



Results, 1971 ARRL VHF Sweepstakes

K2OWR

WB2WIK

REPORTED BY AL NOONE, *WA1KQM

TAKE 963 entries (up 10% from 1970), and add average January vhf/uhf conditions. The result adds up to a successful 24th VHF Sweepstakes (January 9-10, 1971).

As usual, conditions were nothing to brag about. Judging from the many reports received, W1s and W3s did experience brief E_s to Eastern Florida, W2s had good to excellent tropo, W5/6/7/8s managed fair to good scatter contacts while W9/0s netted their share of QSOs via groundwave.

Activity, as is evidenced by some of the outstanding scores to follow, certainly was plentiful. K3IPM, the high-scoring single-operator entry, managed 756 contacts in 24 sections for a score of 51,374. Not far behind ran W3MFY with 752 contacts, 17 sections, final score of 40,608. In a close race for third, WA3CAG comes out on top with 34,128 just beating W3KKN, at 33,240. Rounding out the Top Five is W3ZD with 32,100. Canadian high score, with 2112 points, goes to VE2DFO.

Multi-operator entries had a battle of their own with slightly over 5000 points separating 1st and 5th place! Here's how it went: W1JJO, 22,248 points, 412 contacts, 17 sections; W2PAU, 21,840-462-14; K3MTK, 19,116-354-17; WB2LZD/3, 18,112-285-22 and K8BBN, 17,064-237-26.

Competition on the section level was keen, close races for 1st place being recorded in West New York, Indiana, Ohio, East New York, Northern New Jersey and Connecticut.

Out west, where contacts are harder to come by, W0PFP took Iowa over WA0UPS, WA0SLM squeaked by W0AJY to lead Colorado, WA6GYD outclassed the competition in the Santa Clara Valley, K6SSN led the highly-competitive Los Angeles section and finally, K6YNB/6 took the Orange section by a wide margin.

A word of thanks for the many comments and suggestions received with your entries. These will be sent to the ARRL Contest Advisory Committee for their consideration in future contest planning. If you as an individual, or your

club as a whole, has any strong feelings on improving vhf/uhf contests, be sure to write your nearest CAC member today. They are: W1AX, K2KIR, W3GRF (chairman), W3WJD, W4UQ, W6DQX, KH6IJ, W0HP, and VE2NV.

CLUBS

When will it end? Probably never! For the 11th year in a row the MT. AIRY VHF RADIO CLUB takes undisputed possession of 1st place. In the continuing fight for 2nd, SOUTH JERSEY RADIO ASSOCIATION is back by a wide margin over ROCHESTER VHF GROUP, who takes third. The only other scores over 100K were submitted by HAMPDEN COUNTY RADIO ASSOCIATION in forth place over the MOBILE SIXERS RADIO CLUB who had to settle for fifth.

AFFILIATED CLUB SCORES

	Club-Score-Entries-Winner		
Mt. Airy VHF RC (PA)	704,654	78	K3IPM
So. Jersey R Assoc.	397,810	53	W3MFY
Rochester VHF Group (NY)	315,216	142	W2UTH
Hampden Co. R Assoc. (MA)	123,898	53	K1ANF
Mobile Sixers RC (PA)	103,527	27	K3FYX*
Albany ARA (NY)	91,006	69	W2CRS
Talcott Mt. UHF Soc. (CT)	83,230	23	WA1I0X
Suburban ARC (PA)	59,330	8	WA3NVO
1200 Radio Club (MA)	52,567	17	K1MUC
So. Calif. VHF RC	52,320	20	K6YNB/6
Rock Creek ARA (MD)	49,057	28	W3KMV
Whitman ARC (MA)	45,194	30	WA1AGR
Six Meter Club of Chicago	36,794	21	WA9FIH
York Radio Club (IL)	30,412	20	WA9OPM
Greater Pittsburgh VHF Soc.	20,976	14	W3BWU
Norwood ARC (MA)	18,116	7	W1EXC
Wimminster ARC (PA)	17,811	10	WA3JGX
West Park Radiops (OH)	17,642	9	WB8FII
Mid-Hudson VHF Soc. (NY)	14,198	4	K2BGU
Dayton ARA (OH)	13,926	9	W8ZOF
Gloucester Co. ARC (NJ)	9236	3	W2LVW
Queen City Emergency Net (OH)	8668	3	WA8STX
Dutchess Co. VHF Soc. (NY)	8136	4	WB2HXZ
Scioto Valley ARC (OH)	7318	7	K8SUB
Lake Success RC (NY)	5970	3	W2TUK
Rancocas Valley ARA (NJ)	5236	3	WB2PZF
Antietam RA (MD)	5134	5	WA3NUL
Vienna Wireless Soc. (VA)	4466	5	K4YCH
Parma RC (OH)	4432	5	K8NQW
Tu-Boro Radio Club (NY)	4336	6	K2HGR
Hamfesters RC (IL)	3818	3	WA9FXH
Mid Island RC (NY)	3414	3	W2SEU
Delaware Valley RA (NJ)	2654	3	WB2LGJ†
Central Michigan ARC	2570	7	WA8DSV
Argonne ARC (IL)	2436	4	WA9KQD
Central Illinois ARC	594	3	K9ORP

