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FRONT VIEW

Results, CQ's Second World-Wide DX Contest

LARRY LeKASHMAN, W2IOP*

The report on the final results of the biggest DX Contest in amateur history is just too big for a single issue of CQ. Here's the first half of the results—the rest will appear next month.

CQ's SECOND WORLD WIDE DX CONTEST exceeded the first successful event by a smashing 100% despite severe ionosphere storms during most of the radiophone weekend. In some parts of the world atmospheric disturbances were also raising havoc during the c.w. weekend of competition. Entries were received from over 1000 c.w. stations and from 450 radiophone stations competing. Spot checks of the logs of both c.w. and phone contestants indicate at least an equal number of participating stations that did not submit logs. Thus CQ's DX contest is well on its way to becoming the leading DX activity of the year.

CQ's Second World Wide DX Contest departed radically from previous competitions of this type by permitting entries for single bands, as well as an "open," or "all-band" competition. Experimentally, 80 meters was dropped from the contest. Indications are that most contestants favored the use of the three principal DX bands, although there is continued agitation not to abandon 3.5 mc, since it is useful as a DX band when properly employed. What is done in the forthcoming 1950 event will depend upon the decision of CQ's DX Committee, to meet in session shortly.

A word about the method of listing the scores. Many DX men requested that we give a complete breakdown on all scores, i.e., total number of contacts, countries and zones. We were fully prepared to do this extensive bookkeeping task when we discovered a grievous error of omission on our part. On the special contest log sheets sent out, there were boxes provided for totaling scores. The boxes for total scores had provision for number of contact points, but not for the actual number of contacts (a factor which actually doesn't figure in the score). In instances where the score was submitted for one band only, operators did fill in the line asking for total number of contacts in the recapitulation paragraph. However, wherever a log covered more than one band, to list total QSOs for each band in the final tabulations we would have had to individually count the contacts-per-band in

by far the greatest majority of logs submitted. Since we couldn't possibly handle that detail, only the winning *all-band* scores show the number of contacts, as well as all other pertinent data. Next year we'll straighten out the form and each log sheet will have the necessary space. The published summaries will contain zones, countries, and contacts.

Highest single-operator score reported in the world was that of the well-known Dutch DX man PAØUN using nothing more than 100 watts into a pair of 807's and standard communication gear all the way. For antennas PAØUN used 3-element rotaries on 20 and 10; two half-waves in phase on 40. This sterling performance represents operating techniques gath-

ered through years of operating on all the DX bands.

Second highest score in the world, and leader in the United States is W4KFC. W4KFC is another station where the only fancy operating aid is the operator himself. 700 watts, BC-348, a Gonset Converter for 10, 2 elements on 10 and 20, and 138' end feed 40 meter wire comprise his entire setup. Says Vic, "Same XYL as last year, alarm clock—lots of coffee." He raises an interesting point. With 80 out of the test, the east coast boys jam up 40 and ruin the west coast shot at Europe. Higher east coast scores confirm this, and east coast DX men take full advantage of greater activity in Europe than any other continent.

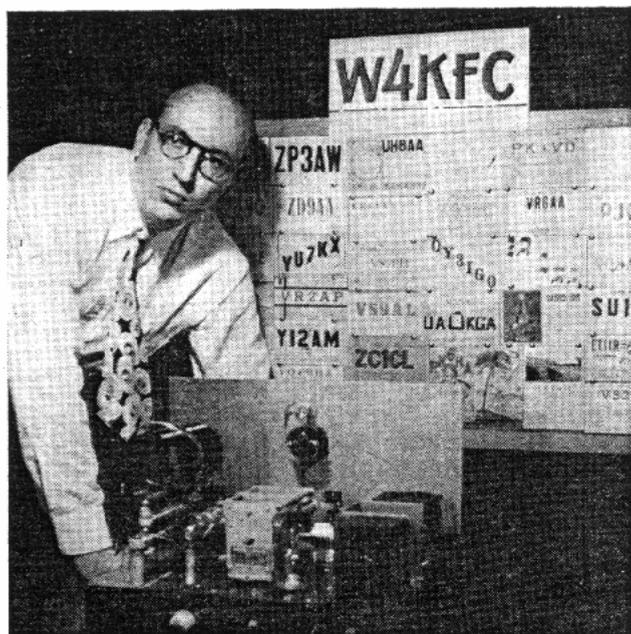
Just less than two thousand points separates W8JIN another experienced DX man, whose final score was 308,180, and who further emphasizes the fact that there is no substitute for experience. An interesting point raised by W8JIN is the controversy about optimum beam height. Raising his 14-mc rotary to 66 feet made a noticeable difference over last year's performance. HRO, PP-250TH, 10-meter 4-element wide spaced rotary and a 7-mc half-wave vertical complete W8JIN's layout.

What would a contest be without ZL1MB whose 304,560 points placed him among the world leaders and far ahead of his nearest national competitor. ZL1MB uses a 277' Vee beam and 8-section Sterba, plus other assorted wires to help his 100



PY2CK led the world with the highest phone score in the contest—224,349 points.

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W4 KFC ran up the highest c.w. score in the U.S.A., and the 2nd highest c.w. score in the world—310,184.

watts. In cross-checking U.S. logs, ZL1MB's reports were consistently outstanding on all bands. ON4QF is practically standing on the same spot with his 302,994 points. As ON4QF puts it, "Very beautiful and interesting contest." Mick ran 40 to 60-watts input plus a 360' long wire, among other antennas. ON4QF reported erratic conditions throughout the contest, although his score doesn't reflect them. Among the other outstanding scores reported were those of:

| | | | |
|-------|---------|-------|---------|
| KH6IJ | 292,734 | VK2EO | 228,200 |
| W3LOE | 289,120 | W9IU | 224,425 |
| KG6DI | 281,780 | CX3CS | 211,420 |
| CE3AG | 249,480 | OK1HI | 202,764 |
| GW3ZV | 231,846 | | |

As usual KH6IJ's score is in the top bracket and his 702 contacts represents one of the outstanding performances numerically. Oddly enough, KV4AA had 760 contacts but couldn't get the multiplier necessary for one of the high scores because of the large number of Americans desiring contact. This is true for a number of other outstanding operators including EK1AO with 510 contacts, and KL7PJ with 508.

KG6DI, in setting out for new records, comments on the handicap he faced (and presumably other DX stations) by insufficient savvy on the part of the Ws. He could work stations faster than they were returning, and often a station receiving an S9 report would slow down and repeat everything twice. Conditions, no matter how bad elsewhere, seem to hold up in the Pacific and KG6DI is raring for the next one. His hot band was 10!

W3LOE is more than an outstanding operator, he is an outstanding designer of equipment and his station is unusual in that he uses separate homemade superhets for 10, 20, and 40. They work too . . . as does his kw feeding rotaries and a 2-element colinear fixed beam on 40. CE3AG used a kw into a 304TH final, 75A receiver and 3-element beams plus a doublet.

GW3ZV, another perennial appearing on logs galore, recommends still greater publicity, despite the fact that this year over 100 countries were active. To follow up the suggestion, logs are going to be made available from a central source in each

major country and notices will be circulated to all foreign societies and publications several times before the next contest. Behind GW3ZV's signal are PP 807's, homemade super with full break-in, 7-mc Vee beam, rotaries on 20 and 10, long wire on receiver. The electronic key is to avoid fatigue.

CX3CS, operated by the extremely well known DXer CX2AJ, had one of the outstanding S.A. signals, verified by his score. Like many DX entries, his log shows a tremendous preponderance of U.S. contacts, even when conditions favored other continents. W9IU's sterling all-band performance indicated more QSOs on 10 than any other band. VK2EO ran 100 watts into 3-element beams on 20 and 10; 136' end feed were on 40.

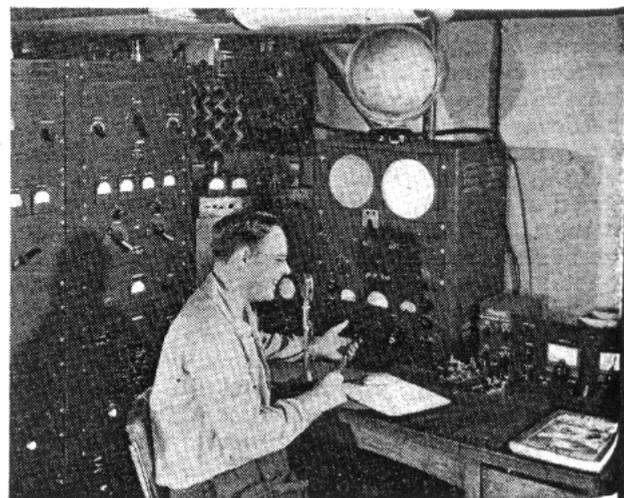
OK1HI's 202,764 points is one of the highest low-power scores, 60 watts input to a single wire did the trick.

The conspiracy against the phone men continues, with the band reflecting some of the year's worst conditions. Scores ran higher than the previous contest only because of greater activity and a DX gang that was evidently prepared for the worst and concentrated on the few paths relatively stable. As HK4AR put it, "A swell contest. Too bad the bands did not cooperate."

No close race developed for top honors among the phone men. PY2CK ran away with his 224,349 points. Aided by favorable propagation conditions and some adroit operating this remarkable score represents 396 contacts in 80 different countries. PY2CK operates with a full kw, NC 2-40D, rotaries on 20 and 10, and a preselector.

Europeans stand out with the next highest scores and they really sweated out most of their contacts. G2DPZ with 153,642 points; HB9DS 145,410; OH2NB 132,191; LA7Y 127,684; I1RB 124,026 points. G2DPZ, one of 1948's top men repeated his outstanding performance with 150 watts, HQ-129, R9er, rotaries on 10 and 20, and a half-wave on 40. Again the Europeans made good use of 40-meter phone working as high as 25 countries in four continents on that band.

HB9DS used a maximum input of 57 watts. Kurt's station is one of the most remarkable pieces of home construction ever seen and portions of his station will be described in articles scheduled to appear in CQ. His beam is a 4-element rotary continuously adjustable with collapsing elements for 10, 15, and 20. A gang-tuned rig and 14 tube dual conversion superhet have the detail of a fine Swiss



CQ's own Contributing Editor, W3LOE, with his 100% home-built station led phone and c.w. gangs in W

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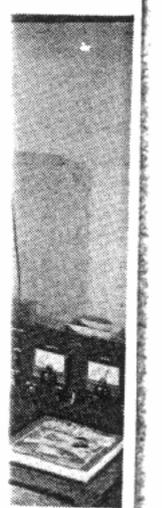
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watch. And the precision carries into the operating habits. Details on OH2NB's station were not received, but his outstanding signal over the all-but closed Northern path attest to its potency. LA7Y, equally well known as a c.w. operator showed his versatility. His score was made with 50-watts input, AR-88 and a 2-element beam. I1RB ran 100 watts into a dipole on 10 and 20 and turned in a log with some of the nicest catches in the contest.

Highest American score was turned in by W1ATE whose 83,664 points represent 221 QSOs with 60 different countries and 28 zones. Chad used a Collins 32V-1 driving a pair of 250THs at a full kw, Collins 75A-1 receiver; switchless 4-element 20-meter rotary on 20, 8-elements on 10, both 80' high. Chad, like many other contestants did not know the FCC ban on certain areas had been lifted with result he passed up a number of countries. It is an inequality that just can't be compensated for, unfortunately.

In the phone contest, because of the natural inclination to stick to bands best known, many of the single band scores were higher than the winning all-band entries. It is particularly interesting to note that in many instances all-band entry winners were beaten on single bands by "specialists."

Miscellaneous

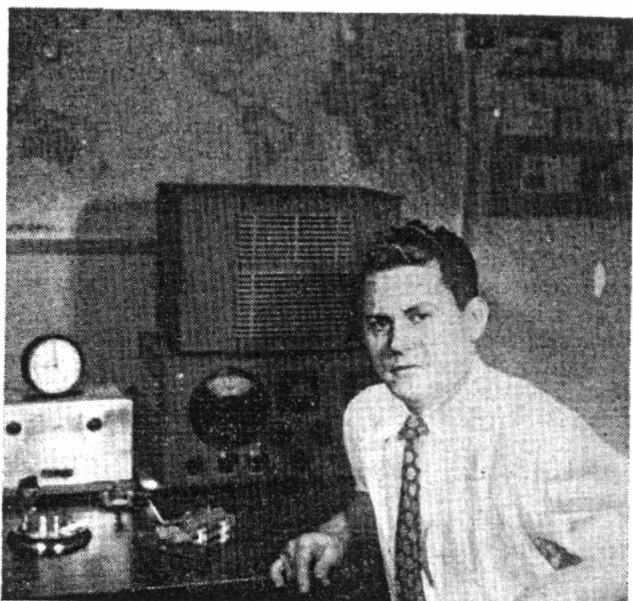
It is the bitter truth, but average power of the U.S. winners was close to a kw. With DX, it is over 100 watts indicating a definite trend to higher power on the part of foreigners. Another noticeable trend among the outstanding DX men is the use of converters on standard communication receivers to get optimum performance on 10 and 20.

KZ5WZ, in a magnanimous gesture, lists W6QD as one of the outstanding signals there. Wally thinks the choice of dates might be improved to find better conditions. MP4BA was a new one for many DXers. GM3AXR, with over 50,000 points, had the highest GM score. Most remarkable is the fact that his 100-watt station is powered entirely by 12 volt d.c. from batteries and gas generator. Battery operated HRO, 420' longwire EW and 690' longwire NS did the trick. Those long wires practically put him into U.S. territorial waters.

W6PQT, in voicing his approval of single-band competition for land-bound city dwelling hams, also urges a committee to try and determine optimum weekends for the contest. As one suffering



HK4AR, winner for Columbia and Zone 9, with a score of 73,932. That Panadaptor must have been a big help in locating the holes in the bands.



F9QU/FM8, whose activity was limited, but who managed to give many of the gang another rare country.

DX man put it, "Make it the one when the XYL is away." W9CIA resolves solemnly, no more medical operations before a DX contest. Wire must be cheap in some towns . . . at Carnegie Tech's Radio Club, W3NKI operated by W2CDW, they have a 500' long wire. G4CP emphasizes the clean operating by practically everyone, a comment echoed by many entrants. GM3AXR, and others, suggest two periods of 24 hours instead of one period of 48 hours. Like many DX men he finds it difficult to get free for two full days.

W6ALQ, entering his first DX contest in 19 years, says he learned a certain "new technique" of DX operating. On most logs a patient XYL rates as the number one operating aid! KL7UM, "Well planned contest. Certainly makes all other DX contests seem to be a waste of time." He is for the status quo on rules. W8SDR, not a full fledged competitor, worked a new country and gets a vote of thanks from the contest compilers—along with others like him—who sent in a log for checking. W6OMC, out for new countries only, threw his rig into high gear when a casual check indicated that he was ahead of his half-way mark of last year when he was bearing down. Proof positive that it is going to be a bigger and better contest every year.

G3DO comments that the outstanding signals at his shack during the contest were ZL4HP and ZS6JS. How about some of these phone morsels . . . VQ8AX, XZ2SY, FQ8SN, M1B, VU2BL, FF8PG, ZD2S . . . did you work 'em? CR5UP had the DX men in a tizzy . . . TI2HP, commenting on their very active representation in the contest says the average power in Costa Rica is 800 watts. W5LVD, and lots more, spent their last nickel buying a beer to cry into. He passed up XZ, VQ8 because of the original FCC ban. They didn't know it had been lifted. W4TO, way down Ga. way worked hard to add new ones and came up with nothing better than Zone 3. KZ5WZ used a 10-meter vertical on 40. From CZ, outstanding signals reported were W2ZY, W3LOE, W6GRL, W6TZD, W6OMC, and VE4RO. W2ZY should serve as a case for the despairing DX men. He uses nothing more than a Collins 32V-2 and an indoor dipole for 10 and 20, with the feeders tied

together for 40. F9QU/FM8, reporting on his contest activities, details his station which is keeping Martinique well represented, with a chance to receive QSLs. He is Assistant Port Captain for the French Line Steamship Company, uses 100 watts on 10 and 20, SX25, 20-meter doublet, 10-meter rotary.

