lighthouse tubes, trough lines, into a 955 trough-line mixer, into a double superhet.

Jim Switzer, W0MNQ, says there has been no 420 Mc. activity between his station and W0DDX, since the beams at both ends are down.

W2NXC joined the "News" gang this month, and tells us he has a 16-element 420 beam above his 2-meter array on top of a 40 ft. tower. An 832 tripler stage, driven by the 144 Mc. 522, operates 420. The receiver? Among several 955 home-built converters is a converted ASB-7A, grounded-grid coaxial r.f. stage, 955 mixer and oscillator to 55 Mc. 1st i.f., to 16 Mc. 2nd i.f.! Let's hear more from you, QM; what's your "Scoreboard" total?

In the Chicago area, W9AYM and W9VX

NEW 220 MC. DX RECORD! W1CTW-VE1QY!

On June 29, at 7:20PM, Cal Hadlock, Arlington, Mass., worked VE1QY, Yarmouth, Nova Scotia, two-way on $1\frac{1}{4}$ -meters for an estimated distance of 2-7-5 miles! Cal was on 222.7 Mc., and VE1QY was on 238 Mc., in the Canadian $1\frac{1}{4}$ -band. Just before Cal hooked VE1QY, W1IO, Danvers, Mass., had him for a record of a few minutes! All equipment was crystal-controlled and superhets. VE1QY was S2; W1IO and CTW were S9 and S7, with fading. CTW used a National HFS to NC-173; VE1QY has a W1PMS converter with additional 6J6 pre-amp stage. Congratulations!

are running Sunday tests on 420 Mc., using APT-5s and corner reflectors. W9KFK, Deerfield, and W9SXR, Bensenville are also active on 420; Patch, W9DRN, also has equipment. Al Witt, W9KLB, was caught by fishing season, vacation time and the general outdoors before he could get back on.

In the Washington, D.C., area, W3RE and W3AIR have a 20-mile "private link" operating on 221 Mc. which is working out very nicely, according to Robbie, W3RE. The fellows have a pair of crystal-controlled converters working nicely, and we hope to describe them, here, soon.

The Electron Club (Chicago) station, W9GLY, has transmitters on all the U.H.F. bands. On 220, a pair of 826s and a 12 element horizontal beam are used. The beam is about 70 feet high. On 420 Mc., a pair of 8025s are used in a parallel-plate oscillator, with an 18-element horizontal beam. This station seems to be the one to watch in this area for u.h.f. leadership. More about it, next month.

The Midwest VHF Club, through its vice-president, W9MMV, has canvassed the clubs in the Chicago Area Radio Club Council about u.h.f. activity. The only answers, so far, are from the Fox River Radio League, which comes forth with our old friends, W9 WJS and W9PQH, who are interested. Let's hear from you, Bob and Jim. That goes for all of you guys, too!

Let's get going fellows!

* * *

SIX METERS IN JUNE

By: Don McCaskell, W9NJT

Sporadic E, F₂ and Aurora! What a month June, 1949, has turned out to be on the Six Meter band! Activity of some nature showed up between 85 and 90% of the 30 days available in June. Space limitations, of course, prevent us from showing listings by calls; we could take up this entire issue of "The VHF News" with 50 Mc. information, alone! (If we had 600 more subscribers and one or two more advertisers, we could double the allocated space for all columns. - Ed.)

Openings reported were as follows:

June 1st - VE5 to W9; W4 to W5; W5 to W3-4-8 and 9. June 2nd: W9 to W5. June 5th: W5 to W4-8; W4 to W1-2-3-8-9-~~0~~-XE. June 8th: W4 to W9-~~0~~-VE3; VE5 to W5-~~0~~; W9 to W4-5-7 and ~~0~~. June 9th: W4 to W1-2-3-5-6-8 and 9; VE5 to W~~0~~; W9 to W4.

June 10th: W9 to W4-6 and ~~0~~; W4 to W1-2-3-4-5-8-9-~~0~~-VE5; W5 to W1-3-4-8-9; VE5 to W4-9 and ~~0~~. June 11th: W4 to W5-~~0~~ and XE; W5 to W5; W5 to W3-4-6-8-9. June 12th: W9 to W4-5-6-7-~~0~~; VE5 to W5-7-~~0~~-VE7; W5 to W7-9-~~0~~-XE. June 13th: W9 to W1-5-7-9-~~0~~; W4 to W1-3-8-9-VE3; VE5 to W5; W5 to W4-7 and W~~0~~. June 14th: W4 to W1-3-8; W5 to XE; W1 to W7-XE. June 15th: W4 to XE; W5 to W3-9. June 16th: W9 to W1-4-7-VE1; VE5 to W~~0~~. June 17th: VE5 to W6-7; W5 to W2-3-4-8-9-VE3; W9 to W4-5. June 18th: W5 to W2-3-4-6. June 19th: W5 to W4-6; XE to W1-2.

June 20th: VE5 to W5-~~0~~. June 21st: W9 to W1-2-4-5-~~0~~; VE5 to W4-8-9-~~0~~; W5 to W1-2-8-9; W7-W1; W1-VE1. June 22nd: W9 to W1-4-5. June 23rd: W7 to W5; W9 to W5; W5 to W4-7-9-XE. June 24th: W9 to W1-2-7-VE1-VE2-VE3; W5 to W3-4-7-VE1; W1 to W4 and VE1QY to XELFU. June 25th: W9 to W1-2-3-4-5-6-7-8-9-~~0~~-VE-1-2-3-4-5-7; W5 to W1-2-3-4-7-8-9-~~0~~-VE1-3, thru June 26th! June 29th: W5 to W9-~~0~~; W9 to W4-5; VE5 to W5-6-~~0~~; W~~0~~ to W7. June 30th: VE5 to W3-8-9; W9 to W5-7-~~0~~-VE5.

THE GREATEST OPENING OF 1949!!

On June 25 and 26, the greatest opening of 1949 occurred, with the band reported open from 0800 CST, 6/25, through 1400 CST, 6/26! Many stations

have reported working all call areas, especially from the middle west during this period, and your columnist worked WACA and 6 VE districts alone. No VE6 has been heard on Six, so far this year. East to West coast F₂ skip was heard in the middle west a great deal of the time, and a number of the fellows in W9-W~~0~~land were coaching stations on both sides in order that QSOs could be made, and frequencies identified. This was a splendid example of cooperation, and also another example of the importance of leaving the first 100 kc. of the band and moving up in frequency. Stations on both coasts reported a writhing mass of heterodynes on the bottom end of the band! June 5th brought an Auroral display of considerable intensity. It lasted for approximately 2 hours from 1630 to 1830 CST. Stations heard in the middle west included W1-2-3-4-8-9-~~0~~ and VE3 call areas.

HERE AND THERE ON SIX

Paul, W4HHK, who has been burning up the boards on two meters, reports he is now on 50.1 and is using 15 watts and a 2-element beam. He claims his contacts on the band are really tops. Let's hear from you often, Paul!

W6PUZ operated portable in Nevada during the 4th of July weekend with the hope of giving more stations that much-needed state.

The June 21st opening made Leroy, W5 AJG, Dallas, very happy by putting him one step from the coveted WAS. Leroy worked WLE10, Maine, for #47! W9HGE, Beloit, Wisc., repeated this performance by snagging W5VX, North Little Rock, Arkansas. These fellows joined the fellows in the "Waiting for #48 Club."

The thanks of the gang go to W5VX and W5FAL for their help in giving many stations a new state, Arkansas. W8EP, W. Virginia, and W4CPZ, BEN and others in So. Carolina are doing splendid work, also. Hope the QSLs held out, fellas!

Ken, W7JRG, Sheridan, Wyo., jumped from #32 to #40 on the east coast double hop; no need to get sooo excited, Ken! Wyoming is well represented by W7LRG, KOP and IAP. They

rarely miss an opening! W3BGT, Pennsylvania, has been rocking the band during most openings with a gallon to a pair of 304TLs.

At the time of this writing, no contacts have been made with VO2EN or CO6WW, but plenty of beams are reported to be stalled in their directions. W4FBJ, Floyd, excited the gang several weeks ago by calling VO2EN, blind. Disregard the rumor of W5VV and W5VY having WAS. Direct contact with both stations verifies #42 for Willmer and #47 for Pat.

W0DDX has moved to Six, and has really been going to town; he has 33 states and 4 VE districts.

W5DFU reports that Field Day found the Tulsa gang at Lake Claremore and rigs for 2 and 6 were set up. The 6 meter job used a Quad. Warren says, "Unfortunately, we didn't have an opening on 6, here! Worked W5LGW on 2 and W5HTZ on 6; location was poor for v.h.f. By being sooped out on Monday after field day, I missed what is reported locally to have been a super-hot opening on the 20th . . . Hooked XELGE on the 23rd and really exclaimed 'The VHF News' to him! A bit later, landed XELA; things were sure good to the south. Wound up the evening with W5GNQ, Shawnee, Okla.

"On June 13, I worked W5JLY, San Antonio, shortly after his crossband 2-6 QSO with W4QN, Orlando, Florida. Earl surely was excited. He runs about 25 watts to an ARC-5 on 2 with a 6 element Workshop vertical beam. The opening on 2 folded before W4QN got fired up on 2. Earl and I were going to try a contact on 2 when 6 folded completely.

"Contacts made during openings on 6 in June were: 6/1, W4MS, 9ZHL, 9VZM, 4GYO, 6/10, W4FQO, GYO, 6PUZ, 6/12, WTIAF, GCS, 0TI, W7JRG, June 13, 0JRQ, 5JLY, 6/23, XELGE, XELA.