* tied with WA3NCW

† tied with WB2PW†

* Asst. Communications Mgr., ARRL.

1972 VHF SS

Jan. 8-9

SOAPBOX

Not much cw activity on 2 meters, I was disappointed. — K9UNM,IN. I enjoyed the January contest, but didn't have any help from skip conditions. — WA4WZQ,NC. Most consistently heard DX signals were K5WVX and W4GDS (scatter) and K9HMB (tropo). — K8BBN,OH. Believe hours worked should be included in *QST* listing—makes scores more interesting for low band contests, so why not VHF? — WA2BCT,MA. I worked Maine and Maryland for the first time. — WA2FUI,NJ. Tropo conditions during the contest were poor to average most of the time, with good to excellent on Saturday evening at about midnight local time. Meteor scatter was nonexistent here on 144 MHz, but we did work four or five scatter stations via ssb on 50 MHz. — WB2WIK,NJ. Plaudits to W2BV who had by far the loudest and best signal on 144 MHz. — W3HB,MD. No real DX heard here at all. — WB2HXZ,NY. I was extremely impressed by the high level of courtesy and good sportsmanship demonstrated by all stations heard. There was a great deal of competition between stations, yet those competing were bending over backwards not to QRM one another. A fine example of the first article of the Amateur's Code in action and a credit to all concerned. — WA6UAM,CA. Many operators participated and several contacts were made. — WA4VMF,GA. Thanks for another good contest, both of us had a real ball! — WA1MAG,VT. Contests are what make VHF, how about one or two more per year? — WB4LDO,NC. Activity, to my surprise and delight, was much heavier than anticipated. Possibly something could be done to encourage activity on the bands above 144 MHz. — WB2HEO,NJ. The only scatter was WØPFP at 1340 GMT on Sunday. A North Carolina station was heard but not worked. — WA3HUR,PA.

DIVISION LEADERS

<i>Single Op.</i>		<i>Multiop.</i>
K3IPM	Atlantic	W2PAU
K9HMB	Central	K9YHB
WAØWZY	Dakota
WB4RHB	Delta
WB8BGY	Great Lakes	K8BBN
WB2SIH	Hudson	WB2YZV
WØPFP	Midwest	WAØZWF
KIPXE	New England	W1JJO
K7WXW/7	Northwestern	K7BBO
WA6GYD	Pacific	W6PIY/6
K4LHB	Roanoke	WA4WZQ
WAØSLM	Rocky Mt.
W4GDS	Southeastern	WA4NPJ/4
K6YNB/6	Southwestern	K6HXW/6
K5WVX	West Gulf	WA5HNK
VE2DFO	Canadian	VE3ASO

This was my first sweepstakes and I enjoyed it. — WB9EDP,IL. I wish the stations would be on the air at other times too, not only on contests. Almost every evening is CQ time with beams to the south from Montreal between 2000 and 2100 GMT. Stations to look for are VE2FF, VE2BHH and VE2AEB between 144.0 and 144.2 MHz. — VE2BHH. Good contest as far as it went. Too bad there wasn't a little skip to make it interesting. Good meteor scatter here in northern California. Worked K7OST in Seattle, WA7GCS in Oregon and VE7AEZ heard my CQ and called me but faded. — WB6JON,CA. The conditions into this area were very erratic, there was a lot of "shot effect", or scatter but not holding long enough to make the contact. — WAØZWF,IA. I would like to see a scoring adjustment made so it would be more of a countrywide contest. — K8YYK,OH. Contest pretty slow here, good groundwave, some solid skip at times lasting for 10 minutes and very sporadic weak scatter from W1/2/3s. — K4BPY,AL. Activity was good but could still be a lot better. Conditions were fairly good for January. Lack of good 2 meter equipment held my score down but I hope to remedy this by June. — W3KMV,MD. Some consideration to a power multiplier should be made. In a ground-wave contest such as this was, without power and a good antenna system, it's impossible to win. I would be interested in the power levels used by the winners in the various sections. — WB8HXR,OH. Conditions were good for random scatter and ground wave, but no openings observed. K4PKV,SC. Really enjoyed the SS this year. Six meters was bedlam most of the time, including the "instant sporadic-E" to the East Florida section. — WB2LAI/1, RI.