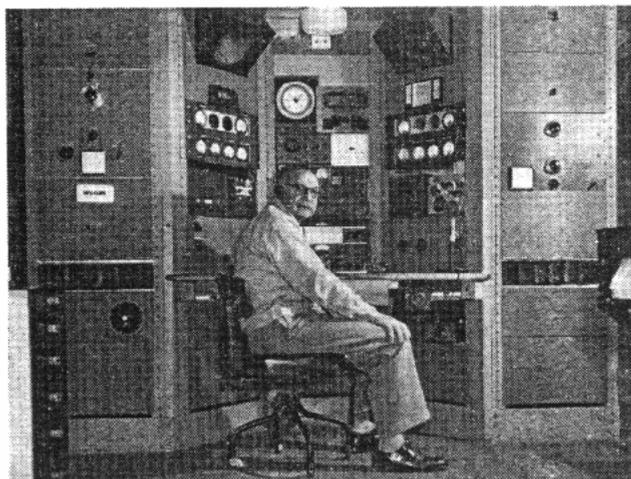
VQ4CUR, operating portable in Zanzibar especially for the contest, is one of this year's heroes. Only 220 v. d.c. was available, so Harry took a complete military installation, battery operated. The trip was made by air and 6 fully charged batteries were available during the test. Harry is a regular Army man, with 27 years in the service and has visited 87 different countries. He'll be back in England this winter and DX men should be sure to say hello and thanks to G2CUR.

How do they do it? For example, VK4RC with an 807 and a 33' vertical for transmitting and a 14-mc folded dipole for receiving, still managed to tear through for 56,000 points.

The Winners!

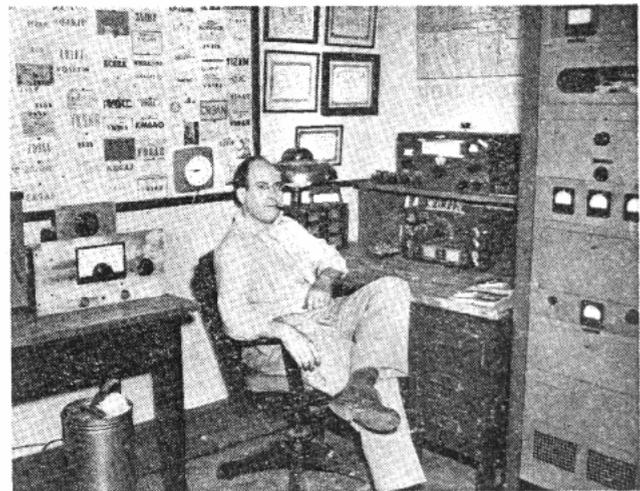
All Band, Single Operator, C. W.

| Zone | Station | Total Countries | Total Zones | Total QSOs | Points |
|--------|---------|-----------------|-------------|------------|---------|
| Zone 1 | KL7PJ | 58 | 41 | 508 | 75,735 |
| Zone 3 | W6GRL | 192 | 69 | 354 | 190,080 |
| | W7IRZ | 32 | 29 | | 11,041 |
| Zone 4 | W4KVB | 128 | 68 | 317 | 172,466 |
| | W5LVD | 203 | 65 | 257 | 107,688 |
| | W8JIN | 172 | 80 | 417 | 308,180 |
| | W9IU | 129 | 62 | | 224,425 |
| | W0DAE | 117 | 59 | | 147,136 |
| | VE3IJ | 77 | 43 | 171 | 51,960 |
| | VE5QZ | 54 | 39 | 153 | 32,922 |
| | VE6AO | 37 | 30 | | 15,544 |
| Zone 5 | W1RY | 107 | 56 | 269 | 117,034 |
| | W2QCF | 105 | 54 | 270 | 128,790 |
| | W3LOE | 182 | 78 | 384 | 289,120 |
| | W4KFC | 158 | 74 | 490 | 310,184 |
| | VE1EA | 43 | 25 | | 16,660 |
| | VE2NI | 63 | 31 | | 43,052 |
| | VE3AEJ | 6 | 5 | | 198 |
| Zone 7 | W8AZD | 80 | 48 | 205 | 75,856 |
| | KZ5DE | 32 | 16 | 370 | 49,322 |
| | KS4AC | 21 | 18 | 288 | 12,207 |
| Zone 8 | HP1BR | 38 | 34 | 119 | 13,248 |
| | KV4AA | 72 | 41 | 760 | 105,203 |
| | KP4JE | 26 | 18 | 134 | 15,200 |



Doc Stuart, at W6GRL, ran up the second-highest U.S. phone score.

| Zone | Station | Total Countries | Total Zones | Total QSOs | Points |
|---------|------------|-----------------|-------------|------------|---------|
| Zone 10 | HC2JR | 75 | 49 | 606 | 221,960 |
| Zone 11 | PY2NX | 53 | 36 | | 72,090 |
| Zone 12 | CE3AG | 104 | 61 | 520 | 219,480 |
| Zone 13 | CX3CS | | | | |
| | (CX2AJ op) | 61 | 49 | | 211,420 |
| | LU7CD | 47 | 31 | | 55,770 |
| | VPSAI | 22 | 21 | | 16,296 |
| Zone 14 | DL7AA | 90 | 50 | | 120,300 |
| | G4CP | 97 | 59 | 342 | 147,888 |
| | PA0UN | 133 | 65 | | 343,728 |
| | LA6U | 73 | 33 | | 71,171 |
| | EA1AB | 44 | 18 | | 42,842 |
| | OY3IGO | 2 | 3 | | 300 |
| | OZ7EU | 68 | 32 | 215 | 42,000 |
| | ON4QF | 125 | 61 | 612 | 302,994 |

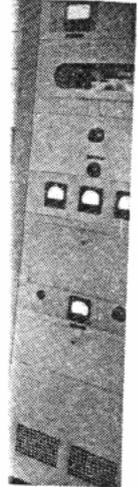


W8JIN worked 38, count 'em, Zones on 14 mc, to end up with the 3rd highest c.w. score in the world.

| | | | | | |
|---------|--------|-----|----|-----|---------|
| | F9BO | 81 | 46 | | 62,992 |
| | SM6ID | 47 | 22 | | 28,221 |
| | GM3AXR | 77 | 47 | 177 | 50,344 |
| | GW3ZV | 122 | 50 | | 231,846 |
| | HB9DZ | 42 | 30 | 152 | 26,424 |
| | LX1AS | 23 | 14 | | 8,695 |
| | EA6AF | 48 | 20 | | 34,816 |
| | EI9J | 49 | 30 | 362 | 66,913 |
| | GC2CNC | 48 | 13 | | 15,311 |
| Zone 15 | OE1CD | 73 | 39 | | 36,064 |
| | OK1HI | 124 | 59 | | 202,764 |
| | HA4SA | 96 | 37 | 284 | 61,180 |
| | OH5NF | 67 | 29 | | 35,616 |
| | ZB1AJ | 28 | 11 | | 3,042 |
| | I1PL | 88 | 44 | | 119,860 |
| | IS1FIC | 18 | 9 | | 1,080 |
| Zone 20 | SV0WH | 36 | 22 | 88 | 11,600 |
| | YO3RI | 82 | 37 | | 77,945 |
| | 4X4RE | 83 | 38 | | 138,061 |
| Zone 21 | AP5B | 37 | 26 | | 15,183 |
| | VU2JP | 57 | 22 | 133 | 31,205 |
| Zone 24 | CR9AG | 78 | 46 | 420 | 153,760 |
| | VS6AE | 38 | 26 | | 16,960 |
| Zone 25 | JA2BQ | 46 | 41 | 223 | 55,071 |
| Zone 27 | KG6DI | 88 | 58 | 644 | 281,780 |
| Zone 28 | VS2BD | 38 | 23 | 143 | 23,058 |
| | PK3LC | 80 | 63 | | 55,913 |
| Zone 29 | VK6RU | 82 | 46 | 231 | 88,704 |

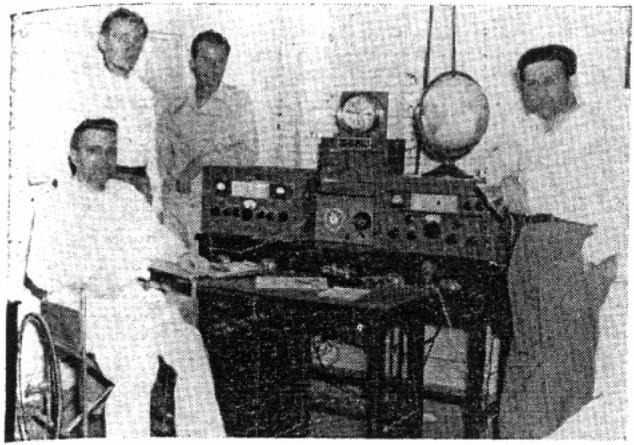
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The gang at multiple-op HC2JR. L. to r., HC2JR, HC1MK, HC2IH, and HC1AZ.

| Zone | Station | Total Countries | Total Zones | Total QSOs | Points |
|----------------------------------|---------|-----------------|-------------|------------|---------|
| Zone 30 | VK2EO | 105 | 58 | | 228,200 |
| Zone 31 | KH6IJ | 83 | 56 | 702 | 292,734 |
| Zone 32 | ZL1MB | 86 | 55 | | 304,560 |
| Zone 33 | EK1AO | 92 | 35 | 510 | 192,786 |
| | CNSAG | 24 | 11 | 116 | 12,110 |
| | FASDA | 74 | 27 | | 64,337 |
| Zone 34 | ST2TC | 22 | 13 | 86 | 8,330 |
| Zone 36 | OQ5BQ | | | 252 | 60,900 |
| | VQ2GW | 21 | 17 | 112 | 11,096 |
| | FESAB | 78 | 43 | 512 | 173,756 |
| Zone 37 | VQ1CUR | 30 | 17 | 184 | 23,876 |
| | VQ4HJP | 98 | 54 | | 190,608 |
| Zone 38 | ZS5LI | 66 | 41 | 303 | 94,160 |
| Zone 39 | VQ8AY | 19 | 16 | | 6,020 |
| Zone 40 | TF3EA | 76 | 34 | 333 | 93,390 |
| All Band, Single Operator, Phone | | | | | |
| Zone 1 | KL7UM | 24 | 14 | 69 | 5,472 |
| Zone 3 | W6GRL | 77 | 46 | 155 | 49,077 |
| | W7HRH | 15 | 15 | | 1,440 |
| | VE7HC | 49 | 28 | 162 | 25,333 |
| Zone 4 | W4DQH | 76 | 47 | | 14,525 |
| | W5HFQ | 29 | 20 | 48 | 6,370 |
| | W8NXP | 78 | 39 | 108 | 31,824 |
| | W9EWC | 70 | 44 | | 30,894 |
| | W0GUV | 34 | 25 | | 6,018 |
| | VE3QE | 23 | 13 | | 3,708 |
| | VE4RO | 49 | 41 | | 19,620 |
| Zone 5 | W1ATE | 94 | 50 | 221 | 83,664 |
| | W2BXA | 50 | 24 | | 27,454 |
| | W3LOE | 91 | 45 | | 47,056 |
| | W4OM | 51 | 26 | 150 | 31,878 |
| | W8AVW | 12 | 8 | | 920 |
| | VE1CR | 53 | 30 | | 24,402 |
| Zone 7 | TI2HP | 71 | 41 | 184 | 40,880 |
| | YS1JR | 17 | 17 | | 3,672 |
| | HP1LA | 28 | 25 | | 17,649 |
| Zone 8 | CO7RQ | 21 | 18 | | 8,463 |
| | VP2GG | 12 | 10 | | 1,034 |
| Zone 9 | HK4AR | 62 | 39 | 260 | 73,932 |
| | YV5AC | 53 | 33 | | 29,068 |

| Zone | Station | Total Countries | Total Zones | Total QSOs | Points |
|---------|-----------|-----------------|-------------|------------|---------|
| Zone 10 | HC2KJ | 47 | 30 | 140 | 28,875 |
| | CP5FA | 19 | 17 | | 4,392 |
| Zone 11 | PY2CK | 123 | 58 | 396 | 224,349 |
| Zone 12 | CE2DY | 24 | 18 | 91 | 9,366 |
| Zone 13 | LU8CW | 53 | 37 | 115 | 25,380 |
| | CX3BH | 41 | 32 | | 12,400 |
| Zone 14 | G2DPZ | 120 | 54 | 338 | 153,642 |
| | ON4AZ | 7 | 5 | | 156 |
| | GW2UH | 24 | 12 | 61 | 3,780 |
| | HB9DS | 124 | 61 | 333 | 145,410 |
| | EA4LA | 39 | 22 | 166 | 28,121 |
| | F9BO | 70 | 23 | 115 | 24,786 |
| | LA7Y | 88 | 49 | 402 | 127,684 |
| | SM4KP | 64 | 20 | | 25,192 |
| | CT1FM | 36 | 14 | | 12,600 |
| | DL3DO | 87 | 48 | | 80,730 |
| Zone 15 | IIRB | 103 | 45 | | 124,026 |
| | OK2SO | 50 | 25 | | 18,750 |
| | OH2NR | 90 | 46 | | 132,191 |
| | IIRC | | | | |
| | (Trieste) | 32 | 15 | | 14,006 |
| | ZB1AJ | 25 | 8 | | 2,112 |
| Zone 20 | ARSAB | 17 | 10 | | 2,241 |
| | YO3RI | 30 | 9 | | 3,510 |
| | 4X4AA | 74 | 37 | | 60,939 |
| Zone 22 | VS7GR | 21 | 13 | | 3,638 |
| | AP5B | 37 | 26 | | 15,183 |
| Zone 24 | VS6AE | 15 | 11 | | 1,144 |
| Zone 28 | VS2BD | 20 | 19 | | 2,196 |
| | PK4DA | 23 | 16 | 39 | 9,243 |
| Zone 29 | VK6KW | 60 | 40 | 186 | 55,200 |
| Zone 30 | VK3VQ | 26 | 24 | | 4,750 |
| Zone 31 | KH6IJ | 52 | 44 | 311 | 89,568 |
| Zone 32 | ZL4HP | 64 | 38 | | 96,288 |
| Zone 33 | FASIH | 68 | 37 | | 37,065 |
| | CNSBV | 38 | 18 | | 20,944 |
| Zone 36 | VQ2DII | 63 | 37 | 218 | 60,300 |
| | FQ8SN | 22 | 17 | 48 | 5,304 |
| | CR5UP | 70 | 34 | 237 | 64,168 |
| | OQ5BQ | 51 | 22 | | 24,642 |
| Zone 37 | VQ4SC | 80 | 44 | | 55,056 |
| | MI3SC | 58 | 33 | 426 | 25,791 |



CE3AG delivered the highest South American c.w. score, with 249,480 points.

| Station | Total Countries | Total Zones | Total QSOs | Points |
|---------------|-----------------|-------------|------------|--------|
| Zone 38 ZS6TE | 67 | 42 | 210 | 63,547 |
| ZS3G | 25 | 17 | | 20,412 |

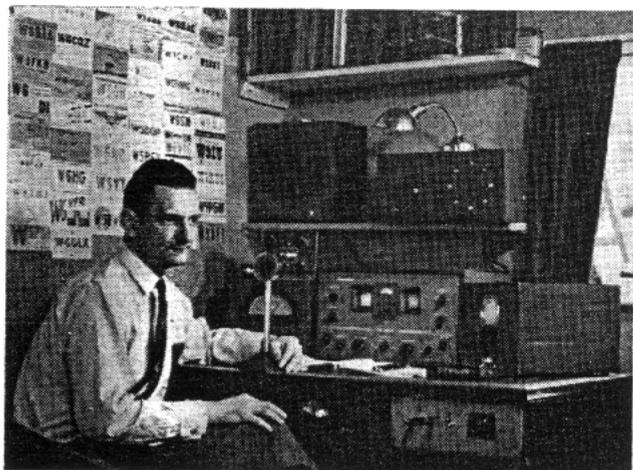
Single Band, Single Operator, C. W.