"Here's for bigger and better thunderstorms on 6. I think there is more to them than meets the eye, as I have noticed on every 6 opening that there is a storm at one end of the line or the other, and signals hold up only as long as the storm does!"

CU at The Midwest VHF Club Picnic!

W5JLY, SAN ANTONIO, TEXAS,
ON TWO METERS, TO
W4QN, ORLANDO, FLORIDA,
ON SIX METERS.

1,090 MILES. APPROXIMATELY!!!

Another super-DX 2 meter transmission was made on June 13th, between W5JLY, on 2, to W4QN at a distance of about 1090 miles. Although no 2-way contact was made on this, the third reported super-DX transmission, other alert 6 & 2 meter operators are sure to set a super-record, soon. As for "wha hopen?", Harold Klaiss, W4QN, writes: "Had a terrific thrill hearing W5JLY, San Antonio, Texas, at 7:20 PM, EST. We were in contact on 6, and he stated that FM from WDAE, Tampa, Fla., - a bit above 100 Mc. - was rolling in. I took a look for W5JLY on Two and, without any strain at all, I bumped right into him with an R5 S7 signal. (This, at 1090 miles!! - Editor.) I called him on Six to let him know I was hearing him on two and immediately called him on Two, but without success. He was running 30 watts, and had his antenna down to 12 feet because of high winds. The antenna here, at W4QN, is a temporary array of 4 $\frac{3}{8}$ -waves with reflectors and directors, only 15 feet high. The receiver is a converted 522 front-end into a Super-Pro and 12 Mc. Looks quite certain that it was (a result) of E-layer, and feel that it won't be long before someone sets a new record on 2 during this E-layer season.

"Like W4HHK, on his 1200-miles-heard, I was plenty excited and rather imagine I didn't make very intelligent transmissions on 6 or 2. So, it looks like it can happen at mileages other than the Magic '1200'!"

* * *
THE 4TH ANNUAL GROUND-HOG PARTY
SEPTEMBER 5TH, WATERTOWN, WISC.

Don't forget the 4th Annual Ground-Hog Party, Watertown, Wisc., on September 11th. This party is open to Ground-Wave operators and their friends. Bring a fellow ham, the XYL or the YL! A nice program has been arranged, and the food - as usual - will be unexcelled! Further details will appear in the August issue!

PROPAGATION CONDITIONS IN JUNE

By: Jim Switzer, W0MNO

Two DX occasions are considered in this report: the W0NFM contacts with W4HHK and W5JTI, and the one-way hop between W5JTI and W7KOP.

Regarding the report from W0WGGZ about the W0NFM, Solon, Ia., contacts with W4HHK, Collierville, Tenn., and W5JTI, Jackson, Miss., on the evening of June 16th, the path between Iowa and Mississippi had the most favorable conditions for super-refraction that I have observed since following the subject. A high pressure center moved out of the area on June 15th, leaving a flat gradient existing over the entire path on the evening of June 16. The Omaha sounding showed a layer at 4000 ft., with another at 15,000 ft. The Joliet, Ill., report showed a very slight inversion at 11,000 ft., but the lower inversion was completely washed out, so - evidently - this opening did not extend into the Chicago area.

At Columbia, Mo., the report showed the sharpest inversion, by far, that I have ever encountered, with the inversion layer starting at about 4000 ft., and extending vertically for more than 2000 ft. The Little Rock, Ark., sounding indicated almost identical conditions, except that here the layer was about 1000 ft. thick. Nashville also indicated a slightly weaker inversion at 4000 ft.

In all cases, it was the moisture lapse that was outstanding; therefore, it was the greatest factor in producing the super-refractive layer. The temperature increase across the inversions usually amounted from 1 to 3°, C. However, in the cases of Columbia, Little Rock and Nashville, the relative humidity lapse across the inversion amounted to 50 to 70%. To furnish a comparison: In normal atmosphere, the dew-point temperature decreases about 1°C per 1000 ft. rise while, in this instance, at Columbia, the dew-point temperature dropped 21 degrees in 500 ft. At Little Rock, 22 degrees in 1800 ft., and at Nashville, 20 degrees in 1000 ft. This opening, then, was pretty definitely the result

of Tropospheric bending. As for the new record, it was measured, here, on Lambert Projection Aeronautical Maps as 670 miles from Solon, Iowa, to the center of the city of Jackson, Miss. So, I would say that the final decision on the new record depends upon the actual location of the two stations with relation to the centers of the two towns.

Now, as for conditions prevailing over the path of the W5JTI-W7KOP hop: no similarity to the conditions reported on the W7FGG-W4HHK one-way hop can be found. This, in itself, is enough to dispute the application of the Tropospheric Propagation Theory to such long distance paths. If these instances are attributable to Sporadic E-Layer action, then - as I see it - the great question is: what is taking place to limit the occurrences to a one-way transmission? Could it be because of the difference in the maximum angle of radiation from the antennas used, or because the angle of incidence of each signal was not the same, if the Sporadic E cloud was not nearly centered between the two locations? I don't see how this could be answered, however, even if the same type of antenna was used at both locations, since with two beams of identical physical construction, there is no assurance that they will exhibit the same performance characteristics. At W0MNO, where a new beam has been under construction for the past two months, I should be able to write a book, now, on "How Not To Design and Construct A Beam for The 144 Mc. Band."

* * *

"SCOREBOARD" TOTALS . . .

Band openings and DX activity have been so frequent in recent weeks that our "Scoreboard" standings require a complete revision in order to not be misleading. Consequently, the "Scoreboard" in this issue will be the last published until new scores are in.

Please send a card, today, giving your correct score for 50, 144, 220, 420 and higher bands. Your cooperation will be appreciated! - W9CBW, Mel Mendelsohn, 4644 W. Adams, Chicago.

HORIZONTAL IN THE EAST

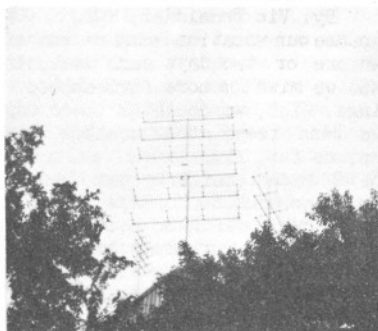
By: Jack Woodruff, W9PK

This month, instead of our "Station Of The Month" article, we have this special report on horizontal polarization in the eastern states, made possible by Bill Hoisington, W2BAV, Rye, New York. Bill has a 45 foot tower, with his shack at its top, located at Bedford, N.Y., 12 miles north of Greenwich, Conn., at Bedford, NY. The tower is 870 feet above sea level, and on it is mounted the 48 element horizontal beam, a 32-element vertical beam, for local work, Maine to Virginia. (Local?! - W9PK). Bill has a d.p.d.t. switch which permits instant comparisons of polarization. (How about those extra 16 elements on horizontal, Bill? - W9PK & Editor.)

W2BAV runs 700 watts and has a home-made receiver using 3 stages of grounded-grid lighthouse tubes in the trough-line circuit, with a trough-line mixer using a 955, and plenty of tubes after that.

The first interesting result was a contact with W2TGU, Ithaca, N.Y., who - with his horizontal beam - said he almost never turned it to the east. The distance is about 170 miles into the center of N.Y. State, entirely horizontal country. On the same night, W2ZUZ, Connecticut Hill, 10 miles to the West of Ithaca, was contacted. Then, on June 4th, came the first jackpot on horizontal. From 9 PM until midnight, only stations using horizontal were worked in Delaware, Maryland, western N.Y. and western Pennsylvania. Then, at 2230, the big thrill came; contacts were made with W3CJB/8 Elkins, W. Va., W3KBA, Dover, Pa; W3OYB, west of Williamsport, Pa.; W4BCT 70 miles west of Washington, D.C. and W4OLK/3, 35 miles west of Gettysburg, Pennsylvania.

Throughout the month, more horizontally polarized stations in central and western New York were contacted: W2SEW, Vestal Center; UAD, Rochester; RRQ, Geneva; HJS, Binghamton; and W2PW, Ithaca. These stations claim they had never before worked into the metropolitan area, which is only natural because of cross-polarization.



Horizontal Heavyweight of the East, W2BAV's 48 element array is situated magnificently above the 45 ft. high tower at Bedford, N.Y. The top of the 32 element 2-meter array is at the right. To the left and below the 48 element beam is the 32 element vertical array for 430 Mc.

The real payoff came on June 20, when W2BAV worked W3KBA, Dover, Pa., W3RUE, Pittsburgh (hiya, Ted!) and, finally, W8WJC, Everett, Ohio.

Conclusions to Date

1. Horizontal vs. Vertical

a. W4IKZ, on a poor night, was S1 to 2 on vertical; S3 to 4 on horizontal. On a good night, W4IKZ was S8 on vertical and S7 on horizontal. The path is about 350 miles, along the coast.

b. W3BLF is almost always equal on either horizontal or vertical; the path is 175 miles, over land.

2. Rotation or Maintenance of Polarization on Long Hops.

a. Contrary to what we have been told, almost all stations worked on horizontal have been totally inaudible on the 32-element vertical beam pointed in the same direction. Using his antenna switch for comparisons has now become such a habit with Bill that he automatically throws it upon hearing what sounds like DX. When nothing is heard with the switch open, or on the 32 element vertical, then his ears really become bent to horizontal!

(Continued on Next Page.)

MILWAUKEE TREMORS

By: Vic Tresidder, W9TQ

Because our vocation takes us out of town one or two days each week, it seems we miss the more favorable evenings. Yet, we do think there may have been fewer good openings this year, so far, than last.

The 2 meter emergency net changed operations back to Mondays at 2000. Experiences on field day point up the fact that more work must be done on equipment.