SCORES

In the tabulation to follow, scores are listed by ARRL division and sections. Unless otherwise noted, the top scorer in each section receives a certificate award. An asterisk denotes a Hq. staff member, ineligible for an award. Columns indicate final score, number of contacts, number of different sections worked, and bands used. A represents 50 MHz, B 144 MHz, C 220 MHz, D 420 MHz, E 1296 MHz and above. Multioperator stations are shown at the end of each section tabulation.

K9ZNK, sporting an impressive home-brew aluminum tower and stacked J-beams on 144 MHz, puts out a good signal from Indiana.

ATLANTIC DIVISION
Delaware

W3CGV 4284-102-11-ABCD
K3RBU 2412- 67- AB

Eastern Pennsylvania

K3IPM 51,374-756-24-ABCD
W3MFY 40,608-752-17-ABCD
W3KKN 33,240-554-20- ABC
W3ZD 32,100-535-20- ABC
K3IUV 23,193-430-17-ABCDE
W3HFY 19,228-418-13-ABCD
WA3AXV 19,032-366-16-ABCD
W3CL 19,008-432-12- ABC
K3ZSG 18,564-357-16-ABCD
WA3NVO 16,800-420-10- ABC
K3JJZ 15,939-380-11-ABCD
K3BPP 15,594-339-13-ABCD
K3FYX 15,498-189-31- AB
WA3NCW 15,498-189-31- AB
K3EOD 15,318-333-13- ABC
W3IZU 14,448-301-14- ABC
W3CJU 14,022-369- 9-ABCD
WA3NGK 13,046-297-12- AB
WA3EPS 12,560-314-10- AB
W3CCX (W3A0O, opr.)
12,540-330- 9- ABC

W3AJF 11,172-266-11- ABC
K3GAS 11,080-277-10-ABCD
K1SFF/3 11,000-275-10-ABCD
K3KMN/3 10,675-214-15- ABC
W3ETB 10,640-280- 9- AB
W3SMK 10,584-252-11- AB
WA3NLU 10,550-211-15-
W3GEW 10,548-293- 8- ABC
WA3BIV/3 10,488-229-13- A
WA3LNH/3 10,038-239-11- AE
K1JDY/3 9821-214-13- A
K3IGX 9800-245-10- AC
K3KTY 9660-230-11- ABC
W3ELX 9652-254- 9- ABC
WA3JFL 925-257-58- AB
K3ATL 9198-220-11- AB
WA3JMM 9120-240- 9- AB
K3XMX 9030-301- 5- ABC
WA3NFV 8993-265- 7- ABD
WA3IMT 8968-236- 9- AB
WA3DNC 8184-186-12- AB
K3OBY 8160-255- 6- ABC
K3UDJ 7106-187- 9-ABCD
K3ZPQ 7040-176-10- AB
WA3PNW 6762-161-11- A
W3HK 6480-162-10- ABC
K3WEU 6468-147-12- AB
K3YPL 6468-147-12- AB
K3GQJ 6300-150-11- AC
K3BOY 6144-192- 6- AB
W3JMM 5950-175- 7- A
K3EPB 5936-212- 4- ABC
W3FQD 5700-190- 5- ABC
W3PS/T/3 5516-197- 4- AB
W3YXU/3 5460-195- 4- AB
WA3ERQ 5348-191- 4- AB
K3NMN 5236-187- 4- AB
WA3BHE 4944-103-14- AB
W3YXF 4824-135- 8- AB
WA3LGC 4800-160- 5- AB
W3NSI 4716-131- 8-ABCD
K3DMA 4524-174- 3- AB
WA3JGX 4382-157- 4- AB
WA3IDQ 4212-162- 3- AB
K3OPC 4108-158- 3- AB
W3DYL 4032-112- 8- AB
K3HSS 4005-134- 5- ABC
W3CXU 3564- 81-12- BC
WA3FEH 3328-104- 6- AB
WA3NLJ 3296-103- 6- AB
WA3IGY 3230- 85- 9- AB
WA3KFT 3192-114- 4- AB
K3ZIG 3094-119- 3- A
W3SLW 3081-119- 3- AB
K3DLS 3024-126- 2- ABC
W3BRU 3000-100- 5- A
WA3HIT 2952-123- 2- AB
WA3ICO 2856-102- 4- A
WA3JNF 2850- 95- 5- A
W3FGQ 2756-106- 3- AB
WA3NYZ 2688-112- 2- A
WA3JSR 2678-103- 3- AB
W3GBH 2664-111- 2- A
WA3MHF 2610- 87- 5- A
WA3MTB 2668-107- 2- A
W3ZRR 2256- 94- 2- AB
W3WIJ 2040- 85- 2- A
WA3JUL 1976- 76- 3- A
WA3OSS/3 1920- 80- 2- AB
W3NHX 1800- 75- 2- AB
WA3MRU 1742- 67- 3- A
K3ACR 1704- 71- 2- A
WA3GNV 1690- 65- 3- B
K3IYA 1560- 61- 3- A
K3UST 1536- 64- 2- A
WA3NAO 1456- 56- 3- A
K3VEQ 1260- 45- 4- B
WA3IEL 1200- 50- 2- A
K3ZKO 1170- 45- 3- ABD
WA3PJM 1128- 47- 2- A
K3IFH 1056- 44- 2- A
WA3HJM 1008- 42- 2- B
K3AIA 948- 40- 2- A
WA3PCS 800- 25- 6- A
WA3NXK 744- 31- 2- A