| Station | Band | Total Countries | Total Zones | Points |
|--------------|-------|-----------------|-------------|--------|
| Zone 1 KL7RZ | 7 mc | 6 | 6 | 708 |
| KL7UM | 14 mc | 52 | 25 | 47,047 |
| KL7PJ | 28 mc | | | 9,600 |
| VESAS | 14 mc | 21 | 15 | 6,472 |
| Zone 2 VO6X | 14 mc | 40 | 19 | 43,424 |
| Zone 3 W6AM | 7 mc | 24 | 20 | 8,932 |
| W6PQT | 14 mc | 74 | 35 | 71,504 |
| W6WJX | 28 mc | 29 | 17 | 9,568 |
| W7LNG | 7 mc | 6 | 6 | 156 |
| W7ASG | 14 mc | 52 | 28 | 20,440 |
| W7IRZ | 28 mc | 22 | 20 | 5,717 |
| VE7VC | 7 mc | 15 | 16 | 2,852 |
| VE7KC | 14 mc | 39 | 26 | 16,705 |
| VE7MS | 28 mc | 52 | 27 | 20,066 |
| Zone 4 W4PN | 14 mc | 56 | 27 | 29,382 |
| W4CYC | 28 mc | 42 | 23 | 27,105 |
| W5JC | 7 mc | 61 | 28 | 16,376 |
| W5KC | 14 mc | 44 | 25 | 14,007 |
| W5KC | 28 mc | 31 | 18 | 7,742 |
| WSWZ | 7 mc | 49 | 25 | 26,176 |
| WSJIN | 14 mc | 51 | 23 | 78,232 |
| WSBTI | 28 mc | 42 | 21 | 21,546 |
| W9DUY | 7 mc | 14 | 13 | 1,134 |
| W9DUY | 14 mc | 90 | 39 | 82,173 |
| W9LM | 28 mc | 43 | 22 | 23,725 |
| W0DAE | 7 mc | 11 | 11 | 1,100 |
| W0DAE | 14 mc | 66 | 27 | 37,293 |
| W0DAE | 28 mc | 40 | 21 | 23,485 |
| VE3ACS | 7 mc | 25 | 14 | 6,630 |
| VE3IJ | 14 mc | 52 | 24 | 24,624 |
| VE3BTG | 28 mc | 27 | 15 | 6,636 |
| VE4IJ | 28 mc | 22 | 20 | 2,604 |
| VE5QZ | 7 mc | 3 | 4 | 63 |
| VE5QZ | 14 mc | 36 | 23 | 15,930 |
| VE5QZ | 28 mc | 15 | 12 | 2,025 |
| Zone 5 W1ZL | 7 mc | 28 | 14 | 8,568 |
| W1JYH | 14 mc | 66 | 31 | 34,823 |
| W1RY | 28 mc | 36 | 19 | 17,875 |
| W2AGO | 7 mc | 42 | 21 | 15,876 |
| W2UFT | 14 mc | 79 | 33 | 71,008 |
| W2KUW | 28 mc | 44 | 22 | 30,162 |
| W3LOE | 7 mc | 40 | 21 | 11,346 |
| W3LOE | 14 mc | 100 | 36 | 75,136 |
| W3JKO | 28 mc | 48 | 24 | 40,248 |



11RB led the Zone 15 phone gang with a score of 124,026.

| Station | Band | Total Countries | Total Zones | Points |
|---------------|-------|-----------------|-------------|--------|
| W4BRB | 7 mc | 49 | 23 | 31,392 |
| W4KFC | 14 mc | 73 | 33 | 66,992 |
| W4KFC | 28 mc | 44 | 21 | 30,615 |
| VE1IM | 7 mc | 8 | 4 | 420 |
| VE1EA | 14 mc | 32 | 17 | 9,163 |
| VE1KN | 28 mc | 22 | 10 | 2,976 |
| VE2NI | 7 mc | 3 | 3 | 54 |
| VE2BW | 14 mc | 63 | 31 | 43,052 |
| VE2NI | 28 mc | 22 | 9 | 7,409 |
| WSAZD | 14 mc | 41 | 25 | 15,708 |
| WSAZD | 28 mc | 39 | 23 | 21,018 |
| Zone 7 KS4AC | 7 mc | 3 | 3 | 132 |
| KS4AC | 14 mc | 7 | 6 | 1,573 |
| KS4AC | 28 mc | 11 | 9 | 3,400 |
| HP1BR | 7 mc | 4 | 5 | 171 |
| HP1BR | 14 mc | 23 | 18 | 4,100 |
| HP2RO | 28 mc | 34 | 20 | 32,724 |
| VP1AA | 14 mc | 5 | 6 | 902 |
| Zone 8 CO2LN | 7 mc | 5 | 5 | 340 |
| KP4KD | 14 mc | 37 | 21 | 9,222 |
| KP4JE | 28 mc | 11 | 9 | 3,460 |
| Zone 10 OA4J | 14 mc | 10 | 10 | 5,040 |
| Zone 11 PY2NX | 14 mc | 21 | 14 | 4,305 |
| PY2NX | 28 mc | 32 | 22 | 37,098 |
| Zone 12 CE3AG | 7 mc | 13 | 12 | 4,650 |
| CE3AG | 14 mc | 58 | 32 | 73,620 |
| CE3AG | 28 mc | 33 | 17 | 25,400 |
| Zone 14 DL1YA | 7 mc | | | 1,380 |
| DL3DU | 14 mc | 60 | 26 | 39,130 |
| DL1FI | 28 mc | 26 | 26 | 24,128 |
| G4CP | 7 mc | 24 | 10 | 9,458 |
| G2LB | 14 mc | 69 | 34 | 92,906 |
| G3DCU | 28 mc | 44 | 26 | 52,570 |
| PA0CJH | 14 mc | | | 720 |
| LA6PB | 7 mc | | | 2,128 |
| LA6U | 14 mc | | | 35,032 |
| LA6PB | 28 mc | | | 3,720 |
| OZ1W | 7 mc | | | 1,554 |
| OZ7EU | 14 mc | | | 15,912 |
| OZ7EU | 28 mc | | | 2,620 |
| ON4QF | 7 mc | | | 8,440 |
| ON4QF | 14 mc | | | 81,969 |
| ON4QF | 28 mc | | | 29,332 |
| F9BO | 7 mc | 10 | 21 | 4,650 |
| F8IW | 14 mc | 35 | 11 | 11,316 |
| F9BO | 28 mc | | | 8,888 |
| SM5IZ | 14 mc | 55 | 25 | 35,760 |
| GM3AXR | 7 mc | 16 | 8 | 1,176 |
| GM3AXR | 14 mc | 48 | 28 | 24,244 |
| GM3CSM | 28 mc | 22 | 12 | 4,896 |
| GW5SL | 7 mc | 30 | 10 | 6,800 |



G2DPZ rolled up the score of 153,642, to capture 2nd place in the phone division.

(Continued on page 50)

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July,

SECOND WORLD-WIDE DX CONTEST

(from Page 22)

| Station | Band | Total Countries | Total Zones | Points |
|----------------|-------|-----------------|-------------|--------|
| GW5SL | 14 mc | 43 | 24 | 17,956 |
| GW5SL | 28 mc | 32 | 19 | 12,240 |
| HB9BN | 7 mc | | | 1,596 |
| HB9EU | 14 mc | 63 | 26 | 40,773 |
| HB9DZ | 28 mc | 14 | 12 | 6,188 |
| EA6AF | 7 mc | | | 5,325 |
| EA6AF | 14 mc | | | 12,857 |
| EI9N | 14 mc | 36 | 14 | 29,750 |
| GC2CNC | 7 mc | 23 | 7 | 5,070 |
| GC2CNC | 14 mc | 25 | 6 | 2,542 |
| Zone 15 | | | | |
| OE6AA | 28 mc | 18 | 10 | 2,884 |
| OK1HI | 7 mc | 37 | 13 | 6,800 |
| OK1HI | 14 mc | 48 | 22 | 28,280 |
| OK1HI | 28 mc | 39 | 24 | 35,784 |
| HA4SA | 7 mc | 33 | 10 | 7,611 |
| HA5BF | 14 mc | | | 40,000 |
| HA4SA | 28 mc | 21 | 11 | 4,480 |
| OH5NF | 7 mc | 22 | 6 | 1,596 |
| OH6NR | 14 mc | 20 | 11 | 10,416 |
| OH5NF | 28 mc | 19 | 10 | 5,916 |
| I1PL | 7 mc | 26 | 9 | 13,475 |
| I1PL | 14 mc | 42 | 19 | 20,252 |
| I1KN | 28 mc | 19 | 15 | 8,534 |
| I1BCB | | | | |
| /Trieste | 14 mc | 27 | 13 | 4,480 |
| Zone 20 | | | | |
| YO3RF | 14 mc | 31 | 12 | 4,687 |
| 4X4RE | 14 mc | 42 | 18 | 38,820 |
| 4X4RE | 28 mc | 41 | 20 | 30,134 |
| Zone 21 | | | | |
| MP4BAD | 14 mc | 57 | 27 | 52,584 |
| Zone 24 | | | | |
| CR9AG | 14 mc | 40 | 26 | 42,174 |
| CR9AG | 28 mc | 38 | 20 | 34,858 |
| VS6AX | 14 mc | 20 | 17 | 8,880 |
| Zone 25 | | | | |
| JA2BQ | 7 mc | 5 | 5 | 880 |
| JA2BQ | 14 mc | 25 | 22 | 14,570 |
| JA2BQ | 28 mc | 16 | 14 | 7,050 |
| Zone 27 | | | | |
| KG6DI | 7 mc | 8 | 10 | 4,266 |
| KG6DI | 14 mc | 49 | 26 | 45,000 |
| KG6DI | 28 mc | 31 | 22 | 57,839 |
| Zone 28 | | | | |
| VS2BD | 14 mc | 33 | 19 | 18,512 |
| VS2BD | 28 mc | 5 | 4 | 198 |
| Zone 29 | | | | |
| VK6RU | 7 mc | 4 | 7 | 759 |
| VK6RU | 14 mc | 46 | 20 | 29,928 |
| VK6RU | 28 mc | 32 | 19 | 11,016 |
| Zone 30 | | | | |
| VK4EL | 7 mc | 9 | 11 | 4,840 |
| VK3OP | 14 mc | 68 | 30 | 79,674 |
| VK3OP | 28 mc | 10 | 10 | 3,120 |
| VK7GW | 28 mc | 30 | 18 | 16,224 |
| Zone 31 | | | | |
| KH6IJ | 7 mc | 12 | 11 | 8,970 |
| KH6IJ | 14 mc | 51 | 26 | 62,370 |
| KH6IJ | 28 mc | 20 | 19 | 35,334 |
| Zone 32 | | | | |
| ZL4GA | 7 mc | 13 | 13 | 7,332 |
| ZL4GA | 14 mc | 44 | 27 | 54,883 |
| ZL4GA | 28 mc | 14 | 14 | 15,564 |
| Zone 33 | | | | |
| CT3AV | 14 mc | 28 | 14 | 36,120 |
| EK1AO | 7 mc | 19 | 5 | 4,896 |
| EK1AO | 14 mc | 47 | 20 | 39,597 |
| EK1AO | 28 mc | 26 | 10 | 26,028 |
| Zone 36 | | | | |
| FESAB | 7 mc | 12 | 6 | 1,044 |
| FESAB | 14 mc | 37 | 24 | 64,111 |
| FESAB | 28 mc | 29 | 13 | 13,736 |

| Station | Band | Total Countries | Total Zones | Points |
|----------------|-------|-----------------|-------------|--------|
| Zone 37 | | | | |
| MI3AB | 14 mc | 62 | 30 | 66,240 |
| MD4GC | 14 mc | 30 | 21 | 19,074 |
| CR7AF | 14 mc | 19 | 14 | 14,091 |
| VQ4SGC | 14 mc | 39 | 21 | 17,160 |
| Zone 38 | | | | |
| ZS5LI | 7 mc | 6 | 6 | 384 |
| ZS6OW | 14 mc | 54 | 28 | 79,704 |
| ZS5U | 28 mc | 32 | 14 | 12,604 |
| ZS3R | 14 mc | 6 | 8 | 924 |
| Zone 40 | | | | |
| TF3EA | 7 mc | 18 | 5 | 805 |
| TF3EA | 14 mc | 38 | 19 | 32,091 |
| TF3EA | 28 mc | 20 | 10 | 7,530 |

Single Band, Multiple Operator, Phone Winners

| | | | | | |
|----------------|--|-------|----|----|--------|
| Zone 3 | W6SA | 14 mc | 52 | 26 | 22,698 |
| | W6NIG | 28 mc | 32 | 22 | 10,980 |
| Zone 4 | W5CD | 28 mc | 3 | 2 | 45 |
| | W5CD | 14 mc | 1 | 1 | 6 |
| | W8YPV | 28 mc | 41 | 18 | 10,915 |
| Zone 5 | W1RTB (W1IPQ) | 28 mc | 29 | 16 | 7,245 |
| Zone 7 | HP2RO (HP2RB) | 28 mc | 33 | 19 | 24,232 |
| Zone 9 | HK4JO | 14 mc | 25 | 15 | 8,120 |
| Zone 10 | HC2JR | 7 mc | 7 | 5 | 144 |
| | HC2JR | 14 mc | 43 | 23 | 35,970 |
| | HC2JR | 28 mc | 38 | 21 | 51,920 |
| Zone 14 | HB9P | 7 mc | 18 | 6 | 1,056 |
| | HB9P | 14 mc | 40 | 18 | 12,006 |
| | HB9P | 28 mc | 35 | 19 | 7,222 |
| | EI3W | 14 mc | 27 | 12 | 8,775 |
| Zone 15 | I1AUH | 7 mc | 32 | 18 | 225 |
| | I1AUH | 14 mc | 28 | 13 | 4,510 |
| | I1AUH | 28 mc | 11 | 4 | 18,650 |
| Zone 28 | VS1DZ | 14 mc | 24 | 14 | 5,282 |
| | VS1DZ | 28 mc | 26 | 16 | 14,700 |
| Zone 36 | OQ5LL (OQ5BU) (OQ5KL) (OQ5PW) (OQ5VD) (OQ5NK) | 28 mc | 65 | 25 | 54,450 |

All Band, Multiple Operator, C. W. Winners

| | | | | | |
|----------------|-------|-----|----|-----|---------|
| Zone 3 | W6SZY | 141 | 74 | 474 | 291,110 |
| | W6SA | | | | |
| Zone 4 | K8AIR | 87 | 58 | | 80,185 |
| | VE4RO | 127 | 76 | 320 | 179,858 |
| Zone 5 | W2BXA | 135 | 64 | 483 | 272,431 |
| | W2LPE | | | | |
| Zone 10 | HC2JR | 75 | 49 | 606 | 221,960 |
| Zone 15 | HA5B | 33 | 15 | | 21,504 |
| Zone 20 | 4X4BX | 63 | 27 | | 62,820 |
| | 4X4AO | | | | |

All Band, Multiple Operator, Phone Winners

| | | | | | |
|---------------|--------|----|----|-----|--------|
| Zone 3 | W6SA | 84 | 48 | 182 | 60,060 |
| Zone 4 | W5CD | 4 | 3 | | 84 |
| | W5PXF | | | | |
| | VE3JU | 40 | 24 | | 11,264 |
| | VE3BHS | | | | |

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79,858

72,431

1,960

1,504

2,820

1,060

84

264

| Station | Band | Total Counties | Total Zones | Points |
|---------------|------|----------------|-------------|---------|
| Zone 10 HC2JR | 88 | 49 | 504 | 196,869 |
| Zone 13 CX3CS | 57 | 39 | | 60,192 |
| Zone 14 ON4PJ | 41 | 21 | | 15,128 |
| HB9P | 93 | 43 | 223 | 53,584 |
| HB9FM | | | | |
| HB9KX | | | | |
| HB9KU | | | | |
| HB9DU | | | | |
| EA2CQ | 62 | 30 | | 29,248 |
| Zone 15 IIAUH | 71 | 35 | | 52,788 |
| Zone 28 VSIDZ | 42 | 22 | | 31,296 |

(To be concluded next month)

V.H.F.—U.H.F.