Don't fail to look north after 2100 on Mondays. You might run into a surprise from Wausau or Wisconsin Rapids. The fellows there are trying, and are hopeful their efforts will pay off. So are we.

From GYQ, Appleton, 145.6 and 146.4, we learn that HWX, Neenah, is on evenings on 144.138; LUQ, Oshkosh, on Wednesday and Thursday evenings at 145.13; EVL, Appleton, 146.8, evenings after 2100; BZA, 146, days; he works at night. GYQ is on evenings when free from WBYB.

No activity is reported on 144 in Sheboygan; we haven't heard from Green Bay.

As for words from points south, we are glad to hear BEU at it, again, breaking through with good signals, regardless. TKL, (big db sig ratings) is always heard when his beam is to the north or south. NW very regular; WFC not so. Guess he will be, soon. RHL DXK MMG BBR JIL UXS NFK and GUA have been making themselves heard, with a little help.

Now for Wisconsin items. WHW says he is thinking of a new beam; we don't mean any reinforcing of the attic flooring, either. GJE, Racine, had 522 receiver troubles, so built a converter. GGH back at it with swell signals from the new location. JPK on occasionally; Carl is troubled the most by TVI-tis - the viewing end. APT, FB Harley, had 829B troubles; all cleared up, now. UJM off, briefly, while improving the receiver. HTJ hasn't got that tower up, yet; look out when he does. BFI and g.-g. amps levelling off. EXW, newcomer hasn't enough mid-week evening time, yet.

Night owl. PZS in his new location at Lake gets out with a good wallop. EAN bought a car; now worries about wrist-pins and crankshaft bearings. CXW put a new beam together but has not used it much other than for dx. KQM busy with scopes and TV from the ground up. PM, a one-man committee with mcw; pardon, - A-2. KOL shows up when needed. FSE - no hear; guess it is due to working hours. YYY still bothered with r.f. going the wrong way. YFT finally got hooked with his old friends in Maple Park and DeKalb. BDQ works evenings, but has hopes. DYZ still twiddling dials. IPF at it again with a new beam and a good sig. W0NSJ/9 surprised the gang May 15 from the Schroeder Hotel, Milwaukee. DYF usually shows up on Sunday mornings. CUJ surprised on ground plane. FES and EFM do surprise one, now and then. Keep your beam moving and maybe we will all have some more. Good hunting 'til our next.

* * *

Horizontal in the East (Continued)

3. Use of A Horizontal Antenna in A Vertical Area

a. All local stations are way down when using the horizontal beam. The front-to-back ratio is very good on the beams, having been carefully measured by W2QJF, who has a very accurately calibrated S meter. He reports both beams have 48 db front-to-back ratio. Last summer, the limits of the vertical area were reached, so Bill turned to horizontal for new frontiers.

At present, Bill is carefully studying weather maps, writing down the areas worked each day and pegging them on the map. He says that some startling conclusions seem to be indicated which, if true after more confirmation is received, will provide a valuable contribution to VHF propagation knowledge. We hope Bill will present it in these pages.

All horizontally-polarized 2-meter stations west of New York are asked to listen for WZBAV from 2100 to 2200, EDST; or, write to Bill for schedules. The address is WZBAV, Bill Hoisington, Guion Rd., Rye, N. Y.

SOME OBSERVATIONS ON TWO METERS
BETWEEN SILVER SPRING, MARYLAND
AND PITTSBURGH, PENNSYLVANIA.

By: W3GKP and W3RUE

During May, W3RUE, Pittsburgh, and W3GKP, Silver Spring, maintained schedules on 144 Mc., on straight c.w. The distance between the two stations is about 180 miles, and the sketch gives an idea of the path over which transmissions were received. W3GKP is situated about 350 feet above sea level, and W3RUE is at an elevation of about 1168 feet. The cross-section sketch of the path was drawn from an airway chart which showed contours at 1000-ft. intervals.

W3GKP operated with about 600 watts input to p.p. VT127s. The receiver was the W3GKP converter described in the December, 1948, issue of "The VHF News", operating into a Hallicrafters SX-28. The antenna was a 24-element W2NLY array, described in "QST", September, 1947, on horizontal, with the center about 38 feet high.

W3RUE used 100 watts input to an 829B final. His antenna is a 6-element, wide-spaced beam, 45 feet high, fed with 109 feet of 300 ohm twinlead. Ted's receiver is a 6J6 preamplifier into a VHF-152A, to a home-built 10-tube superhet.

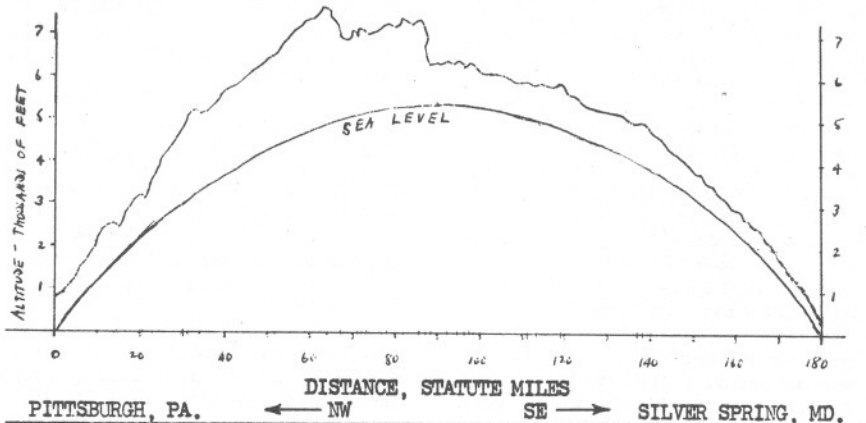
Ordinarily, contact could be established, and reports exchanged without much difficulty by sending double, although signals were weak and fading.

Use of "sharp" crystal filter on the SX-28 at W3GKP held down the background noise, and helped a lot. On one occasion, we handled a message in regular form, and on numerous occasions, we exchanged information on calls, frequencies, type emission and polarization of other stations.

Conditions were quite uniform from night to night, and exceptionally strong or weak signals were encountered only a few times. (A comparison of the logs at both stations showed that on 3 occasions when contact was not made, W3RUE was unable to be on the air on 2 nights, so the net misses on a 2-way total out of 19 tries, or 94.7% contacts [- Editor.] Signals were above normal on May 9th, 10th and 18th. During the latter part of June, W3GKP was consistently RST 579, at W3RUE.

Both W3GKP and W3RUE agree that the results obtained over such a long, poor path thoroughly justify the use of straight c.w. on 144 Mc., and may even represent a sort of minor triumph for horizontal polarization.

C.w. demands stable transmitters and receivers, but the end justifies the means. We hope we can stir up a little more c.w. operation, or - at the very least - a little tuning with the bfo on by more of the fellows who are after DX. As near as it can be determined, there are only about 5 144 Mc. operators northeast of W3GKP who ever listen for c.w.



TWO METERS, LAST MONTH (Continued) described in reports, except that a good number of stations are active in Detroit, Michigan. See page 12.

Ed Grabill, W9ZHB, set his 2-meter "sights" last year for the state of Kansas. Although he came close, but didn't hook in 1948, Ed and W0DSR did make the first Illinois-Kansas QSO on Two, in June. FB.

Down in Tennessee, that man Wilson, W4HHK, has been running two-meters ragged almost ever since he got on the band. In addition to the activity he reports on page 22, Paul, on June 24, worked W8CYE, Miamisburg, Ohio, about 450 miles, and another St. Louis station, W0IHD. This bit of work brought Paul's score up to 7 states and 5 call areas in a matter of a few months. Paul's contacts with W0HQA, Des Moines, Iowa, and W0ZIS, Missouri, established the 1st two-meter contacts with those states, as best as we can determine.

The W5JTI-W0NFM record-setting QSO also established the first Mississippi to Iowa two-meter contact. And, W9UED, Chuck Williams, West Frankfort, Illinois, tied up with W5JTI for the first reported Illinois-Mississippi two meter QSO. Chuck and his partner W9NVY used to be reporters to this paper when it was a mimeographed publication, over 2 years ago! Wha - hopen!, Chuck; no hear!?

Congratulations to Mr. and Mrs. W2 PAU! E. Miles Brown, III, a vertically-polarized 2nd harmonic arrived on May 24, 1949, and weighed in at 9 pounds, 1 ounce! W2YT told us!

W2NLY is another proud poppa, and says it's a $7\frac{1}{2}$ pound boy. But, Jim must have been excited when he wrote because he didn't pass along the new Jr. op's name. Jim says that the XYL, the YM and himself are all OK, and that he - 2NLY - is glad it's all over. How about Mom?

Jim, W2NLY, reports that he is still maintaining his schedules to the west. (See "The VHF News", May and June, 1949.) He now has the new horizontal beam in operation so that either polarization may be selected at the flip of a switch. Tests with W1BCN, Cape

Cod, and W3GLF, York, Pa., show the same signal strength when stations are polarized alike; on cross-polarization, with the same beams, Jim says signals dropped from S7 to completely out, which shows at least a 42 db handicap, cross-polarized, he feels, and cites the experience as another good argument for standardization on one polarization. Jim says he doesn't care which one is chosen.

On June 20, after hearing W3RUE on and off for some time, Jim heard Ted S5-8. Also, W8WJC was coming through S1-3, and hooked up with W2BAV/2 at the "Hoisington Antenna Farm" in Bedford, N. Y. Jim, W2NLY, was caught short on a contact because his high-power changeover relay was out of service, and he was stuck with only 50 watts instead of a gallon. James says he refuses to be caught with his final down, again! And, upon hearing weak carriers from the west, again, W2NLY joins W3GKP, W3RUE and other real DXers in the plea, "Fer gosh sakes, fellas, use C.W.; nothing else!"