WA3KSK

720-

30-

2-

A

WA3MDP

672-

28-

2-

A

WA3NXL

624-

26-

2-

A

WA2UUW/3

552-

23-

2-

A

WA3OSS

504-

21-

2-

AC

K3ZLL

432-

18-

2-

A

K3GZT

288-

12-

2-

A

K3ZAC

264-

12-

1-

A

WA3HFJ

240-

10-

2-

A

WA3PSA

240-

10-

2-

A

WA3HWD

198-

9-

1-

A

WA3HOW

272-

11-

1-

A

WA3GQP

154-

7-

1-

A

K3IDM

44-

2-

1-

A

K3MTK (4 oprs.)

19,116-

345-

17-

ABC

WB2LZD/3 (5 oprs.)

18,112-

285-

22-

AB

K3PGB (+WA3AAAN)

14,352-

276-

16-

A

WA3FOF (4 oprs.)

9760-

244-

10-

ABC

K3IEC/3 (10 oprs.)

8988-

161-

18-

ABD

K3YFD (3 oprs.)

6690-

223-

5-

AB

K3WGGK (+K3WGK)

2678-

103-

3-

ABC

K3WKG (+K3WGJ)

2678-

103-

3-

ABC

Maryland-D.C.
WB2LZD/3 (5 oprs.)

9760-

244-

10-

ABC

K3PGB (+WA3AAAN)

14,352-

276-

16-

A

WA3FOF (4 oprs.)

9760-

244-

10-

ABC

K3IEC/3 (10 oprs.)

8988-

161-

18-

ABD

K3YFD (3 oprs.)

6690-

223-

5-

AB

K3WGGK (+K3WGK)

2678-

103-

3-

ABC

K3WKG (+K3WGJ)