(from page 39)

receiver, provided the low-powered signal was stable enough to stay within the 10-ke band of the communications receiver. This means that a crystal controlled 1/2-watt transmitter would be as easy to copy as a 100-watt modulated oscillator splashing over a 2 mc band! It isn't at all hard to get a half watt of stable power on 420. Present-day receiving type tubes can deliver this much sock. And the receiver need not be complex—a simple three-tube converter in front of your regular communications receiver should suffice.

If this all seems hard to take, look at the results obtained by G5BY and G3EJL using low-powered transmitters and simple converters working into standard communications receivers. G5BY's log shows

a total of 7 QSOs with G3EJL over that 119-mile path, to date!

The problem of receiver stability is a tough one, but it can be licked by fairly simple means. G5BY uses a 2-meter oscillator tripling to 420 (no extra multiplier tube was needed) as the local oscillator. G3EJL uses a crystal-controlled local oscillator and tunes the i.f. receiver—an HRO. These fellows habitually use c.w. on 420! They are confining operations to the section of the band between 432 and 438 mc, the third harmonic of their two-meter band. Their success has produced many new 420-mc converts, and from the talk heard on the two-meter band, most of the stations in England are going on "70 cms" as soon as possible—all with crystal-controlled transmitters and communications-bandwidth receivers!

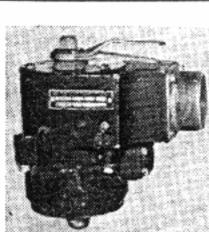
Ye Ed would like to find out how you fellows feel on this subject. It's easy to adopt a "hands off" policy and wait to see how things develop. But there are a great many hams now thinking seriously about getting on 420 who would like advice on the best way to get started on the band. If we suggest a simple converter into a communications receiver, there will be many disappointments when the experimenters find that they are not able to copy most of the signals now on the band. Nor is there much incentive to build a stabilized transmitter when the stations you aim to work are using radar receivers or super-regens. The only answer to that situation is higher power—and it isn't easy to get it crystal-controlled. So let's hear from you. . . .

And while we're at it, shall we settle the polarization problem, too? ! ! !

Two Meter Notes

Samples of early-season DX collected at random:

May 1: A good opening across the mountains of central Pennsylvania, during which W3RUE in Pittsburgh caught W2NLY and W2PAU. Ted wants to know "when are the stations in Delaware going to



3/4 RPM ANTENNA ROTATOR MOTOR—High torque, reversible motor—operates directly from 110 Volt 60 cycle by use of condenser. Light weight, quiet running, ruggedly built, positive stop, easily mounted. Normally operates from 110 V. 400 cycle. With instructions, complete—NEW . . . \$4.95
10 MFD 400 Volt Cond. \$1.00 SPST Momentary Switch 35c DPDT Momentary Switch 75c Resistor, 100 ohm 25 Watt 50c 4 Wire Cable .05c per Ft. COMPLETE KIT OF PARTS: Motor, Cond., SPST Switch, and Resistor . . . \$5.95

BC-645-A TRANSCEIVER — 110 VOLT TRANSFORMER & CHOKE

BC-645-A Transceiver, 15 tubes, ideal for conversion to 460 MC. Citizens Band. Frequency coverage 435 to 500 MC. With conversion instruction—NEW and Boxed . . . \$14.95
TRANSFORMER for BC-645-A — 110 Volt 60 cycle input; output 400 Volt 150 MA. after filter, 12, 9, and 6 V. AC. 4 amps and 5 V. 3 amps. No. CH-645 . . . \$6.95
CHOKE—15 Hy. 150 MA. Order No. CH-646 . . . \$2.95
PE-101 DYNAMOTOR—13/26 V. input . . . \$2.95

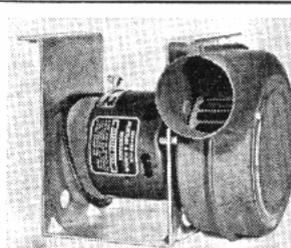
New Transformers and Chokes:

TRANSFORMERS (Cased) 115 VOLT 60 CYCLE PRIMARIES:
OUTPUT: 750-0-750 V.A.C. (600 V.D.C. after choke input filter at 250 MA.) Includes 6.3 V.A.C. winding at 5 amps and 5.0 V.A.C. winding at 4 amps. CH-106 . . . \$8.75
OUTPUT: 600-0-600 V.A.C. at 250 MA. 12 V.A.C. at 3 amps; 12 V.A.C. at 3 amps; and 5 V.A.C. at amps. Designed for Army surplus transmitters. CH-108 . . . \$7.75
OUTPUT: 250-0-250 V.A.C. at 60 MA. 24 V.A.C. at .6 amps; 6.3 V.A.C. at .6 amps. Designed for Army surplus Receivers. CH-109 . . . \$3.50

TRANSFORMERS—110 VOLT 60 CYCLE PRIMARIES:
Sec. 12 V. 1 amp. . . \$1.50 Sec. 24 V. .5 amp. . . \$1.50
Sec. 24 V. 1 amp. . . 1.95 Sec. 36 V. 2.5 amp. . . 2.95
Sec. 24 V. 4 1/2 amp. 3.95 Sec. 14-14 or 28 V. 7 1/2 amp. . . 4.95
Sec. 24 V. 2 amp. . . 2.25 or 15 amp. . . 4.95

CHOKES (Cased)
CH-115—8 Henries at 500 MA. filter choke, 5,000 volt insulation . . . \$10.95
CH-116—5-20 Henries at 500 MA. swinging choke, 5,000 volts insulation . . . \$10.95
CH-121—13 Henries at 250 MA. filter choke, 1,500 volt insulation . . . \$4.95

Address Dept. CQ • Minimum Order \$2.00 • Prices F.O.B. Lima • 25% Deposit On C.O.D. Orders



BLOWERS:
115 Volt 60 cycle Blower (illustrated) Approx. 100 Cubic Ft. dis. 3 1/4" intake, 2" outlet. Motor size: 3 1/2" x 3". 1525 RPM. Complete with mounting bracket. Gov't. surplus. Brand NEW. Order No. CQ-3604 . . . \$7.95

24 VOLT DC or 36 VOLT AC BLOWER—6" intake, 3" outlet. Approx. 200 Cu. Ft. Dis. Also has adapter for Dual outlet. Unused. Price . . . \$5.95
6 VOLT DC - AC BLOWER — Approx. 25 Cubic Ft. Dis. 1 3/4" intake, Dual outlet 1 1/2". Complete with hose. Used for car defroster . . . \$3.95

DYNAMOTORS:

| INPUT: | OUTPUT: | STOCK NO.: | PRICE: |
|--|------------------|------------|--------|
| 9 V. DC. | 450 V. 60 MA. | DM-9450 | \$3.95 |
| @ 6 V. DC. | 275 V. 50 MA. | w/Blower | |
| 12 or 24 V. DC. | 440 V. 200 MA. & | | |
| | 220 V. 100 MA. | D-104 | 9.95 |
| 12 V. DC. | 600 V. 300 MA. | BD-86 | 7.95 |
| PERMANENT MAGNET FIELD DYNAMOTORS | | | |
| 12 or 24 V. DC. | 275 V. 110 MA. | USA/0516 | 3.95 |
| 12 or 24 V. DC. | 500 V. 50 MA. | USA/0510 | 2.95 |
| @ 6 V. DC. | 240 V. 50 MA. | | |

WHIP ANTENNA MAST BASES—INSULATED:



MP-132—(Illustrated) 1" heavy coil spring, 2" insulator. Overall length: 11 1/2". Wt.: 2 3/4 lbs. Price . . . \$3.95
MP-22—Spring action direction of bracket. 4" x 6" mounting. Price . . . \$2.95
MAST SECTIONS FOR ABOVE BASES:
Tubular steel, copper coated, painted 3 foot sections, screw-in type. MS-53 can be used to make any length with MS-52-51-50-49 for taper. Price—any section 50¢ . Ea.
MS-54 or 55. Larger sections than MS-53 75¢ Ea.
BAG BG-56 for carrying 5 mast sections . . . 50¢ Ea.

FAIR RADIO SALES • • 132 SOUTH MAIN ST. LIMA, OHIO

When writing to our advertisers say you saw it in CQ

Results, CQ's Second World-Wide DX Contest

Here is part two of the results, continued from last month. Now you can see what we meant when we said it was too big to run in a single issue!

| Single Band, Single Operator, Phone | | | | | Single Band, Single Operator, Phone | | | | | | |
|-------------------------------------|---------|-------|-----------------|-------------|-------------------------------------|---------|---------|-------|-----------------|-------------|--------|
| | Station | Band | Total Countries | Total Zones | Points | | Station | Band | Total Countries | Total Zones | Points |
| Zone 1 | KI7UM | 14 mc | 24 | 14 | 5,472 | Zone 11 | PY2CK | 14 mc | 60 | 31 | 49,049 |
| | KL7HI | 28 mc | 5 | 5 | 170 | | PY2CK | 28 mc | 63 | 27 | 53,100 |
| Zone 2 | VO6EP | 14 mc | 2 | 1 | 3 | Zone 12 | ZP5BL | 28 mc | 55 | 25 | 67,080 |
| Zone 3 | W6DI | 14 mc | 50 | 22 | 24,024 | | CE2DY | 7 mc | 2 | 2 | 28 |
| | W6EPZ | 28 mc | 24 | 19 | 4,386 | | CE2DY | 14 mc | 19 | 14 | 4,488 |
| | W7CUD | 14 mc | 13 | 13 | 1,430 | CE4BP | 28 mc | 32 | 21 | 15,635 | |
| | W7LBN | 28 mc | 16 | 17 | 1,430 | Zone 13 | LUSCW | 14 mc | 15 | 12 | 2,565 |
| | VE7HC | 14 mc | 48 | 27 | 24,675 | | LUSCW | 28 mc | 38 | 25 | 11,781 |
| VE7HC | 28 mc | 1 | 1 | 2 | CN3BI | | 14 mc | 18 | 15 | 5,181 | |
| | | | | | CN3BI | | 28 mc | 23 | 17 | 12,400 | |
| Zone 4 | W4HA | 14 mc | 23 | 16 | 3,198 | Zone 14 | G2DPZ | 7 mc | 16 | 6 | 638 |
| | W4NBV | 28 mc | 53 | 28 | 23,571 | | G2DPZ | 14 mc | 55 | 25 | 30,660 |
| | W5JUF | 14 mc | 34 | 23 | 6,535 | | G2PU | 28 mc | 40 | 23 | 44,511 |
| | W5KC | 28 mc | 21 | 14 | 2,030 | | ON4AZ | 14 mc | 1 | 1 | 2 |
| | W8VLK | 14 mc | 36 | 19 | 8,745 | | ON4AZ | 28 mc | 6 | 4 | 120 |
| | W8NMF | 28 mc | 51 | 33 | 15,022 | | GW4CX | 28 mc | 33 | 23 | 8,904 |
| | W9EWC | 14 mc | 30 | 22 | 7,436 | | II89DS | 7 mc | 15 | 6 | 693 |
| | W9EWC | 28 mc | 40 | 22 | 7,936 | | II89DS | 14 mc | 59 | 29 | 25,008 |
| | W0HNF | 14 mc | 17 | 10 | 1,431 | | II89DS | 28 mc | 50 | 26 | 35,568 |
| | W0DBC | 28 mc | 31 | 20 | 4,743 | | PA0RU | 28 mc | 29 | 17 | 9,154 |
| | VE3HB | 14 mc | 23 | 13 | 3,708 | | EA4LA | 28 mc | 39 | 22 | 28,121 |
| | VE3BNQ | 28 mc | 38 | 16 | 12,204 | | GM3DZB | 28 mc | 46 | 25 | 14,910 |
| | VE4NO | 14 mc | 31 | 20 | 9,180 | | F9BO | 7 mc | 4 | 2 | 24 |
| | VE4RO | 28 mc | 23 | 20 | 6,450 | | F9BO | 14 mc | 30 | 12 | 4,472 |
| Zone 5 | W1CJK | 14 mc | 41 | 20 | 8,906 | F9BO | 28 mc | 36 | 17 | 7,155 | |
| | W1BEQ | 28 mc | 57 | 26 | 30,710 | LA7Y | 7 mc | 22 | 9 | 3,813 | |
| | W2BXA | 14 mc | 49 | 23 | 26,712 | LA7Y | 14 mc | 37 | 23 | 34,620 | |
| | W2ZVS | 28 mc | 37 | 20 | 16,017 | LA7Y | 28 mc | 29 | 17 | 11,132 | |
| | W3LOE | 14 mc | 49 | 26 | 16,350 | SM4KP | 7 mc | 3 | 2 | 12 | |
| | W3LOE | 28 mc | 42 | 19 | 7,808 | SM4KP | 14 mc | 38 | 17 | 7,755 | |
| | W4OM | 14 mc | 41 | 25 | 10,362 | SM4KP | 28 mc | 37 | 25 | 7,750 | |
| | W4KKM | 28 mc | 36 | 18 | 11,232 | OZ3Y | 28 mc | 24 | 15 | 28,800 | |
| | VE2IZ | 28 mc | 25 | 16 | 3,895 | CT1NT | 14 mc | 19 | 8 | 2,970 | |
| | | | | | | CT1NT | 28 mc | 21 | 7 | 1,960 | |
| | | | | | | DL1FK | 14 mc | 32 | 23 | 5,247 | |
| Zone 6 | XE1AC | 14 mc | 50 | 26 | 17,480 | DL3DO | 28 mc | 34 | 22 | 22,176 | |
| Zone 7 | TI2HP | 14 mc | 34 | 23 | 9,291 | Zone 15 | OK1PI | 14 mc | 31 | 12 | 8,043 |
| | YN4CB | 14 mc | 7 | 8 | 900 | | OK1FF | 28 mc | 43 | 23 | 31,492 |
| | TI2HP | 28 mc | 37 | 18 | 9,090 | | IIARU | 14 mc | 4 | 2 | 18 |
| | KS4AC | 28 mc | 5 | 5 | 380 | | OH2NB | 14 mc | 42 | 23 | 34,775 |
| | KZ5DE | 28 mc | 2 | 2 | 16 | | OH2NB | 28 mc | 33 | 18 | 21,267 |
| | HP1TS | 14 mc | 36 | 20 | 18,894 | | HA5BF | 14 mc | 24 | 8 | 9,636 |
| HP1LA | 28 mc | 19 | 15 | 8,104 | MF2AA | 28 mc | 16 | 13 | 1,972 | | |
| | | | | | OE6BB | 14 mc | 21 | 4 | 1,750 | | |
| Zone 8 | CO2IC | 14 mc | 21 | 14 | 4,235 | Zone 20 | AR8AB | 14 mc | 4 | 4 | 84 |
| | VP6SD | 28 mc | 46 | 23 | 48,921 | | AR8AB | 28 mc | 14 | 8 | 1,584 |
| Zone 9 | HK4AR | 14 mc | 22 | 15 | 7,326 | Zone 22 | V87GR | 7 mc | 1 | 1 | 0 |
| | HK4CO | 28 mc | 54 | 24 | 47,034 | | V87GR | 14 mc | 21 | 13 | 3,638 |
| | YV5BZ | 14 mc | 9 | 9 | 4,410 | | Zone 24 | CR9AG | 28 mc | 32 | 22 |
| Zone 10 | HC2KJ | 7 mc | 3 | 2 | 10 | VS6AM | | 28 mc | 10 | 7 | 561 |
| | HC2KJ | 14 mc | 18 | 14 | 5,312 | Zone 26 | | XZ2SY | 14 mc | 49 | 25 |
| | HC2KJ | 28 mc | 26 | 14 | 8,280 | | | | | | |
| | CP5FB | 28 mc | 30 | 19 | 15,435 | | | | | | |
| | | | | | | | | | | | |



Kurt Wydler at HB9DS, one of the biggest signals in Zone 14.