Mentioning c.w. reminds us to ask you for your help with W7JRG's problem. Located in Sheridan, Wyoming, where seldom a 2-meter signal is heard, Ken writes that, on July 4th, he finally heard a strong, steady c.w. signal at about 145.3 or 145.4 transmitting a steady string of dots without any breaks or identification. The time was 0115 MST; the signal dropped out at 0125, and seemed to originate from the west. Ken will certainly appreciate your help in identifying his 1st 2-meter "heard".

More July 4th-weekend DX was worked by W9JMS, Cory, Indiana, when he hooked that ever-roamin' W4FBJ, who was operating portable at White Top Mt., Va., on July 5 at 0605. Howard also heard W9LWE/0 in Caledonia, Minn., July 4 weekend, but didn't have time to hang on to them. No report, yet, from W9LWE, but we hear the boys did fairly well.

Although "Smoke", W3EP has been out-doing himself recently on 6, he tells us that W3EHA has been holding down 2-meters in the Terra Alta, W. Va.; area, working 9 stations in the vhf

contest, which is good, considering 15 watts buried in the hills. W8JKN has additional pipe to raise his antenna, and should be getting out, now. SEP added 2 more states to his 2-meter "Scoreboard" standing, so Smoke couldn't have been on 6 all the time! Leroy, W5AJG, says 2-meters awakened again in Texas. On June 30, he worked W5OQJ, LaPorte, about 300 miles distant, W5FSC, Houston, and W5SM, in Beaumont. W5IRP, Lufkin, Texas, was heard. Leroy says the occasions were not too auspicious, but at least they were a beginning for "this year"! He also observes, "Seems one has to get up early for the haul, this year!"

In Pittsburgh, Pa., Ted Fabian, W3 RUE has been kicking over the traces a bit since maintaining the May-long schedules with W3GKP. On June 20, Ted worked W2BAV, on a partial contact, for 335 miles. W2RQR, Hamburg, N.Y. was another QSO. On June 21, W4 AO, Falls Church, Va., VE3AIB and W8 CPA, Columbus, O., were entries in the log at W3RUE. W2EH, Collingswood, N.J., on horizontal came along on June 28th, while on June 30th, the month ended with a contact to W4LVA at Arlington, Va. On July 1, W3RUE heard W4CLY, worked W4JFU, W4FJ in Virginia, Suh! July 3 log entry shows W4JFV, near Roanoke, Va., to W3RUE.

Marg Roberts, W8BFQ, paused between jars of strawberry jam she was making, on June 23rd to let us know that she worked only 64 stations in 9 sections in the vhf QSO party. "Two meters is surely different" says the BareFoot Queen. Marg reports 2 was fairly good, with Jerry, W8WJC (the OM) contacting W3KBA ELF HWN LUC, W4BCT, W9BGH, UCH and TKL most consistently. A bit of new DX was worked when Jerry tied up with W2BAV/2. (Who's happen to W8UKS?)

A radiogram from W4IQV, Lake City, Florida, via W9QIL, Chicago, states: "Have plugged VHF News by order to 'Quad' mentioning your swell publication. Keep up good work. Florida gang using 2-meters now for local traffic to towns hard to reach otherwise. - Al, W4IQV" FB, and thanks!

In response to a number of requests, and dwindling interest in the feat-

ure, we herewith bequeath to fond memory the "Brain Teasers" with W9 CUP's sole answer to that last one: $9567+1085 = 10652$; that's the number of subscribers we'd like to have, hi! Terry, W9CUP, Joliet, is active on 2.

The Two Meters and Down Club of Los Angeles announce that their VHF contest winners are W6BHG, 103 contacts, prize: 16 element beam; W6LGU, 92 contacts, prize: coaxial relay; W6FOW, 68 contacts, prize: 832A tube. Thanks to W6EFX, president, for the news. W6PFV, Charlie, sent us an article on his coaxial converter; pse QRX, OM, 'til the rush of activity news subsides. Thanks!

W6WKO, who won a renewal subscription to the "News" at the Two Meters and Down Club, says "You definitely have filled a need for a publication for the VHF man. It is really swell, and keep up the good work." Ralph says a pair of 24Gs and a 16-element beam will keep him busy, this summer.

One of our long-faithful supporters, Otho Steelemith, W0AEH, reports his frequency is 144.007, in Ogden, Iowa.

W8ZEI is back on 2 from his new QTH in Steubenville, O., with a 522, VHF-152A, 6J6 preamp and a 2-stack array.

W9WWE and W9ACC both report that the Tri-Cities, Moline, Rock Island and Davenport have a lot of activity on 2: W9EWH MVT WWE, Rock Island, W9ACC, MSQ, Moline, and W9RKK BKD and PQJ of Davenport, Ia. (Who's happen to ØHAQ?) The whole gang uses 522s, complete, except for W9EWH, who sports a VHF152A, and W9MVT who is using WØHAQ's "ZEX". W9ACC sent in a nice report on the use of the "Quad", but we haven't space for it in this issue. Sorry!

W9LUQ, Oshkosh, Wisc., operates on 145 Mc. with 100 watts and an 8-element horizontal beam. The receiver is 2 6J6rf. stages. "Am looking for contacts on Wednesday and Thursday eves.", states Earl. Other activity is from W9RKL, Oshkosh; HWX, Neenah; AJH, Menasha; EVL, and GYQ, Appleton. HWX has already worked into the Chicago area.

W5DFU screams, "Where was the Fort Worth gang in the June issue? I think Bonnell is harboring a bunch of backsliders! What say, Uncle Willie?"

(Continued on Page 13.)

W0MNQ REPORTS FROM KANSAS CITY, MO.

No records to report from the Kansas City area, but there have been some fairly long-distance contacts made for this area. W0JTE, Abilene, Kans., has worked into Poplar Bluff, Mo., and Sioux Falls, S.D. Both contacts were of the 400-mile variety. Considering that W0JTE is using an ARC-5 transmitter into a 4-element beam, this is doing all right! W0DSR at Greenleaf, Kans., worked into Illinois, contacting W9ZHB, W9BPV and others. We don't have the answer, yet, on W0JTE since he didn't answer our card.

On June 17, at about 2000, rather weak signals were heard in the Kansas City area, and apparently originated from the northeast. They were not 100% readable, but enough was read to understand that "the trouble with holding a record was that from then on, you would be concerned with who would take it away from you, and how long your record would stand." Later, we learned that W0NFM, Solon, Iowa, had contacted both W4HHK and W5JTI the night before!

Well, Field Day came and went, with about the same experience as last year. No band openings, in this area. The local club station, W0RVG, was installed on a hill in Water Works Park, with both 6 and 2 meter equipment in operation, as well as on the lower frequencies. The 2 meter rig consisted of home-built transmitter with long-lines 832 final, and home-built converter into SX-25, belonging to W0NNU. The beam, a 6-element horizontal, was loaned by W0ZJB, with the coax contributed by W0MNQ. A good amount of the operation was done by W0LFW. 15 local stations - 5 less than last year - got on, and everybody was looking for W0IAC, the St. Joseph, Mo., Club Station. However, according to W0RNC, a heavy rain on Saturday morning caused so much mud and confusion that the 2-meter rig was never set up. All in all, field day was a success, but if chigger bites had counted as contacts, we'd have won the contest, believe me!

(W0MNQ's Propagation Report, Page 6.)

W8RWW REPORTS FROM DETROIT, MICHIGAN

I have an "axe to grind"! It is my hope that more out-of-town stations will turn their beams on Detroit!!

Apparently, most of the 2-meter hams don't realize that - in the Detroit area - we have over 30 active stations on 144 Mc.! The most active of the group are: W8s RPM UMI TBS GJF CWK EIM NNF ZPE NEC WMT NJC MFG DKK GQG MCV ZTU RVI BEL YOT MBT MXU FZ DUL ZRC and VE3s BHE BPB BOB and AKS. There are several more stations on in Pontiac, Fenton, Three Rivers, Kalamazoo (What ever became of W8CVQ? - Ed.) Lansing and Grand Rapids. Also, I understand there are several stations in Flint and Saginaw, but those stations operate on vertical and we therefore do not hear them. All of the stations listed above operate with horizontal polarization. I also point out that many of the stations listed run over 100 watts input. One station can run inputs up to 250 watts, and several run between 50 and 75 watts.

Another point: when the band is in fair condition, the Detroit area boys often hear and call W9s, W3s and W2s with little success. This seems to indicate that antennas are not pointed in our direction. What can we do, "Mr. Anthony"? (Continue reports of whom you hear, and when; send cards to 'em for schedules, and howl to the blue heavens! - Editor.)

The XYL and W8RWW enjoyed the recent v.h.f. QSO party, and managed to work 35 stations in seven sections. Our heartfelt thanks go to W9TKL, Waukegan, Ill., and to W2GBK, Sherman, N.Y., for contacts, after many hours of calling and listening! The station at W8RWW consists of a 6AG7 harmonic oscillator, 705 doubler, 832A tripler-driver to 829B, 100 watts, phone or c.w., transmitter. The receiver is 3 stages, 6J4 grounded-grid r.f., 12-AT7 osc.-mixer, i.f. output 11 Mc., into a BC-348. The antenna consists of 8 elements, 4 $\frac{1}{2}$ -waves in phase with reflectors, about 40 feet high.

Please, fellas, aim that beam toward Detroit, anytime after 8:30 PM, EST, any night. Let's get acquainted!!