2678-

WA3DLY		364- 14- 3- AB	MICHIGAN	WB2VJB	528- 24- 1- B	NEW ENGLAND DIVISION		
W3KVS		240- 10- 2- A	WB8BGY	7280-182-10- AB	WB2JLR	442- 17- 3- AB		
W2EWV		144- 6- 2- A	WA8YYW	4288-134- 6- B	W2TMM	418- 19- 1- AB		
W8VTD/3 (6 oprs.)		4408-116- 9- AB	K8HWV	2656- 83- 6- AB	K2KTJ	390- 15- 3- A		
CENTRAL DIVISION		WA8PST	1110- 37- 5- AB	WB2PUH	384- 16- 2- A	KIPXE 19,082-331-19- ABD		
Illinois		K8AJC	728- 28- 3- A	WB2JLR/2	374- 17- 1- B	WA1IOX*(K1ZND, opr.)		
K9HMB		14,280-238-20-ABCD	WB8AT/8	704- 32- 1- AB	WA2MGU	363- 17- 1- B	17,874-331-17- ABD	
WA9FIH		7980-266- 5- ABD	K8ZKH	696- 29- 2- B	WA2VQZ/2	360- 15- 2- AB	K1HTV 15,438-249-21- B	
WA9ENM		6984-194- 8- AB	W8CKK	594- 27- 1- B	WA2BAH/2	338- 13- 3- AB	WA1FFO 14,508-279-16- AB	
WA9OPM		4256-152- 4- AB	K8HXW	480- 20- 2- B	WB2KL	330- 15- 1- B	WA1JLJ 12,369-200-21- AB	
K9ZWU		4082-157- 3- ABCD	W8IDT	352- 16- 1- B	WB2GII/2	312- 12- 3- A	K1ZFE 9591-209-13- A	
WA9RJU		3948-141- 4- AB	WB8WVU	312- 13- 2- AB	WB2JW/2	308- 14- 1- B	WA1IND 5038-115-12- AB	
W9DJZ		3920-140- 4- AB	WB8IDD/8	220- 10- 1- B	WB2HH/2	308- 14- 1- B	WA1KMS 4704-112-11- A	
K9ZVV		3900-150- 3- ABCD	W8VIC	154- 7- 1- AB	WB2GII/2	312- 13- 2- B	WA1HDQ* 3768- 80-14- AB	
K9DTB		3390-113- 5- AB	K8WEX	66- 3- 1- AB	WB2KLY/2	242- 11- 1- B	K1KKK 2730- 91- 5- AB	
WA9FXH		2760- 92- 5- B	WB8FHC/8 (+WB1DZ)	1066- 44- 3- AB	WB2KLY/2	240- 10- 2- A	WA1ILIO 1870- 55- 7- A	
WA9NRJ		2604- 93- 4- B	WB2JYJ	220- 10- 1- B	WB2JYJ	220- 10- 1- B	WIWHL 1856- 58- 6- AB	
WA9GUE		2460- 82- 5- AB	WB2JZRE	168- 6- 4- AB	WB2JZRE	168- 6- 4- AB	K1YON 1764- 42-11- A	
K9ENZ		2430- 81- 5- AB	WB2GFP	154- 7- 1- B	WB2GFP	154- 7- 1- B	K1ZTD 1680- 42-10- A	
K9YJQ		2392- 92- 3- AB	WB8GZQ	6460-162-10- AB	WB2CLF/2	154- 7- 1- B	WA1QJL 1680- 60- 4- B	
WB9EDP		2159- 64- 7- A	WB8FII	6156-162- 9- AB	WB2OHQ/2	132- 6- 1- B	WA1KJM 1456- 56- 3- AB	
WB9EJS		1950- 65- 5- B	K8YVK	5400-150- 8- AB	K2BUV	110- 5- 1- B	WB1NMMY 980- 35- 4- B	
W9IVI		1888- 59- 6- B	WA8STX	3660-122- 5- AB	WB2KZN	110- 5- 1- B	WA1IAO 910- 35- 3- B	
WA9TW		1736- 62- 4- B	WB8HXR	3040- 80- 9- A	WB2HH	110- 5- 1- AB	WA1GOI 720- 30- 2- B	
WA9UCX		1584- 66- 2- AB	W8ZOF	3008- 94- 6- AB	WB2L梓	66- 3- 1- B	WIHAX 648- 27- 2- B	
WA9YJT		1440- 60- 2- AB	WB8HQK	2788- 83- 7- AB	WB2BZE	66- 3- 1- AB	WA2INB/* 644- 23- 4- B	
K9KMK		1400- 50- 4- B	K8PB	2686- 79- 7- AB	WB2PNB	22- 1- 1- A	WA1ISD 572- 22- 3- B	
W9ZYL		1364- 62- 1- B	WB8BOB	2550- 75- 7- AB	WB2VJB/2	22- 1- 1- B	W1PRT 456- 19- 2- B	