| Zone | Station | Band | Total Countries | Total Zones | Points |
|---------|---------|-------|-----------------|-------------|--------|
| Zone 28 | VS2BD | 14 mc | 16 | 13 | 1,537 |
| | VS2BD | 28 mc | 4 | 3 | 56 |
| | PK3MR | 28 mc | 15 | 11 | 2,340 |
| | PK4KS | 28 mc | 37 | 21 | 10,024 |
| Zone 29 | VK5AS | 28 mc | 57 | 25 | 49,446 |
| | VK6KW | 14 mc | 28 | 21 | 15,435 |
| | VK6KW | 28 mc | 32 | 19 | 12,087 |
| Zone 30 | VK2WD | 14 mc | 19 | 15 | 2,876 |
| | VK3LN | 14 mc | 32 | 30 | 16,214 |
| | VK7LZ | 28 mc | 16 | 15 | 2,821 |
| Zone 31 | KH6IJ | 14 mc | 24 | 20 | 14,383 |
| | KH6IJ | 28 mc | 28 | 22 | 30,300 |
| Zone 32 | ZL4HP | 14 mc | 36 | 20 | 20,888 |
| | ZL4HP | 28 mc | 28 | 18 | 26,266 |
| Zone 35 | ZD4AH | 28 mc | 30 | 17 | 9,071 |
| | FF8PG | 28 mc | | untabulated | |
| Zone 36 | VQ2GW | 14 mc | 18 | 13 | 1,922 |
| | FQ8SN | 14 mc | 14 | 9 | 2,070 |
| | FQ8SN | 28 mc | 8 | 8 | 736 |
| | CR5UP | 14 mc | 35 | 19 | 20,088 |
| | CR5UP | 28 mc | 35 | 15 | 12,250 |
| Zone 37 | VQ4SC | 7 mc | 3 | 1 | 8 |
| | VQ4SC | 14 mc | 29 | 18 | 7,708 |
| | VQ4IMS | 28 mc | 67 | 28 | 80,370 |
| | ME3SC | 14 mc | 21 | 17 | 2,736 |
| | ME3SC | 28 mc | 37 | 16 | 23,055 |
| | VQ5ALT | 28 mc | 13 | 8 | 1,218 |
| Zone 38 | CR7AF | 14 mc | 11 | 10 | 1,092 |
| | ZS3G | 14 mc | 14 | 9 | 3,151 |
| | ZS3G | 28 mc | 23 | 16 | 13,611 |
| | ZS5U | 7 mc | 5 | 5 | 110 |
| | ZS6JS | 14 mc | 44 | 27 | 39,973 |
| ZS6OV | 28 mc | 48 | 30 | 56,550 | |
| Zone 40 | TF3SF | 28 mc | 4 | 2 | 36 |

Single Band, Multiple Operator, Phone Winners

| Zone | Station | Band | Total Countries | Total Zones | Points |
|--------|-------------------|-------|-----------------|-------------|--------|
| Zone 3 | W6SZY | 7 mc | 31 | 21 | 12,012 |
| | W6GAL (W6GHHU) | 14 mc | 81 | 34 | 88,665 |
| | W6OEG | 28 mc | 38 | 27 | 20,215 |
| Zone 4 | WOJPH (W6G0P) | 28 mc | 32 | 20 | 14,612 |
| | VE4RO | 7 mc | 35 | 22 | 10,659 |
| | VE4RO | 14 mc | 53 | 31 | 36,892 |
| | VE4RO | 28 mc | 39 | 23 | 16,182 |

| Station | Band | Total Countries | Total Zones | Points | |
|---------|------------------|-----------------|-------------|--------|--------|
| Zone 5 | W2BXA | 7 mc | 37 | 17 | 12,690 |
| | W2BXA | 14 mc | 60 | 28 | 67,648 |
| | W2FBA | 28 mc | 45 | 24 | 34,431 |
| | W3NKI | 14 mc | 58 | 27 | 33,150 |
| | W4EZZL | 28 mc | 44 | 23 | 28,408 |
| Zone 8 | KP4ID (KP4DJ) | 28 mc | 1 | 3 | 75 |
| | Zone 10 | HC2JR | 7 mc | 10 | 9 |
| HC2JR | | 14 mc | 33 | 22 | 42,025 |
| HC2JR | | 28 mc | 32 | 18 | 38,400 |
| Zone 14 | EA3EP (EA3DY) | 14 mc | 31 | 18 | 20,000 |
| | Zone 15 | HA5B | 7 mc | 22 | 12 |
| HA5B | | 14 mc | 26 | 11 | 10,952 |
| Zone 20 | 4X4BX (4X4AO) | 14 mc | 54 | 23 | 50,512 |
| | 4X4BX (4X4AO) | 28 mc | 9 | 4 | 546 |

List of Entrants

All Band, Single Operator, C. W. Entries

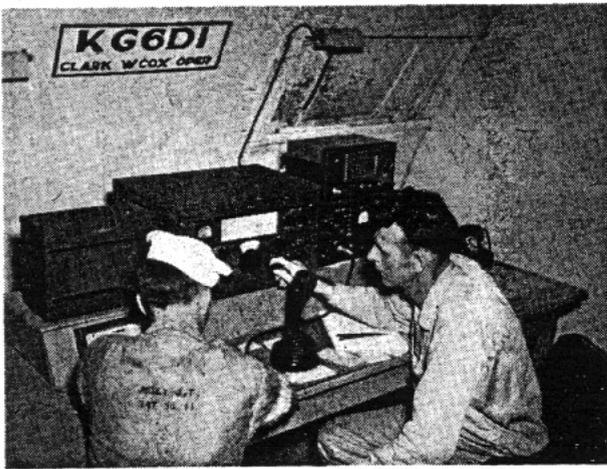
Zone 1 KL7PJ, 75,735; KL7CZ, 17,591; KL7KQ, 7,840.

Zone 3 W6GRL, 190,080; W6RM, 186,151; W6IBD, 116,602; W6EPZ, 95,256; W6OMC, 93,790; W6CTL, 73,008; W6MVQ, 62,828; W6BAM, 55,338; W6ATO, 50,125; W6VE, 42,480; W6SRF, 37,180; W6RNV, 39,030; W6CQK, 28,105; W6BJU, 26,980; W6NKR, 22,327; W6KEK, 17,160; W6EFM, 15,570; W6AMO, 13,680; W6QDE, 13,668; W6YC, 11,842; W6LWC, 11,220; W6AM, 9,476; W6MUC, 9,204; W6CHV, 8,424; W6MI, 8,370; W6WWQ, 7,626; W6TDO, 5,626; W6UQQ, 5,502; W6ETJ, 4,025; W6WPI, 3,936; W6GPB, 3,895; W6EJA, 3,850; W6PCP, 3,280; W6VAT, 2,638; W7IRZ, 11,041; W7NLI, 10,830; W7LNG, 6,600; W7BGH, 4,860; W7ENA, 4,004; W7HJC, 1,431; VE7KC, 29,735; VE7EH, 8,352.

Zone 4 W4KVV, 172,466; W4DQH, 66,430; W4NNJ, 2,025; W4KMS, 1,326; W5LVD, 107,688; W5KC, 53,130; W5FNA, 43,960; W5MMI, 32,204; W5PKE, 28,200; W5LGS, 12,483; W5CD, 10,528; W5NTT, 1,271; W5CEW, 486; W5JLN, 306,180; W5BTI, 186,648; W5DAW, 100,825; W5LEA, 50,941; W5CCJ, 14,199; W5DAE, 11,481; W5DQC, 10,502; W5N8S, 10,005; W5PM, 7,378; W5SDR, 7,280; W5KC, 5,916; W5BWS, 3,741; W5BUM, 3,654; W5MNC, 1,155; W9IU, 224,25; W9DUY, 206,150; W9LM, 161,814; W9RQM, 88,830; W9ROM, 67,770; W9NII, 42,496; W9JNB, 29,610; W9NZZ, 24,080; W9HLLZ, 19,460; W9KKN, 17,775; W9CIA, 16,461; W9ENY, 14,364; W9ABW, 5,586; W9INL, 2,501; W9WEN, 2,346; W9KMN, 1,225; W9QLV, 950; W9DAE, 147,136; W9CU, 43,248; W9VCR, 38,784; W9FGW, 10,125; W9RNL, 8,427; W9DEA, 3,818; VE5QZ, 32,922; VE6AO, 15,544.

Zone 5 W1RY, 117,034; W1CJH, 83,578; W1JYH, 46,680; W1CJK, 42,840; W1AXA, 39,832; W1PDF, 30,516; W1QOG, 17,457; W1EQ, 16,517; W1EOB, 13,778; W1DIT, 12,351; W1BOD, 12,283; W1ODW, 9,108; W1EWF, 7,685; W1AB, 6,579; W1AQE, 5,838; W1DPO, 3,900; W1QMJ, 3,696; W1ONP, 3,465; W1ORV, 2,112; W1RKB, 684; W1PLJ, 12; W2QCF, 128,790; W2MA, 47,352; W2GNQ, 40,920; W2CGJ, 34,686; W2WZ, 34,112; W2EMW, 26,754; W2EWT, 22,950; W2URN, 17,100; W2QCP, 12,166; W2AIS, 10,519; W2ICO, 10,175; W2TXB, 6,192; W2RHQ, 4,590; W2LTP, 2,769; W2UJJ, 1,800; W2BO, 1,781; W2SLU, 882; W2EYZ, 585; W2AQX, 135; W3LOE, 289,120; W3JTK, 60,780; W3JKO, 64,785; W3ARK, 42,638; W3GHD, 31,436; W3HEN, 27,160; W3NA, 19,272; W3NOH, 15,120; W3ADZ, 13,915; W3KQD, 7,008; W3OVU, 4,320;

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KG6DI could be found at the bottom of many a pile-up.

W3AFU, 4,218; W3CWD, 3,485; W3FDJ, 465; W4KFC, 310,184; W4TO, 92,232; W4FPK, 55,074; W4DNI, 23,895; W4EV, 21,294; W4AIT, 18,920; W4GG, 11,972; W4VE, 7,540; W4EPA, 2,956; W4JUY, 429; VE1EA, 16,600; VE1IM, 9,700; VE1EK, 8,424; VE2NI, 43,052; VE2BK, 5,450; VE3AEJ, 198; W8AZD, 73,858; W8AVW, 5,504.

Zone 7 KZ5DE, 49,322; KZ5WZ, 18,921; KS4AC, 12,207; HB1BR, 13,248.

Zone 8 KV4AA, 105,203; KP4JE, 15,200; KP4KD, 13,104.

Zone 11 PY2NX, 72,090; PY1GJ, 21,736.

Zone 12 CE3AG, 249,480; CE4AD, 46,177; CE2DY, 28,980.

Zone 13 CX3CS, 211,420; VPSAI, 16,296; LU7CD, 55,770; LU5BM, 47,731; LU6AX, 2,848.

Zone 14 G4CP, 147,888; G5YV, 143,385; G2VD, 142,232; G2DLJ, 63,854; G8KP, 62,684; G3AZ, 54,718; G3BPP, 25,320; G2AO, 19,383; G2AJB, 16,872; G2BVN, 10,710; G3ATU, 9,660; G6CL, 9,460; G3DES, 6,656; G8DA, 4,950; G6NK, 2,559; F9BO, 62,992; F8NB, 40,426; F8TM, 27,208; F9BB, 6,016; F8LD, 4,950; F8TQ, 4,023; F8ZY, 810; F9IL, 140; SM4KP, 30,094; SM6ID, 28,221; SM5UN, 22,650; SM5OL, 11,180; SM3ARE, 10,032; SM5CO, 11,037; SM7UT, 9,568; SM6DA, 8,221; SM6APB, 8,010; SM5LL, 7,959; SM5WJ, 6,768; SM5PV, 5,700; DL7AA, 120,300; DL1FI, 85,904; DL1KB, 44,176; DL1IB, 36,630; DKSAY, 34,144; DL7AF, 32,212; DL1AU, 30,744; DL7BK, 19,936; DL1BF, 19,800; DL1NS, 15,594; DL7DA, 15,128; DL7AI, 14,609; DL7AD, 10,716; DL7BX, 6,968; DL7AI, 6,390; DL1PV, 5,358; DL7AB, 2,484; DL7AU, 1,040; DL7CN, 504; LA6U, 71,171; LA6PB, 41,106; LA7WA, 27,456; LA4K, 938; LA7BA, 918; G1BZR, 11,868; GW5SL, 107,121; GW3ZV, 231,846; G2CNC, 15,311; GM3ANR, 50,344; GM6RV, 34,618; GM3CSM, 22,220; OZ2EU, 42,000; ON1W, 30,261; OZ2NU, 1,760; PA0UN, 343,728; PA0PN, 28,815; PA0LB, 1,980; ON4QF, 302,994; ON4AZ, 58,338; ON4UF, 6,000; ON4SQ, 3,465; ON4EQ, 2,624; HB9P, 254,400; HB9DZ, 26,424; HB9EQ, 17,071; HB9BJ, 5,760; HB9CL, 1,550; EA1AB, 42,842; EA1BC, 26,730; EA5AF, 400; EA6AF, 34,816; LX1AS, 8,645; EI9J, 66,913; OY3IG, 300.

Zone 15 OE1CD, 36,064; OE1AD, 30,096; OE5AR, 23,606; OE2CC, 1,000; OK1HL, 202,764; OK1LM, 51,525; OK1RW, 41,796; OK1NS, 37,515; OK3AL, 35,672; OK2SO, 31,773; OK1EA, 21,406; OK1AW, 20,236; OK1NQ, 14,768; OK2MA, 6,486; OK1CX, 5,564; OK1IA, 3,933; OK1KY, 3,485; OK1GT, 2,520; OK1SV, 2,520; OK1SK, 2,560; OK1UY, 1,768; OK1VB, 2,550; OK1WX, 10,146; OK1IJ, 1,000; OK1VW, 760; OK2BX, 700; OK1GM, 684; HA4SA, 61,180; HA5BF, 30,051; OH5NF, 35,016; OH2SD, 1,550; OH2TC, 1,127; OH6EV, 42; ZB1AJ, 3,042; IIP, 119,860; HAIV, 70,143; I1KN, 68,375; I1LZ, 31,160; I1ER, 429; IS1FIC, 1,080.

Zone 20 SV0VH, 11,600; YO3RI, 77,945; YO2BU, 22,510; YO3RF, 16,434; YO3AG, 9,550; YO7WL, 7,360; 4X4RE, 138,061; 4X4CZ, 56,170.

Zone 22 AP5B, 15,183; VU2JP, 31,205.

Zone 24 CR9AG, 153,760; VS6AE, 16,960; VS6BA, 10,491.

Zone 25 JA2BQ, 55,071.

Zone 27 KG6DI, 281,780.

Zone 28 VS2BD, 23,058; PK3LC, 55,913; PK3MR, 40,824.

Zone 29 VK6RU, 88,704.

Zone 30 VK2EO, 228,200; VK3OP, 114,342; VK4RC, 56,280; VK7LZ, 6,327.

Zone 31 KH6IJ, 292,734; KH6QH, 199,234; KH6CD, 135,072; KH6BA, 73,248.

Zone 32 ZL1MB, 304,560; ZL4GA, 201,375; ZL1MQ, 15,480; ZL3CP, 1,782.

Zone 33 EK1AO, 192,786; CNSAG, 12,110; FASDA, 64,337; FASIH, 55,352.

Zone 36 OQ5BQ, 60,900; FESAB, 173,756.

Zone 37 VQ4HJP, 190,608; VQ4SC, 3,441.

Zone 38 ZS5LI, 94,160; ZS6OS, 61,200.

Zone 40 TF3EA, 93,300; TF3MB, 10,434; TF5TP, 7,661.

7 Mc, Single Operator, C. W. Entries

Zone 1 KL7RZ, 708; KL7PJ, 636.

Zone 3 W6AM, 8,932; W6ANN, 7,881; W6RXV, 4,147; W6CTL, 2,976; W6NKR, 1,470; W6YC, 1,380; W6SRF, 1,196; W6QDE, 1,180; W6NEX, 1,159; W6EIZ, 700; W6AMO, 624; W6BAM, 608; W6EJA, 588; W6MUO, 588; W6CQK, 520; W6KEK, 500; W6WWQ, 210; W6MI, 187; W6HJU, 36; W6GALQ, 12; W7LNG, 156; VE7VC, 2,832; VE7KC, 96.