Keep up the good work, Bill! (Thx!)

TWO METERS, LAST MONTH (Continued)
Ora Martin, W6ON, wants good dope on the 522, up to the minute with improved receiver, and xtal mike on xmtr.

Ken, W7JRG, says, "Correction! The ARR-1 is the noisier, not the VHF-152A as reported in the May issue, p.18."

W2NXC, Lyndhurst, NJ, is on 2 with 16-elements atop a 40 ft. tower and a 522 with 20 watts. Four converters are used at W2NXC. One is a broadband converter, using 2 6AK5 r.f. stages with 2 grounded-grid 6J4 stages in front. Another converter consists of two 6J4 grounded grid stages, 6J6 mixer-oscillator. Yet another is a converted vhf ARC-5. Still another is a 6AK6 r.f., 6AK5 mixer and 6C4 oscillator. A trough-line converter, using 2 6AK5s is being considered for the next front end.

Bob Thompson, W4GMP, now a Philco Field Engr., is in Charleston, S.C., and hopes to be on 6 and 2; he says activity is nil - the fellows are just not interested. Hmhmhmhm!

W2MWA, Art Johnson, Hicksville, NY, will be active soon with an 8 element beam, 125 watts and a 6J6-VHF-152A to NC-173.

In the Chicago area, activity has been very poor, except for Field Day weekend when it was fair. A conspicuous number of faithful two-meter old timers were inactive on field day, resenting the fact that only on such occasions do many two-meter equipped stations suddenly remember the band. (Darned if I don't agree with me! - Ed.)

Alice, W9DXX, "our lady of two-meters" has been going after DX and now has 8 states to her credit. W9GUA picked off W8AFF, AKR, W9EGH and CQH. TKL has his guns aimed for Tennessee and Mississippi. UCH, Ft. Wayne, got another state on his W9LWE/ø QSO. CQR has been putting his new beam to good work, getting out nicely. GLY quite active as is NW.

HXS is now on a.m., fighting loss of final drive. Thassall; CU at Picnic!

Sincerest sympathies to Ken Turner, W9DAO, whose wife was killed in a plane crackup. Ken was injured badly but not critically, fortunately.



"Audi alteram partem"
(Hear the other party; hear both sides.)

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All editorial contributions will be appreciated, and should be mailed on or before the 25th day of the month for publication in the next issue.

CORNER REFLECTIONS . . .

This issue marks the beginning of our Fourth Year! Hardly seems like 3 years ago that, while painting the back yard fence, the idea of "The VHF News" came along. (Enough of that! See July, 1948, page 13! - Helen.)

Thanks to Alice Bourke, W9DXX, Marge Bowman, XYL-W9GLW, Mel Mendelsohn, W9OBW, and Sam Tarantur, W9WFC, for the remembrances of the "News" 3rd Birthday. Thanks to the entire gang, subscribers new and old, advertisers, all the fellows whose wonderful work has made interesting columns in this sheet, and to Helen for keeping "The VHF News" going. Last, but not least, thanks to Chicago Aligraphy and Litho. Co. for a production schedule that has never failed during our 2 years with them, in spite of some fast moves!! We feel more encouraged, now, in our drive for 600 new subscribers. QRK? Again, thanks to all you nice people!

AROUND CHAMPAIGN COUNTY

By: Ken Billings, W9FKI

I think a letter from W9EHK gives as good a picture of conditions during June as anything I could produce, so I will quote it, 100%.

"Hi, Ken: McClean, Ill., 6/30/49

Two-meter operation seemed much improved with mounting activity, this month. Stations worked included W9s EPV JIL GYZ PK DRN ALU FKI IMJ CBV ZHB MBI SUV HTJ HGE (Beloit, Wis.) FVJ MAL JYB CSZ GLY CZR CUP TKL NW LLA (Indianapolis, Ind.) ASM JDD WWH EBU IAW JMS IT/9 LZW/9 MD/9 OIM/9 DUM/9; W0s EZE DEN HQA (Iowa) WGZ ZIS (Missouri) DSR (Kansas) BJL UTX PHA, W8CYE (Ohio) and W5JTI (Mississippi), for a total of 8 states during the month. Of these stations, 6 were within 50 miles; 11 were between 50 and 100 miles away; 20 were between 100 and 150 miles; 5 were between 150 and 200 miles away; 2 were between 200 and 400 miles distant; 2 were over 400 miles. This gives a good cross-section of activity in this vicinity.

"On June 16, after W0DSR and W9ZHB's contact, W9EPV came thru with flying colors. 20 watts and a 6 element 'straight in line' beam answered a CQ from Neil, W0DSR, and put the stamp on the second Illinois-Kansas 144 Mc. contact. The band seemed to be open, including Iowa, Illinois and into W0DSR at Greenleaf, Kansas. (Over Kansas City, Kan. area, but not inclusive??). Also, St. Louis, Mo, Memphis, Tenn., and Jackson, Miss., were well represented and either worked or heard here at McClean. W4HHK, near Memphis, was being heard and W0DSR was breaking through from the side of the beam at the time W9ZHB was working Neil. W9UED, near Carbondale, Ill., and W5JTI were heard working, apparently for the first Mississippi to Illinois contact. W5JTI's signals had been breaking in for short bursts of a few words from 10PM until around 1150PM, CST, at which time Tim, W5JTI came thru a solid Q5 and remained there until around 1228AM. A peak of S5 above noise was observed. For two hours before contact with W5JTI, a heavy fog had been settling in over

McClean, and the feed lines were dripping water at the time of contact. 73, OM. 'Red' McGuire, W9EHK."

On the evening of June 30, Red was able to work W9s EWO DXK GCB HKQ and UED, all over 100 miles; W9PZS, about 200 miles, and W0IHD, 120 miles. If my count is correct, this is 53 different stations during the month. A high power DX'er worked by Red was W9HTJ, near Milwaukee. HTJ was pushing 9 watts into a folded dipole 30 feet high, and a 15 minute solid QSO took place over the nearly-200 mile path.

W9SUV, Arcola, worked 16 states on 6 meters in a short time, but has given up Six to devote more time to the Two meter band. During June, Russ was able to work a number of stations spread over Illinois, Indiana, Ohio, Missouri and Kentucky.

W9FVJ missed out on the new states on the 16th of June, but made several contacts over the 200 mile mark. Along with others, Sam noted that poor signals 50 to 75 miles away were no indication of what to expect from greater distances in a couple of hours.

W9LIR has his 16 element beam rotatable at a height of only 40 inches, but has been working 60 miles consistently, with contacts up to 150 miles. As soon as the mounting is completed, Frank will have the beam 30 feet high.

W9IAW found conditions good enough to overcome a low antenna and a 1-10 receiver to permit contacts around 60 to 70 miles.

W9CEU, Lerna, has field day all the time, with all a.c. coming from a small gasoline motor-driven generator. Glen has been receiving good reports the full length of Illinois.

The Twin City Radio Club of Champaign-Urbana, using equipment belonging to W9LIR and W9FKI, operated on 2-meters on Field Day under the call W9DUM/9, and contacted 23 stations during the 24 hour period. A 4-over-4 antenna, 60 feet high, helped considerably, as only two contacts were made less than 50 miles away.

Large numbers of VHF men were present at both the Starved Rock and Peoria Hamfests. Known to be present

at the Weldon Springs Picnic, on June 25th, were W9's IBI FVJ ZHB LIR EPU CFV QUV FPD FHR ALU JIL EPV EHX LMJ GLR RUV OVS GDM IAW and FKI. Several fellows travelled over 150 miles to attend this picnic and, from comments heard, most of them will be back, next year.

W9EGH, Fleasant Lake, in the extreme northeast corner of Indiana, has been heard frequently in this area of late. W9FWJ worked him, and everyone else either heard or worked him.

* * *

VHF DX ON COMMERCIAL FREQUENCIES...

From Sgt. D. L. Peterson, W9EDG, WQLO, City of Evanston, Ill., Police Department: "Here is some information which might produce more thought on the Vertical vs. Horizontal polarization discussion.

"We recently changed frequency from 30.7 Mc. to 155.610 Mc., nbfm being used in both instances. The new equipment is set up temporarily at the police station, preparatory to our moving into the new radio station.

"We are using a Motorola Isoplane Antenna, model P-8351, with our new Motorola station equipment. The following stations were logged on June 22, 1949: WQRN, West New York, N.J., 4:15AM; WQFO, Lancaster, Ohio, 4:43AM; WKSO, Bartow, Florida, 4:53AM; WSVS, Michigan City, Ind., no time announced. No information is available of the power used by these stations, and it can be assumed they have vertical polarization as most police installations do have.

"If Florida can be heard on 155.610 Mc., why not on 144-148?"

(Florida can be heard, and probably will be worked on 2, eventually. The odds against the amateur are that commercial, or police, operation involves continuous watches on fixed-frequency operation, shared by services all over the country, with receivers of .5 microvolt or better sensitivity. Consequently, openings will be caught when the vhf amateur gang is fast asleep. But, this does not indicate that vertical is better than horizontal. - Editor)

TWO METERS AROUND PORTER, INDIANA

By: Carrol E. Gustafson, W9CAW

Activity was quite spotty during June, although some nights proved to be outstanding. The dates of June 9, 15 and 29 proved to be best, here, but because of the unsolved YL-itis situation, we may have missed some of the better nights. On the whole, signals seem to boom in, and there are no more of those "signal-less" nights.

Locally, activity seems to be stirring up, somewhat. Andy, W9HDB, has an 829B final working, now, and is supermodulating it with TZ40s, running more soup into his 5-element beam. Bob, JDQ, is mapping out a new 829B final and is planning a 2-meter converter; he is also still thinking about corner reflector antennas.

Warren, W9EEO, is the chief lookout man on 2-meters around northern Indiana. Although he seldom flips the switch to the 522 transmitter, you can be sure that he is tuning the ole band almost any night. Ivan, HKQ, has been hearing lots of DX lately, but it is rumored he has his beam centered on Tennessee.

RHL and DLI, Hobart, are on occasionally and always put out good signals. RHL has licked TVI completely, and has now dispensed with the special switchboard that had been taking calls about TVI! CWA, Gary, made an appearance on 2 meters with a CQ, but despite several of the fellas calling him, no QSO resulted. Maybe someone ought to suggest a receiver. CAW is planning an 18 element beam and an 829B final. Thanks, Mr. Editor, for your suggestion of getting married, as a solution to my yl-itis problem. I'm not quite that desperate, yet!

We're looking forward with great anticipation to the Midwest VHF Club Picnic, and hope to see you there!

* * *

TWO METERS AND DOWN CLUB PICNIC

To be held, July 24, at Griffith Park, Vermont Ceyon area, Los Angeles. 50¢ per ticket; kids free. Ice cream, lemonade and fun a-plenty!! Come out and join us! - - W5EEX....

TWO METER DX SCORE-BOARD

| CALL STATES | CALL AREAS | OTHER | DX-MILES |
|-------------|------------|-------|----------|
| W3UKS | 15 | 7 | VE3 |
| W8WJC | 14 | 6 | VE3 |
| W8WXV | 13 | | 560 |
| W0NFM | 13 | 7 | 670 |
| W9TKL | 12 | 6 | VE3 |
| W8CYE | 12 | 6 | 497 |
| W3RUE | 12 | 5 | VE3 |
| W3KUX | 12 | 5 | 535 |
| W4FJ | 12 | 5 | |
| W2NLY | 12 | | VE1 |
| W9ZHB | 12 | | |
| W9JIL | 11 | 6 | VE3 |
| W9UCH | 11 | 6 | VE3 |
| W9PZS | 11 | 6 | |
| W9JMS | 11 | 4 | VE3 |
| W2OHE | 11 | 4 | VE1 |
| W9BBU | 11 | | |
| W9NZ | 10 | 6 | VE3 |
| W9CQH | 10 | 6 | 475 |
| W3GKP | 10 | 5 | |
| W9PK | 10 | 5 | 370 |
| W9JVC | 10 | 5 | VE3 |
| W1HDQ | 10 | 4 | VE1 |
| W2PAU | 10 | 4 | VE1 |
| W4CLY | 10 | 4 | 500 |
| W9HGE | 10 | | |
| W3GV | 9 | 6 | VE3 |
| W9AB | 9 | 5 | 350 |
| W8WRN | 9 | 5 | 370 |
| W9WFC | 9 | 5 | |
| W2YT | 9 | 4 | |
| W4AO | 9 | 4 | |
| W1CTW | 9 | 3 | VE1 |
| W1OOP | 9 | 2 | |
| W4FBJ | 9 | | |
| W9FVJ | 9 | | |
| W9ONO | 8 | 5 | |
| W9WVH | 8 | 5 | |
| W8EP | 8 | 4 | |
| W8WSE | 8 | 4 | VE3 |
| W9ZJO | 8 | 4 | |
| W3QKI | 8 | | |
| W4HHK | 7 | 5 | 500 |
| W0WZ | 7 | 4 | 660 |
| W9NFK | 7 | 4 | 410 |
| W9CAW | 7 | 4 | |
| W3WEM | 7 | | |
| W4LNG/1 | 7 | 3 | 240 |
| W9ASM | 7 | | |
| W9JPK | 7 | | |
| W9MBL | 6 | 4 | 295 |
| W9BRY | 6 | 3 | 399 |
| W9GET | 6 | 3 | |
| W9OBW | 6 | 3 | 355 |
| W9AFT | 6 | 3 | |
| W3NOJ | 6 | | |

TWO METER SCORE-BOARD

| CALL STATES | CALL AREAS | OTHER | DX-MILES |
|-------------|------------|-------|----------|
| W4BCT | 5 | 4 | |
| W9GLY | 5 | 2 | 270 |
| W9BDW | 5 | | |
| W4OXC | 4 | 4 | |
| W0DVV | 4 | 2 | 265 |
| W2YMP | 4 | 3 | 160 |
| W9BAX | 4 | 2 | |
| W0DDX | 4 | 2 | 250 |
| W8BKL | 4 | 2 | |
| W9CZR | 4 | 2 | |
| W9FVD | 4 | 2 | |
| W9KRZ | 4 | 2 | |
| W9NW | 4 | 2 | |
| W9RTY | 4 | 2 | |
| W0HXV | 4 | 2 | |
| W0JHS | 4 | 2 | |
| W8ZEL | 3 | 3 | 100 |
| W4HKK | 3 | 2 | 70 |
| W0KPK | 3 | 2 | |
| W9MMV | 3 | 1 | |
| W0MZH | 3 | 1 | 153 |
| W0MNQ | 3 | 1 | 149 |
| W0SV | 3 | 1 | |
| W4LNG | 3 | 1 | |
| W0ZJB | 2 | 1 | 161 |
| W6HZ | 1 | 1 | 190 |
| W5AJG | 1 | 1 | 400 |

220 MC. DX SCOREBOARD

| | | | |
|-------|---|---|-----|
| W1CTW | 7 | 2 | 275 |
| VE1GX | ? | ? | 275 |
| W1DAH | 3 | 2 | |
| W1PRZ | 3 | 1 | |
| W2BAV | 2 | 2 | 33 |
| W1HDQ | 2 | 1 | 40 |
| W1PMS | 2 | 1 | |
| W1PZA | 2 | 1 | |
| W6EZ | 1 | 1 | 20 |
| W1OOP | 1 | 1 | 10 |
| W9OBW | 1 | 1 | 1/2 |

420 MC. DX SCOREBOARD

| | | | |
|---------|---|---|-------|
| W2BAV | 3 | 2 | 62 |
| W2HWX | ? | ? | 62 |
| W1HDQ | 2 | 2 | 60 |
| W0DDX | 1 | 1 | 10 |
| W0MNQ | 1 | 1 | 10 |
| W9HXS | 1 | 1 | 6 1/2 |
| W9KLB | 1 | 1 | 6 1/2 |
| W9CQH | 1 | 1 | 1 1/2 |
| W9ZJO/9 | 1 | 1 | 1 1/2 |

Please send your up-to-date reports of VHF DX to W9OBW, Mel Mendelsohn, 4644 W. Adams St., Chicago 44, Ill. The scores are changing, rapidly!!! Please correct us at once!

HEY, FELLA!

Sorry for shouting at you, but just wanted to be sure you know about the Second Annual Picnic of The Midwest VHF Club, which you shouldn't miss! WHY?

Because, at the First Annual Midwest VHF Club Picnic, over 100 hams on 2, 6 and 10 meters, from 4 states, were there to enjoy each others company, games, races, bingo and hamming in general. The YLs, XYLs and kids had their own fun, too. Prizes were awarded for everything from a QSL-card hunt for the kids to the best mobile installation (taken by a 10meter man, of course!). Prizes, galore, are arranged for this year's outing. The Midwest VHF Club, in spite of handicaps by reputed radio parts "dealers" associations against ham affairs, has had no difficulty in obtaining support from its friends. Tubes of all kinds, from 8025s, 832As, 872As to 6AK5s; beams for v.h.f.; ANTENNA MAN-

UALS, vhf transmitter, and many other items (including some subscriptions to "The VHF News") will be awarded to hams.

Bring your handy-talky, portable or mobile unit; these draw prizes, too! (Club members are ineligible for competitive prizes.)

Many leading v.h.f. amateurs of the 6, 2 and higher bands will be present, as will representatives of The Chicago and Mobile Radio Club, which seems to go "everywhere". This will not be a highly "organized" affair that robs you of a chance to talk to the guy you seldom get a chance to see. This will be a picnic-get-together, not a series of forums!

An admission charge of \$1 is made for persons over 12. Reason: last year, when the Club expected only a few fellows to show up, it was snowed under by the crowd, and individual club members themselves paid the bill which is too much to expect from any gang! So, because many, many hams said it was well worth \$1, that's it! Come, join us in a ham get-together!-W9NFK.

SECOND ANNUAL

MIDWEST VHF CLUB PICNIC

SUNDAY - JULY 31, 1949.

TIME 11:00 AM.

PLACE

THATCHER WOODS

(NEAR CHICAGO)

GROVES 11 & 12 & PAVILLION

PLENTY OF PRIZES AND HAM ACTIVITIES WITH RIGS ON ALL BANDS. GAMES FOR THE WOMEN AND CHILDREN. BRING THE WHOLE FAMILY, PACK A PICNIC LUNCH OR YOU CAN PURCHASE EATS AT A PUBLIC STAND NEARBY.

FOR TICKETS WRITE TO W90BW
4644 W. ADAMS ST, CHICAGO, ILL.



ADMISSION

\$1.00 PER PERSON

CHILDREN UNDER 12 FREE

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AMATEUR AND AIRCRAFT RADIO EQUIPMENT—X-RAY—MEDICAL, INDUSTRIAL AND SHOE FITTER SERVICE

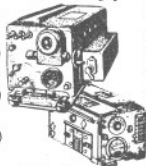
TELEPHONE HOURS—DAILY 9 AM to 5:30 PM 1650 N. DAMEN AVE.
 A R MITAGE 6-8809 Saturday 9 AM to 1 PM CHICAGO 47, ILL.