Zone 4 W5JC, 16,376; W5BK, 8,640; W5CKY, 8,120; W5PKG, 2,560; W5FNA, 713; W5KC, 480; W5NTT, 169; W8WZ, 26,176; WSJIN, 6,477; W8BTI, 1,872; WSDAW, 1,113; WSDAE, 1,069; W8HWS, 48; WSCCJ, 2; W9DUY, 1,134; W9LM, 607; W9RQM, 230; W9QLW, 117; W9DAE, 1,100; W9CU, 608; W9FGW, 132; VE5QZ, 63; VE3ACS, 6,630; VE3IR, 3,072; VE3IJ, 735; VE3BTG, 105.

Zone 5 W1ZL, 8,568; W1DIT, 6,768; W1QML, 3,442; W1RY, 2,482; W1AXA, 1,300; W1RIBQ, 1,218; W1EOD, 1,128; W1CJH, 966; W1JYL, 690; W1EOP, 558; W1ODW, 357; W1MRQ, 225; W1RKB, 104; W1RHU, 90; W2AGO, 15,876; W2WC, 10,199; W2AIS, 1,959; W2EWT, 1,628; W2EMW, 1,587; W2YDG, 987; W2QCF, 825; W2MA, 408; W2GNQ, 240; W2BO, 195; W2GVZ, 108; W2CGJ, 72; W3LOE, 11,316; W3MQY, 11,025; W3ORU, 8,428; W3ARK, 4,300; W3JKO, 1,757; W3PDX, 714; W3BEN, 627; W4BRB, 31,392; W4KFC, 14,274; W4FPK, 5,547; W4TO, 4,972; W4OBQ, 2,424; W4OM, 1,104; W4EV, 2; VE1IM, 420; VE1EA, 112; VE2NI, 51.

Zone 7 KS4AC, 132; HP1BR, 171.

Zone 12 CE3AG, 4,650; CE2DY, 408.

Zone 14 G2VD, 6,992; G3AZ, 3,936; G2AJB, 1,080; G3BVN, 368; F8TM, 1,340; F9BO, 4,650; SM4AWS, 609; SM5OL, 121; SM6AFK, 56; SM7UT, 32; DL1FK, 2,846; DL1YA, 1,380; DL1NS, 945; DL1FI, 76; LA6PB, 2,128; LA6U, 10,025; GW5SL, 6,800; G1BZR, 1,000; GM3CSM, 1,296; GM3AXR, 1,176; OZ1W, 1,554;

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OZ2EU, 273; ON4QF, 8,440; ON4AZ, 2,816; HB9P, 11,583; HB9BN, 12,544; HB9EQ, 40; EA6AF, 5,325; EI9J, 3,996; GC2CNC, 5,070.

Zone 15 OK1HI, 6,800; OK2SO, 3,008; OK1AW, 2,460; OK1SK, 408; OK2UD, 198; OK1KY, 16; OK1XQ, 6; HA4SA, 7,611; OH5NF, 1,596; OH3PK, 640; OH6NR, 100; I1PL, 13,475; I1KN, 2,880.

Zone 25 JA2BQ, 880.

Zone 27 KG6DI, 4,366.

Zone 29 VK6RU, 759.

Zone 30 VK4EL, 4,840; VK5FM, 6.

Zone 31 KH6IJ, 8,970; KH6QH, 4,332; KH6CD, 715; KH6BA, 600.

Zone 32 ZL4GA, 7,332; ZL2MM, 3,969; ZL1MQ, 858.

Zone 33 EK1AO, 4,896.

Zone 36 FESAB, 1,044.

Zone 38 ZS5LI, 384.

Zone 40 TF3EA, 805; TF3ZM, 560; TF5TP, 130.

14 Mc. Single Operator, C. W. Entries

Zone 1 VESAS, 5,472; KL7UM, 47,047; KL7PJ, 22,344; KL7PB, 5,132; KL7KQ, 2,829.

Zone 2 VO6X, 43,424; VO6EP, 28,520.

Zone 3 W6PQT, 71,504; W6MVQ, 59,950; W6FSJ, 40,050; W6EPZ, 36,670; W6EHV, 26,255; W6CQK, 20,562; W6CTL, 20,546; W6BAM, 19,600; W6JZP, 18,921; W6SRF, 13,578; W6LDD, 13,176; W6MHR, 13,098; W6EYC, 10,545; W6NKR, 10,478; W6BJU, 8,586; W6JWL, 6,435; W6NNV, 5,586; W6QDE, 4,875; W6WWQ, 3,750; W6KEK, 3,600; W6MUO, 2,594; W6TL, 2,312; W6YC, 2,000; W6AMO, 1,541; W6PCP, 1,540; W6PIH, 1,323; W6RXV, 1,246; W6ALQ, 1,144; W6HIL, 93; W6EJA, 714; W6UQQ, 495; W6MI, 392; W6TJG, 315; W6AM, 3; W7ASG, 20,440; W7AC, 9,728; W7LNG, 5,200; W7LEV, 4,730; W7NLI, 4,089; VE7KC, 16,705.

Zone 4 W4PN, 29,382; W4NNJ, 1,620; W4KMS, 594; W5KC, 14,007; W5MMD, 11,832; W5FNA, 12,717; W5PKE, 8,235; W5CJD, 1,534; W5NTT, 524; W5CEW, 96; W8JIN, 78,232; W8HRA, 60,775; W8BTI, 57,630; W8HFE, 43,674; W8DAW, 19,296; W8LEA, 9,882; W8PIX, 8,162; W8QZV, 3,528; W8CLH, 874; W8HA, 630; W8DAE, 600; W8KC, 522; W8CCJ, 361; W8BWS, 1,404; W9DUY, 82,173; W9LM, 48,312; W9VW, 81,760; W9TQL, 28,512; W9FID, 26,714; W9FNR, 17,633; W9HUZ, 17,472; W9RQM, 17,408; W9NII, 12,908; W9HQF, 12,120; W9FAU, 3,624; W9JNB, 1,674; W9ABA, 459; W9QLW, 300; W9DAE, 37,293; W9CU, 18,910; W9DU, 13,461; W9ERI, 10,692; W9CDP, 3,822; W9TKX, 3,276; W9CDV, 2,436; W9FGW, 1,320; W9EWF, 36; VE5QZ, 15,930; VE3IJ, 24,624; VE3HB, 6,532; VE3BTG, 5,410; VE3BYJ, 130.

Zone 5 W1JYH, 34,823; W1RY, 23,680; W1DQH, 22,185; W1MUN, 19,602; W1PDF, 16,120; W1CJK, 8,906; W1EOB, 6,032; W1AXA, 5,832; W1DHO, 5,328; W1AR, 4,860; W1AQE, 4,752; W1APA, 1,782; W1BOD, 1,600; W1ODW, 943; W1ONP, 240; W1RKB, 250; W1QMJ, 6; W2UFT, 71,008; W2IYO, 64,782; W2RQH, 45,212; W2QCF, 28,840; W2CSO, 26,356; W2ZZA, 24,846; W2ZA, 17,974; W2EMW, 15,300; W2PZM, 14,074; W2URX, 13,462; W2EWT, 12,348; W2AZS, 10,836; W2ICO, 10,175; W2MA, 8,262; W2GNQ, 8,094; W2TXB, 6,192; W2CGJ, 4,788; W2LXI, 3,960; W2DSU, 1,800; W2AIS, 1,178; W2CJM, 1,080; W2RII, 1,052; W2RO, 840; W2SLU, 612; W2PNR, 196; W2GVZ, 135; W2LTP, 135; W3LOE, 75,136; W3OCU, 48,048;

W3ARK, 19,458; W3DKT, 16,870; W3ADZ, 13,356; W3HEN, 7,809; W3NOH, 6,844; W3CGS, 6,157; W3WU, 1,326; W3JKO, 2; W4KFC, 66,992; W4AIT, 18,920; W4TO, 17,854; W4OM, 14,336; W4GOG, 12,935; W4FPK, 9,845; W4EV, 2,640; W4LQN, 3,367; W4IZR, 1,540; W4EPA, 54; W8AZD, 15,708; VE1DB, 3,219; VE1IM, 2,912; VE1EA, 9,163; VE2BV, 16,835; VE2NI, 11,970.

Zone 7 KS4AC, 1,573; HP1BR, 4,100; VP1AA, 902.

Zone 8 KP4KD, 9,222; KP4JE, 6,451.

Zone 10 OA4J, 5,040.

Zone 11 PY2NX, 4,305.

Zone 12 CE3AG, 73,620; CE2DY, 13,414.

Zone 14 G2BOZ, 37,683; G2LB, 92,906; G2VD, 15,768; G3DOG, 11,220; G3AZ, 7,052; G8DA, 3,510; G2AJB, 2,624; G2NK, 2,378; G3ATU, 1,836; G3AIM, 1,008; G2BVN, 132; F9BO, 7,488; FSIW, 11,316; F8TM, 2,380; F9ND, 924; F9EP, 143; SM5IZ, 35,760; SM4KP, 13,727; SM5XH, 12,537; SM5OL, 7,400; SM5TQ, 5,876; SM7UT, 5,846; SM5WL, 4,972; SM5NU, 24; DL3DU, 39,130; DL1FI, 24,128; DL1DA, 13,490; DL1FK, 10,761; DL1XS, 8,802; DL3AB, 3,952; LA6U, 35,032; LA7VA, 14,592; LASQ, 10,064; LA6PB, 7,105; LA9W, 820; LA3V, 27; GW5SL, 17,956; GI4NU, 39,780; GI3BZR, 8,260; GC2CNC, 2,542; GM3ANR, 24,244; GM5CL, 12,726; GM3CSM, 7,622; OZ2EU, 15,912; OZ1W, 8,976; PZOCJH, 720; PAQJN, 570; ON4QF, 81,969; ON4AZ, 12,810; ON4WF, 1,426; HB9P, 51,271; HB9EU, 40,773; HB9BT, 18,003; HB9EQ, 5,456; EA6AF, 12,857; EI9N, 29,750; EI9J, 10,887.

Zone 15 OK1HI, 28,280; OK1RW, 18,480; OK1XQ, 14,145; OK1AW, 3,895; OK1KY, 2,997; OK2SO, 2,852; OK1SK, 920; HA5BF, 40,000; HA5BD, 34,000; HA4SA, 8,294; OH6NR, 10,416; OH3PK, 6,844; OH5NF, 5,390; OH2TM, 5,200; OH6OV, 42; I1PL, 20,252; I1KM, 12,200; I1BCB/Trieste, 4,480.

Zone 20 YO3RF, 4,687; 4X4RE, 38,820.

Zone 21 MP4BAD, 52,584.

Zone 24 CR9AG, 42,174; VS6AX, 8,880.

Zone 25 JA2BQ, 14,570.

Zone 27 KG6DI, 45,000.

Zone 28 VS2BD, 18,512.

Zone 29 VK6RU, 26,928.

Zone 30 VK2PV, 1,334; VK3OP, 79,674; VK5BO, 63,918; VK5FM, 37,014; VK7LJ, 1,652.

Zone 31 KH6IJ, 62,370; KH6CD, 43,263; KH6QH, 41,956; KH6BA, 25,286; KH6PY, 6,440.

Zone 32 ZL2CP, 66,912; ZL4GA, 54,883; ZL3AB, 34,162; ZL3OA, 32,273; ZL1MQ, 1,764.

Zone 33 CT3AV, 36,120; CT3AA, 2,720; EK1AO, 39,597.

Zone 34 ST2TC, 8,330.

Zone 36 VQ2GW, 11,096; FESAB, 64,111.

Zone 37 MI3AB, 66,240; MD4GC, 10,074; VQ1CUR, 23,876; CRYAF, 14,091; VQ4SGC, 17,160.

Zone 38 ZS3R, 924; ZS6OW, 79,704; ZS6HO, 75,348; ZS6OS, 43,285; ZS5LI, 28,126; ZS5FE, 15,428.

Zone 39 VQ8AY, 6,020.

Zone 40 TF3EA, 32,091; TF3AR, 25,785; TF3AB, 8,241; TF3MB, 5,720; TF5TP, 4,080.

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V3ADZ, 13,356;
6.157; W3WU,
W4AIT, 18,920;
4GOG, 12,935;
3.367; W4IZR,
VE1DB, 3,219;
16,835; VE2NI,

VP1AA, 902.

14.

G2VD, 15,768;
3,510; G2AJB,
G3AIM, 1,008;
6; F8TM, 2,380;
SM4KP, 13,727;
5,876; SM7UT,
DL3DU, 39,130;
DL1FK, 10,761;
35,032; LA7VA,
LA9W, 820;
9,780; GI3BZR,
GM5CL, 12,
OZ1W, 8,976;
81,969; ON4AZ,
HB9EU, 40,773;
12,857; EI9N,

8,480; OK1XQ,
OK2SO, 2,852;
34,000; HA4SA,
OH5NF, 5,390;
52; I1KM, 12,-

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4; VK5BO, 63,-

2,263; KH6QH,

3; ZL3AB, 34,-

1; EK1AO, 39,-

11.

074; VQ1CUR,

ZS6HO, 75,318;
15,428.

5,785; TF3AB,

28 Mc, Single Operator, C. W. Entries

Zone 1 KL7BJ, 9,600; KL7KQ, 1,008.

Zone 3 W6WJX, 9,568; W6EPZ, 7,344; W6CTL,
5,160; W6BAM, 4,956; W6BJU, 4,294; W6RXV, 4,016;
W6MI, 3,190; W6UQQ, 2,616; W6KEK, 2,240; W6AMO,
1,198; W6ETJ, 1,880; W6SRF, 1,647; W6YC, 1,386;
W6MUO, 403; W6PCP, 350; W6QDE, 153; W6WVQ,
140; W6EJA, 114; W6MUQ, 24; W7IRZ, 5,717; W7NLI,
3,502; W7HNG, 2,070; W7LNG, 132; VE7MS, 20,066;
VE7KC, 1,104.

Zone 4 W4CYC, 27,105; W4NNJ, 150; W4KMS, 144;
W5KC, 7,742; W5PKE, 7,567; W5MMD, 4,992; W5FNA,
4,876; W5CD, 3,780; W5CEW, 96; W8BTI, 21,546;
W8DAW, 20,212; W8JIN, 17,928; W8LEA, 15,540;
W8GLK, 14,105; W8CCJ, 11,186; W8KC, 2,871; W8AL,
2,405; W8DAE, 2,366; W8BWS, 273; W9LM, 23,725;
W9RQM, 22,113; W9DUY, 16,531; W9CKP, 16,740;
W9JNB, 16,443; W9KXK, 13,050; W9NNI, 9,028;
W9HUZ, 30; W9DAE, 23,485; W9FGW, 2,640; W9CU,
2,084; W9ARI, 270; VE3BTG, 6,636; VE3AFY, 1,971;
VE3IJ, 1,702; VE5QZ, 2,025; VE5UN, 640.

Zone 5 W1RY, 17,875; W1CJH, 17,316; W1CJK, 12,
610; W1PDF, 2,268; W1ONP, 1,785; W1ROD, 1,364;
W1ANA, 1,300; W1JIY, 738; W1OBW, 357; W1EOB,
247; W1AB, 126; W1AQE, 42; W2KUW, 30,162;
W2CGJ, 11,350; W2MA, 10,764; W2GNQ, 8,670;
W2QCF, 8,277; W2GVZ, 1,752; W2RHQ, 1,234; W2AIS,
595; W2NHH, 360; W2HT, 588; W2URN, 216; W2SLU,
24; W3JKL, 40,248; W3JTK, 27,813; W3LOE, 18,900;
W3BEN, 2,310; W3NOH, 1,600; W3AOZ, 6; W4KFC,
30,615; W4EV, 12,256; W4TO, 11,550; W4OM, 7,344;
W4FPK, 3,706; W4EPA, 2,189; W4EEO, 24; W8AZD,
21,018; VE1KN, 2,976; VE1IM, 564; VE1EA, 504;
VE2NI, 7,409.

Zone 7 KS4AC, 3,400; HP1BR, 1,430.