AFTER THIS—THERE AIN'T NOMORE AT THESE PRICES

IMPORTANT NOTICE. This sale ends September 5, 1949. No orders received here after that date, will be accepted, at these prices. **BUY NOW.**
 BC-454, 3 to 6 MC Receivers. SGR-283, Receiver-Transmitter Set



Has BFO, 6 tubes, all parts.
 Less DM-32 dynamotor.
BRAND NEW each \$7.50
 As above, less tuning dial.
USED, excellent, each \$4.50



Includes a 4 tube, 25 watt, CW, MCW or VOICE Xmit.; 5 plug-in-coils; 6 tube TRF receiver; 6 plug-in-coils; control boxes; antenna relay; dynamotor; TM; etc.
BRAND NEW set \$25.00

BC-455, 6 to 9 MC Receivers. With dials, tubes, etc. **USED**, perfect \$7.00



BC-457, 4 to 5.3 MC Transmitters. Has 4 tubes, crystal, all parts. Convert to 80 meter or use as BFO on 10 meter
BRAND NEW each \$7.00

BC-429, receiver of above set, 6 tubes, and 1 **only** coil set below. **USED**, excellent condition, \$5.00

BC-430, transmitter of above set, tubes, and 1 **only** coil set. **USED**, excellent condition, \$5.00

BC-458, 5.3 to 7 MC Transmitters. Convert to 40, or BFO on 10 meter.
BRAND NEW each \$7.00

BC-450, Control Box for 3 receiver Has ON-OFF-CW switches, dial, volume control, etc
BRAND NEW each \$1.00

BC-451, Control Box for transmitters. Has key, jacks, switches, etc. **USED**, excellent 75¢

DM-32, 24v DC recv'r dyna. **USED**, 59¢
 DM-33, 24v DC Xmit. dyna. **USED**, 79¢
 MC-215, Remote Control Cable, connects recv'r to box. 15 ft. with splines, nuts, etc. **BRAND NEW** ea. \$1.50

FT-220, rack for 3 receivers 79¢
 FT-221, mount for 220 rack 50¢
 FT-226, rack for 2 Xmitters 79¢
 FT-227, mount for 226 rack 50¢
 FT-234, rack for 1 Xmitter \$1.00
 FT-232, mount for 234 rack 50¢
 FT-222, mount for BC-450 box 25¢

Schematics for all 274-N sets. Specify unit. From TM. Per print 15¢

BC-1206, Radio Range Receivers. 200 to 400 KC, with 135 KC IF, 6 tubes, all parts

Needs 24v DC for A & B supply. A dandy "Q 5-er"
BRAND NEW each \$5.50

BC-454, 3 to 6 MC Receivers. SGR-283, Receiver-Transmitter Set

Includes a 4 tube, 25 watt, CW, MCW or VOICE Xmit.; 5 plug-in-coils; 6 tube TRF receiver; 6 plug-in-coils; control boxes; antenna relay; dynamotor; TM; etc.

BRAND NEW set \$25.00

BC-429, receiver of above set, 6 tubes, and 1 **only** coil set below. **USED**, excellent condition, \$5.00

BC-430, transmitter of above set, tubes, and 1 **only** coil set. **USED**, excellent condition, \$5.00

Plug-in-coil sets for above set. Single Rec'r Ranges 79¢ each

146-304 780-1635 4040-7880
 193-405 1535-3160 6480-12700
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Dual Rec'r Ranges \$1.00 each
 200-400 & 2470-4830, or 4100-7730

Transmitter Ranges 79¢ each
 980-1260 3200-4000 and
 1240-1520 4000-5000 6200-
 2500-3200 5000-62000 7700

BC-375, Air-borne Transmitters. 100 watt, CW, MCW or VOICE, 3 meters, 5 tube

No accessories or TU Included at this price. **USED**, perfect \$17.50

TU-7, 8, 9 & 10 Tuning Units for above. Valuable as salvage or base for Xmitter or VFO
BRAND NEW choice each \$1.85
USED, excellent each \$1.60



CS-48, wall case for TU above 40¢

BC-306, Antenna Loading Coil. Has 3 deck, 5 position RF switch; loading coil; velvet vernier; etc. Use to load 160 meter antenna. 2 dipole

BRAND NEW \$2.50 **USED**, good \$2.00

BC-306, Antenna Loading Coil. Has 3 deck, 5 position RF switch; loading coil; velvet vernier; etc. Use to load 160 meter antenna. 2 dipole

BRAND NEW \$2.50 **USED**, good \$2.00

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BRAND NEW \$2.50 **USED**, good \$2.00

BC-306, Antenna Loading Coil. Has 3 deck, 5 position RF switch; loading coil; velvet vernier; etc. Use to load 160 meter antenna. 2 dipole

HS-16A, TRIM 600 ohm, Headphones.



With headband, 6 foot cord, with phone tips. BRAND NEW each \$1.75

HS-30, low impedance, hearing aid, ear plug type phones. BRAND NEW each \$1.00

CD-604, cord & transformer to match above phones to hi-impedance output. BRAND NEW 50¢

SPECIAL, HS-30 & CD-604, both \$1.40

T-45, Lip Mikes. Anti-noise type.

Has breath shield, ear strap, 12" cord & PL-291. Carbon. BRAND NEW 50¢

CD-318, extension cord for T-45.

6' cord, with PL-68 & mate to PL-291, DPST press-to-talk switch. BRAND NEW each 50¢

T-17, single button carbon Mikes.

Cased, with 6' cord, PL-68 & DPST switch. USED, guaranteed 75¢

T-17B, as above, USED, " \$1.00

T-17D, as above, USED, " \$1.50

PE-94C, SCR-522, Dynamotor, 24v DC

input; 300v 260 MA & 14.2v 500 MA DC output. BRAND NEW each \$3.50

PE-101C, BC-645, Dynamotor, 12 or 24

v DC input; 400v 135 MA, 800v 20 MA DC, & 9v 12 A 80 cycle simultaneous output. BRAND NEW \$2.00

RF Coil Set for BC-455 receivers.

6 to 9 MC. Has antenna, RF & oscillator coils, on plug-in assembly. BRAND NEW, only a few at \$1.00

AN-104A, 2 meter mast antennas.

Broad band, covers 95 to 156 MC. Use as fixed or mobile installation. Limited supply BRAND NEW each 29¢

1 1/2 or 2 meter foundation kit.

Has a 10 MFD APC, acorn tube socket, 2 VHF RF choke etc. On clear plastic. 29¢

TERMS: All prices quoted are NET, FOB our warehouse, Chicago. All items are subject to prior sale. 20% minimum deposit with order, balance COD Illinois orders add 2% to cover sales tax. Write for FREE CIRCULAR.

TRANSFORMERS. All primaries 115v.



Sec. #1, 630v CT 84 MA
Sec. #2, 6.3v 2.3 Amp.
Sec. #3, 5.0v 2 Amp. \$2.75

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Sec. #2, 6.3v 4 Amp.

Sec. #3, 5.0v 2 Amp. \$2.75

Sec. #1, 250v DC 125 MA

Sec. #2, 6.3v 6.3 Amp.

Sec. #3, 5.0v 2 Amp. \$3.00

Sec. #1, 300v 100 MA 75¢

Sec. #1, 710v CT 150 MA

490v 1 1/2 MA tap \$2.50

OIL FILLED CONDENSERS. All cased.

| MFD | Volt | Price | MFD | Volt | Price |
|-----|------|--------|-----|------|--------|
| .2 | 5000 | \$1.50 | 6 | 600 | \$1.25 |
| 1 | 3600 | \$1.75 | 4,4 | 600 | \$1.25 |
| 4 | 1500 | \$2.25 | 4 | 600 | \$1.00 |
| 2 | 1500 | \$1.50 | 2 | 600 | 40¢ |
| 2 | 1000 | \$1.25 | 25 | 350 | \$3.00 |
| 8,8 | 600 | \$1.50 | 1 | 500 | 25¢ |

0-8 RF Ammeters. 2" round GE.

Flourescent. Removed from new equipment. GUARANTEED USED, perfect, each \$1.00

0-1, or 2 1/2 RF Ammeters. 2" round

Triplet. External thermo-couple included. BOXED. BRAND NEW each \$4.00

Cathode Ray Tube Specials.

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5/\$1.00 4/\$1.00 3/\$1.00

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12C8 2/\$1.00 955

864 VR-150 6C4

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2J32 \$15.00 2J36 \$25.00

QUAD ELECTRICAL SUPPLY, Inc.

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CHICAGO 47, ILLINOIS

INDIANAPOLIS EAVESDRIPPINGS . . .

By: Marge Bowman, XYL W9GLW

Well, did somebody finally make it?! That elusive DX Record on Two, I mean! 'Twasn't because the central Indiana gang wasn't trying, because the boys' activity is up 100%. We've heard 'em all, from W9JMS to W8CYE and W9EWO to W4FBJ, including even that "deserter" W9HNS.

Seems like that May 21st Terre-Haute "draft" - a'la Oklahoma - blew the boys back on the air with great gusto, instead of hurting them.

5/23: Wotta signal! W9WQA. No wonder; he's new and only a block away! But, where'd he go after this?

5/25: ASM AQQ LLA and APJ talking up 420 Mc. (W9PK please copy) and bemoaning the reported losses of DOK's and NSF's beams.

5/27: A nudder "desoiter", LWN on 10! Come back!

5/30: Have y'ever been in Speedway Aural on race day?! Errr! Static or Aurora rushes are music to the ears after this day.

6/1: Guess those "ducks", that Lew says "Ain't", are wokin', again: W9ASM, W4FBJ and W4MKJ bandying words on heard reports from San Antonio!

6/5: Someday, I'm gonna hear a record made. Potential one here: W4FBJ calling a W7! Yoicks! And, W4JDN, W9 ASM AQQ PEV and W4MKJ working madly.

6/11: A real fast talker, W9VY QSO with W9ASM.

6/12: Irresistable object: man on antenna tower. We stopped, investigated and found it to be Howard, instead of ASM, as we first thought. He provides "background noise" for ASM, 3 out of 5 nights. Howard, like others, finds 13 w.p.m. the stickler in ticket-getting! He SWLs on 2. I nearly drafted him as a "leg man" for this colyum!

6/13: Antennanews, tonight: EWO put his 16 elements up to 46 ft.; VNV has a "Quad"; NSF musta gotten repaired. W4FBJ reportedly heard in Massachusetts, cross-polarized. LLA AQQ PEV, and W4KLB also "populate". Along comes the "News" with the Uniject Beam; it looks about my speed! Wha' hoppen to W9JPK? How we miss the boy! To W5CWW:

W8CYE, W9ASM and EHX and others are on between 0700 and 0800, CDT.

6/14: W9LLA gets W4s CXC and FBJ; W9 JMS worked W8CYE and W9FZK. When Muncie comes thru, here, the band is open: that's our "dead spot".

6/20: AQQ on 6 and 2 calling a W5; GLW is putterin', again, so things'r comin' 2nd-hand.

6/24: ASM getting W9FKI; so are we, thanks to a new gadget! Yippee! LLA EWO JMS and W4FBJ also are cookin'.

6/27: ASM and W4FBJ still around, late, lookin' both north and south. So, wit' "Malice t'all 'n Charity fer none" I open my 3rd year on this rag - n' Happy Boithday t'youse, too! (Chee, 'tanks! - Editor.)

IN THE MAIL . . .

From Alice Bourke, W9DXK: "It would be a tragedy for the v.h.f. crowd if the 'News' were to fold up, and I hope all the gang realize this fact.

"You are putting out a publication which is just about perfect. It is informative, interesting, packed with valuable helps for the DX hound, and your skilled editing turns out reading copy which is bright, enjoyable and profitable to the v.h.f. gang.

"Thanks to your good XYL, the format is on a par with the content. Only somebody who has 'sweated' thru the repeated misery of producing such can realize the countless hours of work and drudgery connected with the monthly appearance of the 'News'. Too bad all your readers do not understand the 'inner workings' of the publishing game. If they did, I am sure the Franklin Park Postoffice would have to put on an addition to care for all the subscriptions and advertising . . ."

(Ed. Note: Thank you, Alice!)

SUBSCRIPTIONS NEEDED . . .

Thanks to W2NLY, W9NJT, W5DFU, W3RE, W4BYR, W8RW and several other fell-ows for recent help in getting new subscribers. Would you join them by asking your v.h.f. friends to subscribe? We want to keep going, and 600 new subscribers will help, a lot! If you want sample copies, let us know.

TELEVISION TRANSFORMERS!

Pr., 115v., 60 cycle. Sec. 850v.c.t., 150 ma. 520v.c.t., 150 ma., 6.3v., 8 amps, 5v., 3 amps, 5v., 3 amps, 5v., 3 amps. SPECIAL, \$7.95 FREE: Vertical scanning output transformer, 630 ohm primary; 8 ohm secondary; 10 to 1 ratio, with each purchase of the above special.

COME AND GET THEM, FELLAS!

POWER TRANSFORMERS AND CHOKES . . . Assorted quantities, large, medium and small ratings!

We've got to clean house! There are so many transformers and chokes that it is impracticable for us to list them, here. But, come to our store and take your choice - first come, first served - of what we have at **ONLY 35¢ PER POUND!!!**

MIDWEST VHF CLUB PICNICKERS!

Because many of you out-of-towners do not often get into Chicago, our store will be open for you from 9 AM to Noon, Sunday, July 31, so you can shop with us before the picnic gets rolling!

SPECIAL DISCOUNT!!

If you bring this advertisement with you, we will give you a 30% discount on any surplus item in our store!

AMERICAN SALES CO.

1811 W. 47TH ST. CHICAGO 9, ILL.

FULL-MOON FINDINGS IN FLORIDA

By: Frank Fassett, W4BYR

Findings, at W4BYR, now based on 12 months of observations and records, are that the Full Moon Theory is not entirely wishful thinking, at least not as far as this area is concerned.

Again, in June, we have had good openings occurring both at night and in the mornings from June 4 to June 8.

Records show openings occur either a few days before or following the Full Moon every single month. While I first thought that these openings were supposed to occur four days after full moon, most of them have occurred before the full moon date. Some openings have arrived as early as 5 or 6 days before, but they have always happened around full moon time.

Understand, when no hams were on, I have used police, Navy, taxicab and mobile telephone signals, originating from land-stations 80 to 205 miles away; no airborne signals entered into the observations. The vhf commercial frequencies have been correlated with 144 Mc., so that when the 152-162 Mc. band was open, the 144-148 Mc. band was open, too.

I still don't know about the horizontal vs. vertical situation, but I surely am sold on the full-moon effect from my own experience.

Florida Activity

IQV is on in Lake City and is working EID and RU in Jacksonville and NEE in Orlando. NEE QN and MSX are on in Orlando, HAD in Sulphur Springs, LAW, Tampa; AYX, Clearwater; RQ, Largo; LPC and KQR, St. Petersburg; and W4BYR, Lake Placid. Most of these are QSOing all others. Average distances are from 85 to 100 miles.

The Florida Two Meter DX Record is now held by W4NEE and W4VV. The Orlando-Miami hop is about 200 miles, 30 miles better than the former record path from Sulphur Springs to Jacksonville.

BYR worked VV, over a 125 mile path, for the first time. HAD, next? In the Miami area, VV and BI are running 400 watts, with beams. FWI IPW FLW and ITE are also active. LIP is expected on with 16-elements. Florida is alive!

TWO METERS IN TENNESSEE

By: Paul Wilson, W4HHK

Ever since May 17th, the old two-meter band has really taken on a new look! DX contacts have been flying left and right, and some "firsts" have added to the excitement.

Since May 17th, contacts have been made with W5NYH, Lexington, Mississippi, daily, at 145 miles from W4HHK. Almost as often, contacts have been held with W5JTI and FFF, Jackson, Mississippi, 190 miles. W5NYH and W4HHK have maintained daily skeds, as many as 3 a day; contacts have been made under all kinds of conditions - clear, hot days, rain, strong winds, cloudy, high-pressure, low-pressure.

W4EYN and W4OTJ, Memphis, have also worked the Mississippi boys on horizontal, of course. W5NYH runs 39 w. input and uses a 4-element Yagi only 20 ft. high. W5JTI, Jackson, runs 150 to 200 w. input to p.p. 24Gs and airs it with a 16-element beam about 35 feet high. W5FFF has about 80 w. input and has a beam about 100 ft. high.

W5NLP, Jackson, Miss., is very active with a 522 transmitter and receiver and a 4-element in the attic.

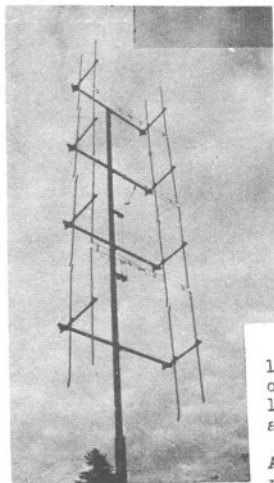
On the night of June 15, W0ZIS, St. Louis, Mo., was worked by W4HHK on 2. C.w. was used, first; then phone; then both. W0ZIS was first heard at about 2121 CST, but 2-way contact was not established until approximately 2151 CST. C.w. was solid, most of the time. A few voice transmissions also got through. W4OTJ, Memphis, heard 0ZIS but no contact was made, as far as we know. A quick check in back issues of "The VHF News", "QST" and "CQ" fails to show a previous Missouri-Tennessee contact on 2. Was this the first? (We think so.- Editor.) W5JTI and W5NYH were alerted for W0ZIS, but they were unable to hear him.

On the night of June 16, a whopper of an opening brought contacts between so many stations that we could keep track of only our own. On c.w., W0KYF, St. Louis; W0EQA, Des Moines, W0NEM, Solon, Ia., W9UED, Illinois (cw/fone), were worked. The W0EQA, 425 mile, contact is believed to be the first Iowa to Tennessee on two.

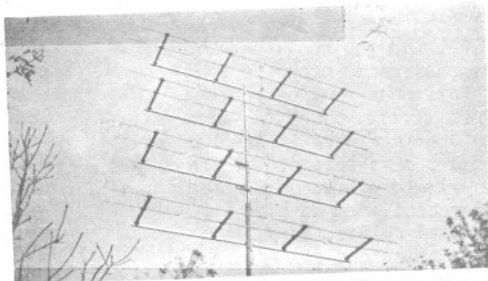
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Vertical and Horizontal 16 and 32 Element
TWO METER BEAMS for 1949



16 Element Vertical



32 Element Horizontal

16 element two meter beams, power gain 40 over dipole, only ten lbs., only \$35; 32 el. beams, power gain up to 127 over dipole, only \$60. $\frac{1}{4}$ wave shorted transformer allows use of any line from 50 to 600 ohms.

Above are delivered prices, shipped Railway Exp., prepaid, in shipping tubes. Please state polarization desired.

Also, 3, 4, 5 and 8 el. ten meter beams, wide spaced, and wide-spaced 20 meter beams. Also 8 to 32 el FM and TV beams. Send for folders on same.

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