Zone 8 KP4JE, 3,460; KP4KD, 322.

Zone 11 PY2NX, 37,098.

Zone 12 CE3AG, 25,400; CE2DY, 1,440.

Zone 14 G3DCU, 52,570; G2VD, 25,032; G2PL, 17,541;
G3AZ, 7,452; G3AIM, 7,068; G2BVN, 3,654; G3ATU,
2,937; G2AJB, 1,700; G8DA, 120; G2NK, 6; F9BO,
8,888; F8TM, 5,768; F9OL, 918; SM4KP, 4,536; SM7UT,
154; SM5OL, 16; DL1FI, 24,128; DL1LI, 23,655;
DL1FK, 9,676; LA6PB, 3,720; LAGU, 1,904; LA9T,
217; GW4CX, 14,196; GW5SL, 12,240; GM3CSM, 4,196;
GM3AXR, 912; ON2EU, 2,620; OZ1W, 1,081; ON4QF,
29,332; ON4AZ, 5,445; HB9P, 27,608; HB9EQ, 1,688;
EI9J, 7,030.

Zone 15 OE6AA, 2,884; OK1HI, 35,784; OK2SO, 4,446;
OK2AT, 946; OK1AW, 885; OK1ME, 96; OK1ZM, 20;
HA4SA, 4,480; OH5NF, 5,916; I1KN, 8,534; I1PL,
6,970.

Zone 20 4X4RE, 30,134.

Zone 24 CR9AG, 34,858.

Zone 25 JA2BQ, 7,050.

Zone 27 KG6DI, 57,839.

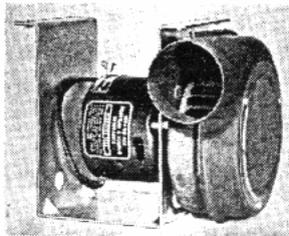
Zone 28 VS2BD, 198.

Zone 29 VK6RU, 11,016.

Zone 30 VK3OP, 3,120; VK5FM, 967; VK7GW, 16,224.

COMMAND RECEIVERS & TRANSMITTERS:

| (ALL WITH SCHEMATICS) | USED: | NEW: |
|--|---------|---------|
| BC-453 Receiver, 190-550 KC. | \$11.95 | \$14.95 |
| BC-454 Receiver, 3-6 MC. | 4.95 | 6.95 |
| FC-455 Receiver, 6-9.1 MC. | 6.95 | 8.95 |
| BC-457 Transmitter, 4-5.3 MC. | \$ 5.95 | \$ 8.95 |
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| RACKS—Dual Transmitter or Receiver | | \$1.50 |
| PLUG for plugging in rear of Rec. or Trans. | | 55¢ |



BRAND NEW BLOWERS

115 Volt 60 cycle Blower as pictured at left. Approx. 100 Cubic Ft. Displacement, 3/4" intake 2" outlet. Motor size: 3 1/2" x 3". 1525 RPM. Complete with mounting bracket. Brand new, Gov't. surplus. Order No. CQ-3804

\$7.95

DYNAMOTORS:

| INPUT: | OUTPUT: | STOCK NO.: | PRICE: |
|-----------------------------------|------------------|------------|--------|
| 9 V. DC. | 450 V. 60 MA. | DM-9450 | \$3.95 |
| @ 6 V. DC. | 275 V. 50 MA. | w/Blower | |
| 12 or 24 V. DC. | 440 V. 200 MA. & | | |
| | 220 V. 100 MA. | D-104 | 9.95 |
| 12 V. DC. | 600 V. 300 MA. | BD-86 | 7.95 |
| 12 V. DC. | 330 V. 150 MA. | BD-87 | 5.95 |
| 12 V. DC. | 375 V. 150 MA. | BD-83 | 6.95 |
| 12 V. DC. | 1000 V. 300 MA. | BD-77 | 7.95 |
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| 12 or 24 V. DC. | 275 V. 110 MA. | USA/0516 | 3.95 |
| 12 or 24 V. DC. | 500 V. 50 MA. | USA/0510 | 2.95 |
| @ 6 V. DC. | 240 V. 50 MA. | | |

BC-645-A TRANSCEIVER — 110 VOLT TRANSFORMER & CHOKE

BC-645-A Transceiver, 15 tubes, ideal for conversion to 460 MC. Citizens Band. Frequency coverage 435 to 500 MC. With conversion instruction—NEW and Boxed \$14.95
TRANSFORMER for BC-645-A — 110 Volt 60 cycle input; output 400 Volt 150 MA. after filter, 12, 9, and 6 V. AC. 4 amps and 5 V. 3 amps. No. CH-645 \$6.95
CHOKE—15 Hy. 150 MA. Order No. CH-646 \$2.95
PE-101 DYNAMOTOR—13/26 V. input \$2.95

Address Dept. CQ—Minimum Order \$2.00—Prices F.O.B. Lima—25% Deposit On C.O.D. Orders

3/4 RPM ANTENNA ROTATOR MOTOR—High torque, reversible motor—operates directly from 110 Volt 60 cycle by use of condenser. Light weight, quiet running, ruggedly built, positive stop, easily mounted. Normally operates from 110 V. 400 cycle. With instructions, complete—NEW \$4.95
10 MFD 400 Volt Cond. \$1.00 SPST Momentary Switch 35c DPDT Momentary Switch 75c Resistor, 100 ohm 25 Watt 50-4 Wire Cable .05c per Ft. COMPLETE KIT OF PARTS: Motor, Cond., SPST Switch, and Resistor \$5.95



New Transformers and Chokes:

TRANSFORMERS (Cased) 115 VOLT 60 CYCLE PRIMARIES:
OUTPUT: 750-0-750 V.A.C. (600 V.D.C. after choke) input filter at 250 MA.) Includes G.3 V.A.C. winding at 5 amps and 5 0 V.A.C. winding at 4 amps. CH-106 \$8.75
OUTPUT: 600-0-600 V.A.C. at 250 MA. 12 V.A.C. at 3 amps; 12 V.A.C. at 3 amps; and 5 V.A.C. at 6 amps. Designed for Army surplus transmitters. CH-108 \$7.75
OUTPUT: 250-0-250 V.A.C. at 60 MA. 24 V.A.C. at 6 amps; 6.3 V.A.C. at 6 amps. Designed for Army surplus receivers. CH-109 \$3.50
TRANSFORMERS—110 VOLT 60 CYCLE PRIMARIES:
Sec. 12 V. 1 amp. \$1.50 Sec. 24 V. .5 amp. \$1.50
Sec. 24 V. 1 amp. 1.95 Sec. 36 V. 2.5 amp. 2.95
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CH-115—8 Henries at 500 MA. filter choke, 5,000 volt insulation \$10.95
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MP-132—(Illustrated) 1" heavy coil spring, 2" insulator. Overall length: 11 1/2". Wt.: 2 3/4 lbs. Price \$3.95
MP-22—Spring action direction of bracket, 4" x 6" mounting. Price \$2.95

MAST SECTIONS FOR ABOVE BASES:
Tubular steel, copper coated, painted 3 foot sections, screw-in type. MS-53 can be used to make any length with MS-52-51-50-49 for taper. Price—any section 50c Ea.
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Zone 31 KH6IJ, 35,334; KH6QH, 30,034; KH6CD, 18,176; KH6BA, 6,923.
 Zone 32 ZL4GA, 15,564; ZL1MQ, 2,576.
 Zone 33 EK1AO, 26,028.
 Zone 36 FESAB, 13,736.
 Zone 38 ZS5U, 5,604; ZS6OS, 7,456; ZS1FD, 4,050.
 Zone 40 TF3EA, 7,530; TF3SF, 4,708; TF3MB, 682; TF3TP, 98.

All-Band, Single-Operator, Phone Entries

Zone 1 KL7UM, 5,472; KL7HI, 4,223.
 Zone 3 W6GRL, 49,077; W6RM, 45,313; W6DI, 24,624; W6CHV, 15,356; W6FSJ, 12,540; W6AM, 20,335; W6EPZ, 16,401; W6BJU, 15,853; W6EIV, 5,580; W6MUO, 5,264; W6MI, 2,124; W6UQQ, 522; W7HRH, 1,440; W7CUD, 1,430; W7MOW, 962; VE7HC, 25,333.
 Zone 4 W4DQH, 53,382; W4CYC, 14,525; W5HFFQ, 6,370; W5MMD, 5,400; W5KC, 4,320; W8NXP, 31,824; W8ZMC, 21,973; W8GOB, 19,314; W8NSS, 14,713; W8CCJ, 2,664; W8PM, 570; W9EWC, 30,894; W9CZC, 15,247; W9ABA, 117; W9FAB, 2,108; W9QUV, 6,018; W9HNF, 1,770; W9FUH, 910; VE3QE, 3,708; VE4RO, 19,620; VE4XO, 12,066; VE4IJ, 2,040.
 Zone 5 W1ATE, 83,661; W1PDF, 24,388; W1CJH, 19,656; W2BXA, 27,454; W2VQM, 19,656; W2IUV, 10,074; W2SFA, 4,560; W2MA, 5,520; W3LOE, 47,036; W3NA, 44,577; W3LTU, 22,270; W3BRT, 6,678; W4OM, 22,561; W4ZD, 18,009; W4TO, 8,060; W4FGL, 3,519; W4DXI, 1,248; W8AVW, 920; VE1CR, 24,402.
 Zone 7 TI2HP, 40,880; YS1JR, 3,672; HP1LA, 17,649; HP1BR, 3,811.
 Zone 8 CO7RQ, 8,463; VP2GG, 1,034.
 Zone 9 HK4AR, 73,932; HK4DF, 50,976; HK1DZ, 8,658; YV5AC, 29,068.
 Zone 10 HC2KJ, 28,875; HC1FG, 5,723; CP5FA, 4,392.
 Zone 11 PY2CK, 224,349; PY4RJ, 34,920; PY7BN, 15,181.
 Zone 12 CE2DY, 9,366.
 Zone 13 LUSCW, 25,380; LU5CK, 19,620; CX3BH, 34,001.
 Zone 14 G2DPZ, 153,642; G2PU, 120,496; G2ALN, 82,728; G2DYV, 20,025; G3DKR, 11,792; G2VJ, 6,615; G3AIM, 5,520; G2AO, 464; HB9DS, 145,410; HB9J, 4,576; HB9HJ, 2,583; ON4AZ, 156; EA4LA, 28,121; EA4CK, 6,413; F9BO, 24,786; LA7Y, 127,684; LA6J, 1,984; LA6PR, 570; SM4KP, 25,192; SM5WJ, 12,000; CT1FM, 12,600; CT1NT, 10,260; CT1ST, 606; DL3DO, 80,730; DL1FI, 12,276; DL1IB, 3,280; DL7AD, 968; DL7AA, 363.
 Zone 15 OK2SO, 18,750; OK2SL, 2,627; OK1AW, 1,107; OK1RW, 3,636; I1RB, 124,026; I1LW, 27,384; I1AMU, 13,090; I1BNU, 1,081; OH2NB, 132,191; I1RC/Trieste, 14,006; ZB1AJ, 2,112.
 Zone 20 ARSAB, 2,241; YO3RI, 3,510; 4X4AA, 60,939.
 Zone 22 VS7GR, 3,745; AP5B, 15,183.
 Zone 24 VS6AE, 1,144.
 Zone 28 VS2BD, 2,196; PK4DA, 9,243.
 Zone 29 VK6KW, 55,200.
 Zone 30 VK3VQ, 4,750.

Zone 31 KH6IJ, 89,568; KH6CD, 966.
 Zone 32 ZL4HP, 96,288; ZL1MQ, 23,732.
 Zone 33 FA8IH, 37,065; CN8BV, 20,944; CN8BA, 18,340.
 Zone 36 VQ2DH, 60,300; FQ8SN, 5,304; CR5UP, 64,168; OQ5BQ, 24,612.
 Zone 37 VQ4SC, 55,056; MI3SC, 25,791.
 Zone 38 ZS3G, 20,414; ZS3M, 476; ZS6TE, 63,547; ZS5U, 61,007.

7 Mc, Single Operator, Phone Entries

Zone 10 HC2KJ, 10.
 Zone 12 CE2DY, 28.
 Zone 14 G2DPZ, 638; HB9DS, 693; F9BO, 24; LA7Y, 3,813; SM4KP, 12.
 Zone 22 VS7GR, 0.
 Zone 37 VQ4SC, 8.
 Zone 38 ZS5U, 110.

14 Mc, Single Operator, Phone Entries

Zone 1 KL7UM, 5,472; KL7HI, 2,666; KL7AAB.
 Zone 2 VO6EP, 3.
 Zone 3 W6DI, 24,624; W6PWR, 15,572; W6KQY, 10,431; W6AM, 7,200; W6FSJ, 6,125; W6BJU, 5,490; W6EPZ, 3,774; W6GVM, 3,367; W6MUO, 2,008; W6LDD, 495; W6MI, 195; W6PVV, 3; W7CUD, 1,430; VE7HC, 24,675; VE7VT, 2,583.
 Zone 4 W4HA, 3,198; W5JUF, 6,553; W5HFFQ, 6,370; W5JC, 1,290; W5MMD, 2,144; W5KC, 418; W8VILK, 8,745; W8ZMC, 5,014; W8NXP, 2,967; W8SXU, 252; W8CCJ, 72; W9EWC, 7,436; W9FAB, 2,108; W9ABA, 70; W9HNF, 1,431; W9GUV, 594; W9DU, 192; W9FUH, 40; VE3HB, 2,376; VE3IJ, 1,100; VE4XO, 9,180; VE4RO, 3,332.
 Zone 5 W1CJH, 8,906; W1PDF, 7,905; W2BXA, 26,712; W2VQM, 4,950; W2IUV, 2,960; W2URX, 1,848; W2MA, 756; W2DSU, 54; W3LOE, 16,350; W3LTU, 5,632; W4OM, 10,362; W4TO, 1,890; W4ZD, 2,464.
 Zone 6 XE1AC, 17,480.
 Zone 7 TI1HP, 9,291; YN4CB, 900; HP1TS, 18,894; HP1LA, 1,748; HP1LB, 1,020; HP1BR, 684.
 Zone 8 CO2IC, 4,235.
 Zone 9 HK4AR, 7,326; HK4DF, 516; YV582, 4,410.
 Zone 10 HC2KJ, 5,312; HC1FG, 442.
 Zone 11 PY2CK, 49,049.
 Zone 12 CE2DY, 4,488.
 Zone 13 LUSCW, 2,565; CX3BH, 5,181.
 Zone 14 G2DPZ, 30,660; G3DO, 20,732; G2VJ, 5,504; G3AIM, 132; G2AO, 84; HB9DS, 25,008; HB9J, 627; ON4AZ, 2; F9BO, 4,472; EI3W, 8,775; LA7Y, 3,620; LA6PR, 252; SM4KP, 7,755; SM5LL, 608; CT1NT, 1,960; DL1FK, 5,247; DL1FI, 1,782; DL1UH, 330.
 Zone 15 OK1HI, 8,643; I1ARU, 18; OH2NB, 34,775; OH6NR, 480; HA5BF, 9,606; HA5B, 3,816; OE6VB, 1,750.
 Zone 20 ARSAB, 88.
 Zone 22 VS7GE, 3,638.

Zone 26 X
 Zone 28 V
 Zone 29 V
 16,244; VK3
 Zone 31 K
 Zone 32 Z
 Zone 36 V
 Zone 37 V
 Zone 38 ZS
 ZS3D, 1,751.

28

Zone 1 KL
 Zone 3 W6
 W6FSJ, 1,0
 770; W6HC
 W7BGH, 24
 Zone 4 W4
 W5KC, 2,030
 12,960; W8Z
 W8CCJ, 2,1
 3,741; W9H
 W9ABA, 6;
 2,775; W9K
 VE3BNQ, 15
 6,450; VE4X
 Zone 5 W1
 11,760; W1R
 W1MRP, 13
 W2QKJ, 1;
 W2VQM, 4,8

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 0-300 scale

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 7 ft. teles
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 8 ft. 9-sec

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Zone 26 XZ2SY, 30,046.

Zone 28 VS2BD, 1,537.

Zone 29 VK6KW, 15,435; VK2WD, 2,856; VK3LN, 16,244; VK3AWW, 920; VK3MX, 192.

Zone 31 KH6IJ, 14,388; KH6BA, 6,336.

Zone 32 ZL4HP, 20,888; ZL1MQ, 7,790; ZLAGA, 4,978.

Zone 36 VQ2GW, 1,922; FQ8SN, 2,070; CR5UP, 20,088.

Zone 37 VQ4SC, 7,708; MI3SC, 2,736; CR7AF, 1,092.

Zone 38 ZS6JS, 39,973; ZS5U, 3,861; ZS3G, 3,151; ZS3D, 1,751.

28 Mc, Single Operator, Phone Entries

Zone 1 KL7HI, 170.

Zone 3 W6EPZ, 4,386; W6AM, 3,230; W6BJU, 2,622; W6FSJ, 1,080; W6MI, 1,012; W6ILH, 756; W6MUO, 770; W6HG, 608; W7LBN, 1,419; W7MOW, 962; W7BGH, 247; VE7HC, 2.

Zone 4 W4NBV, 23,571; W4OYG, 8,316; W4MB, 816; W5KC, 2,030; W5MMD, 738; WBNXF, 15,022; W8NSS, 12,660; W8ZMC, 12,288; W8VOZ, 11,648; W8IPM, 3,600; W8CCJ, 2,108; W8SRS, 750; W9EWC, 7,936; W9NII, 3,741; W9HNI, 1,560; W9EXY, 651; W9IBZ, 24; W9ABA, 6; W0DCB, 4,743; W0YCR, 3,132; W0GUB, 2,775; W0FUH, 540; W0RVS, 24; W0HNF, 18; VE3BNQ, 12,204; VE3ND, 16; VE3MZ, 6; VE4RO, 6,450; VE4XO, 117.

Zone 5 W1BEQ, 30,710; W1ONK, 18,830; W1MCW, 11,760; W1RZD, 7,448; W1RDR, 4,982; W1PDF, 4,520; W1MRP, 2,536; W2ZVS, 16,017; W2YOS, 15,680; W2QKJ, 15,120; W2JJI, 6,394; W2UTII, 4,920; W2VQM, 4,876; W2SFA, 4,569; W2MA, 2,184; W2IUU, 2,112; W2BT, 1,416; W2JQJ, 900; W2PFU, 510; W2BXA, 0; W3LOE, 7,808; W3LTU, 5,404; W3FQA, 1,520; W3JKO, 392; W3OCU, 882; W4KKM, 11,232; W4ZD, 10,850; W4OM, 5,848; W4LZM, 3,888; W4NYX, 3,441; W4TO, 2,196; W4EEO, 168; VE2IZ, 3,895.

Zone 7 TI2HP, 9,090; KS1AC, 380; KZ5DE, 16; HP1LA, 8,194; HP1BR, 1,206.

Zone 8 VP6SD, 48,921.

Zone 9 HK4CO, 47,034; HK4DF, 39,900; HK4AR, 34,176; HK4EB, 147.

Zone 10 HC2KJ, 8,280; HC1FG, 2,888; CP5FB, 15,435.

Zone 11 PY2CK, 53,100; PY3QO, 14,672; PY2NX, 14,112; PY3OJ, 3,712; PY1SA, 375; ZP5BL, 67,680.

Zone 12 CE4BP, 15,635; CE3AX, 10,290; CE2DY, 2,080.

Zone 13 LU8CW, 11,781; LU8BF, 2,784; CX3BH, 12,400; CX3AA, 2,816; CX4AB, 1,248; CX2CN, 1,002.

Zone 14 G2PU, 44,541; G2DPZ, 29,952; GSKP, 20,096; G3ANI, 16,606; G3AIM, 4,158; G8SA, 1,968; G2AO, 150; HB9DS, 35,568; HB9CV, 13,650; HB9J, 1,775; ON4AZ, 120; GW4CX, 8,904; GW3KY, 5,632; GM3DZB, 14,910; F9BO, 7,155; F8NP, 6,280; F3PW, 3,103; LA7Y, 11,132; LA4FA, 1,148; LA6PB, 63; SM4KP, 7,750; SM5YD, 3,159; OZ3Y, 28,800; OZ7SM, 3,042; CT1NT, 1,960; DL3DO, 22,176; DL1FK, 8,580; DL1FI, 4,176; PA0RU, 9,154; EA4LA, 28,121.

Zone 15 OK1FF, 31,492; OK1MR, 14,012; OK1UY, 902; OH2NB, 21,267; MF2AA, 1,972.

Zone 20 AR8AB, 1,584.

Zone 24 CR9AG, 17,928; VS6AM, 561.

BA, 18,-

UP, 64,-

63,547;

t; LA7Y.

AAB.

KQY, 10.-
U, 5,490;
O, 2,006;
UD, 1,430;

FQ, 6,370;
W8VLK,
SNU, 252;
W9ABA,
DU, 102;
VE4XO,

2RXA, 26,-
RX, 1,848;
W3LTU,
2,464.

TS, 18,894;
t.

582, 4,410.

G2VJ, 5,504;
HB9J, 627;
A7Y, 3',620;
08; CT1NT,
UH, 330.

2NB, 34,775;
31G; OE6VB,

COLUMBIA'S GEM OF THE MONTH! MD7 PLATE MODULATOR for ARC-5 Xmtr. Push-pull 1625 to plate xmtr. Complete with dynamotor and all tubes. \$7.95

ARR7 HALICRAFTER RECEIVER: Aircraft version of SX-28. Freq. 5.5-42 mc. Like new. Complete **\$55.00**

MN26C BENDIX COMPASS RECEIVER: 150-1500 kc. Complete. Very good cond. **\$14.50**

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ARD3 VHF RECEIVER: Easily converted to 420 haw band. Contains 2-955, 5-6AC7, 2-6SN7, 1-6J5, and terrific tuner. Excel. cond. **\$14.95**

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RCA CANADIAN AIRCRAFT TRANSMITTER: Master osc. or xtal control on 2.5-13 mc. Parallel 814 P.A. with 1625 buffer and osc. Good cond. Cheap! **\$24.50**

PHONE FRENCH TYPE: Good desk phone complete with hand set. **\$ 8.95**

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3" Westinghouse Rd.

0-1 mil. movement with 100-0-100 scale **\$2.98**
0-15 ma. DC movement with 0-300 scale **\$2.98**

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0-1 amp RF **2.99**

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12 ft. telescoping, brass **\$2.75**
7 ft. telescoping, brass **1.95**
26 ft. 7-section, steel **2.25**
8 ft. 9-section, light wt. **1.75**



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| 5T4 | 59c |
| 6R7 | 75c |
| 6SH7 | 39c |
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| 8G9B | \$24.50 |
| 250R | 6.50 |
| 304TH | 3.50 |
| 1630 | 4.75 |
| VR Tubes | .75 |
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DPDT SWITCH: 30 amps, 125 VAC **35c**
10 FOR ONLY **\$2.99**

CONDENSERS!

2 mfd. 4000 V. G.E. Paranol **\$2.50**
10 mid. 600 V. Oil filled, new **.99c**

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* 110 V. 60 cyc. pri. Sec. 2 1/2 V. @ 10 amp. 866-A filament xfrm. Hi-voltage insul. **\$3.95**
* 110 V. 60 cyc. pri. Sec. 400-0-400 @ .200 amp., 6 V. @ 5 amp. and 5 V. @ 3 amp. Thordason upright metal case. Wt. 10 lbs. **\$3.95**
* TWO of these with choke below make excellent power supply for ARC-5. 2 xfrms. and 1 choke **\$10.00**
ALL FER **\$10.00**
* 15 hy. @ 200 amps. CHOKE Thordason upright **\$2.95**

BC 746 TUNING UNITS: Easily converted to 1/2 W. xmtr. No. 3: 3995-4450 kc. No. 8: 3525-3980 kc. No. 10: 3735-4190 kc. (Others available.) Excel. cond. **ca. 75c**
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MERIT TRANSFORMERS

NEW!!! I K W PLATE!!! FULLY POTTED!!!



Get this "hot" new design for the "Gallon" XMTR with 115 or 230 volt line. Delivers 2500 or 2000 V. DC out of filter at a conservative 500 mils. **EXCLUSIVE!!!** Small plate transformer for low power XMTR or exciter stages. Delivers 400 V. DC at 150 M.A. at low cost.

FILTER SMOOTHING CHOKES

| Type No. | Net Price | Inductance Henries | Current Rating M.A. | D.C. Res. Ohms | Volts Insul. | Mtg. |
|---|-----------|--------------------|---------------------|----------------|--------------|------|
| C-4084 | \$19.20 | 8 | 500 | 75 | 7500 | H |
| Dimensions—H 6 3/4", W 6 5/16", D 5 3/16" | | | | | | |

FILTER INPUT OR SWINGING CHOKES

| | | | | | | |
|---|---------|------|-----|----|------|---|
| C-4091 | \$19.20 | 3-14 | 500 | 75 | 7500 | H |
| Dimensions—H 6 3/4", W 6 5/16", D 5 3/16" | | | | | | |

UNIVERSAL MODULATION TRANSFORMER

Tapped Series-Parallel Coils Provide a Wide Range of Modulations

| Type No. | Net Price | Pri. Impedance | Pri. M.A. Per Side | Sec. Impedance | Watts | Max. Sec. M.A. | Mtg. |
|---|-----------|----------------|--------------------|----------------|-------|----------------|------|
| A-4008 | \$54.00 | 2000-20000 | 325 | 2000-20000 | 500 | 325/650* | H |
| Dimensions—H 8 3/4", W 7 1/2", D 7 *Series-Parallel | | | | | | | |

PLATE TRANSFORMERS

For Amateur or Intermittent Commercial Service. Pri. for 115* or 230 V. 60 Cy. DC Voltage Ratings are Approx. Values Obtained at Output of 2 Section Choke Input Filter.

| Type No. | Net Price | Sec. Rms. Volts | Sec. DC Volts |
|--------------------------------------|-----------|------------------------|---------------|
| P-4063 | \$66.00 | 3000-3000 2500-2500 | 2500 2000 |
| Sec. DC M.A.: 550, 150. Mtg.: H, D. | | | |
| Dimensions—H 11 1/4", W 7 1/2", D 7" | | | |
| P-3175 | \$5.40 | 550-550 | 400 |
| Dimensions—H 3 9/16", W 3", D 3 3/8" | | | |
| * 115 V. Pri. only. | | | |



See Merit Catalog No. 4911 for other items. Ask your dealer or write

MERIT TRANSFORMER CORP.
4429 N. Clark St., Chicago 40, Ill.

SPECIAL BCG10 CHOKES
11 Henry .600 Amp. Herm. Sealed.
\$7.95

Atronic Corp.
Dept. C-8
1253 Loyola Ave.,
Chicago 26, Ill.

10 METER BEAM ANTENNA
\$15.95
3 ELEMENTS SPECIAL

Volt-Ohm-Milliammeter 0-1 MA. 4" Fan Type. Diagram Incl. Makes 1000 ohm per volt unit. Meter Only \$2.95
METERS—3" PANEL TYPE 0-10 MA. \$2.00

| ARC/5 Xmtrs VFO Drivers 40 Watts Output | MICROWAVE CAT. AVAIL. Superhet Recvrs W/Dyn Can be converted to 110V60cy |
|---|--|
| 3-4 Mc \$6.95 | 190 550 Ke \$6.95 |
| Gibson Girl Xmtr .. 3.49 | 3-6 Mc 4.95 |
| ARR2 Rec 4.95 | 6-9 Mc 4.95 |

Write For Many Others Used Good Cond.

COMMUNICATIONS EQUIPMENT CO.
131 Liberty St., Dept. Q8. New York 7, N. Y.

- Zone 28 VS2BD, 56; PK3MR, 2,340; PK4KS, 19,021.
- Zone 29 VK5AS, 49,446; VK6KW, 12,087.
- Zone 30 VK7LZ, 2,821.
- Zone 31 KH6IJ, 30,300; KH6VP, 9,675; KH6CD, 966.
- Zone 32 ZL4HP, 26,266; ZL1MQ, 4,293.
- Zone 33 ZD4AH, 9,071.
- Zone 36 FQ8SN, 736; CR5UP, 12,250.
- Zone 37 VQ4IMS, 80,370; VQ4RF, 44,304; VQ4SC, 20,394; MI3SC, 23,055; VQ5ALT, 1,218; VQ5WCP, 341; ZS6OV, 56,550; ZS5U, 29,332; ZS3G, 13,611.
- Zone 40 TF3SF, 36.

The following participants, who did not tabulate their scores, sent in logs for checking purposes only, and therefore do not appear in the above listings. Their calls are included here in recognition of their contribution to the success of the contest. Thanks a million, fellows!

C.W. W6ID, W6RIQ, W6ZBY, W6FZC, W7CNM, W0AZT, W1DYV, V010, VE1CU, K64AK, C02AP, VP3YG, PY1DH, CX6AD, G3APV, G6CJ, G2XY, G5WI, G3EEN, G3CNM, G2EC, G5III, G5JF, G8PW, F8BQ, F9SN, SM5AUP, SM5OI, SM2ABH, SM5UI, SM5KN, SM7UJ, SM5AMJ, SM5DZ, SM5CV, DL5BK, DL1YB, DL1QO, LA8J, LA9T, ON4JD, H89III, EA4CQ, OZ5PA, HA5K, Y0BK, VK2NS, VK4CG, VK5KO, KH6LG, KH6VP, ZL1HY, FA9RW, ZS0VII, ZE2JN.

Fone KL7ZM, VESAK, W4NDE, W5SU, W1DYV, W1JTG, W2TVQ, W2VQL, W4KCO, VE2HM, V19G, C02MG, YV5AU, VP3YG, OA4Y, PY6CO, CE2AX, CE1BO, LU4MG, LU3HA, CX2BP, H89CV, ON4UF, F8NV, F3IB, F9LK, DL1EZ, DL1HL, PA0GMU, PA0QJ, I1PM, YK1AC, K66ET, KH6LG, ZL1CH, FF8PG, ZS1CG.

THE LYSCO TRANSMASTER

(from page 21)

and quick to change bands on the Transmaster as it is on the latest communications receiver.

The Output Circuit

The output of the Transmaster appears at a standard coax fitting which may be coupled to a transmission line of 52 ohms impedance, or to an antenna coupler designed to operate from a source of that impedance. If you don't have an antenna coupler on hand, LySCO will be pleased to sell you a neat band-switched coupler to go with the transmitter. It makes a nice combination, and the coupler can be mounted right inside the case of the Transmaster if you don't mind drilling a couple of holes.

Frankly we've had more fun playing with the Transmaster during the past few days than we've had in a long time. There is a great kick to be gotten out of working DX, traffic circuits, or just chewing the rag with a little rig as simple and straightforward as this one. We haven't been able to find any TVI on a receiver whose antenna is about two and one-half feet from our 3.5-mc doublet.

You've guessed it, we like it!

pioneers, deep-mu in tanks times a from R household her second keeps on. Finally back at C get to the major pa and success of the YL

YL of the Just a what became handling distasters— (14). The Bernbaum U. S. Cha Betty an when the drifted into fallen, Piff off and dr below. HC promptly c days and

- ES
- co
- Receivers
- 190-550
- 1.5-3 Mc.
- 3-6 Mc.
- 6-9 Mc.
- 3-Rec. Rac
- 3-Control E
- BC-696, 3-
- T-19, AR
- Mc. ...
- BC-457, 4-
- T-20, ARC
- Mc. ...
- BC-458, 5-
- T-22, AR
- Mc. ...
- BC-456 ...
- MD-7, ARC
- Push-pull
- SCR-522
- ARC-4 Xmtr
- APN-4 Recv
- APN-4 Infil
- APN-1 Xmtr
- APS-13 Xmtr
- BC-645 Xmtr
- ARB Receiver
- EC-375 Tran
- Tuning Units
- BC-223 with
- AS3 series R
- PC-920A Ind
- BC-920A Ind
- APQ 2 HF T

1306 Bond