WB9AXH		1287- 57- 1- B	K8SUB	2482- 73- 7- AB	WB2WJR	22- 1- 1- B	WA1JZC/1 448- 14- 6- A	
K9DNW		1232- 56- 1- AB	K8HRR	2304- 72- 6- AB	WB2RBG (+WA2EAH)	8788-170-16- AB	WIRN 288- 12- 2- B	
WA9NXM		1144- 52- 1- AB	W8WEN	2244- 51-12- AB	VK1ZAR/W2 (7 oprs.)	7240-185-10- AB	K1BGG 168- 7- 2- A	
WB9BOH		1100- 50- 1- A	WB8AMI	2220- 74- 5- AB	WA2YJF/2 (+WA2FUZ)	4704- 98-14- ABD	WN1MMZ 144- 6- 2- B	
W9OOA/9		1040- 40- 3- B	WA8WMP	2176- 68- 6- AB	WA2BRA (+WA2as EAH VQZ)	4704- 98-14- ABD	G3XPM/W1 132- 6- 1- B	
W9GYN		836- 38- 1- B	W8JRN	1950- 75- 3- AB	WB2DXM (+WB2HH)	1170- 45- 3- AB	WA1LWQ 22- 1- 1- A	
WA9MSZ		728- 28- 3- B	WA8ZUQ	1904- 68- 4- AB	WB2LZZ (+WA2EAH VQZ)	1128- 47- 2- AB	K1RJH (+WA3EOQ) 7176-138-16- B	
K9ONA		704- 32- 1- AB	WB8BBP	1736- 62- 4- AB	WB2YPN	910- 35- 3- AB	KIMUC 9724-188-16- AB	
WA9KQD		696- 29- 2- B	WB8CFN	1296- 54- 2- A	W2YPN (2 oprs.)	7240-185-10- AB	W1EXC 7550-151-15- A	
WA9YZO		682- 31- 1- B	WA8TYB	1204- 43- 4- A	W2YPN/2 (2 oprs.)	767- 30- 3- B	WA1GVH 7296-152-14- A	
W9AVE		660- 30- 1- B	WA8AKK	1170- 45- 3- AB	WA2BRA	2080- 55-10- A	WA1NNW 6532-142-13- A	
W9NEUW		638- 29- 1- B	WA8ZVV	1152- 48- 2- AB	WB2TUT	504- 21- 2- B	KICHY 5868-164- 8-ABCD	
W9KBU		550- 25- 1- B	WB8FOZ	1100- 50- 1- A	WB2FLH	2272- 71- 1- B	WA1AGR 4320-108-10- AB	
WA9RER		528- 24- 1- AB	WA8IHC	924- 33- 4- A	K2OVS	1836- 61- 8- BD	WA1MKE 3488-109- 6- AB	
K9DKI		506- 23- 1- A	WB8IPT	912- 38- 2- AB	WB2LZZ (+WA2EAH VQZ)	1128- 47- 2- AB	WA1FCD 3450-115- 5- AB	
WA9IRZ		506- 23- 1- AB	WA8KQO	832- 32- 3- AB	WB2YPN	910- 35- 3- AB	WA1JAI 3315-111- 5- AB	
WA9OWF		494- 19- 3- B	WB8BWB	792- 33- 2- A	W2TUK	5502-131-11- AB	WA1LFS 3200-100- 6- AB	
W9PMF		462- 21- 1- AB	WA8AJW	780- 26- 5- AB	WB2SEU	3450- 75-13- AB	WA1MSK 3195-108- 5- AB	
WA9RIF		418- 19- 1- B	WA8MEM	750- 25- 5- A	WB2KXG	2788- 82- 7- ABC	WIEHS 3192- 76-11- AB	
WA9WIB		352- 16- 1- A	WB8RKT	744- 31- 2- AB	WB2BNS	2618- 75- 6- B	WA1IVN 3000-100- 5- AB	
WA9IWU		330- 15- 1- A	WA8AUO	672- 28- 2- A	WB2TUT	2400- 75- 6- B	WA1HFH 2912- 91- 6- AB	
WB9ARV		308- 14- 1- B	WB8FYM	510- 17- 5- AB	WB2FLH	2144- 67- 6- B	WA1AXK 2880- 96- 5- AB	
W9OKI		286- 13- 1- B	K8WUD	440- 20- 1- A	K2OVS	1836- 61- 8- BD	KIUMP 2820- 94- 5- AB	
W9MJ		264- 12- 1- B	WB8EFZ	440- 20- 1- A	WB2ZPK	8602-187-13- B	WA1HRG 2728- 62-12- B	
K9ZWU/9		242- 11- 1- AB	WB8KSE	374- 17- 1- A	WB2ZPK	5502-131-11- AB	WA1MGC 2460- 82- 5- AB	
K9ORP		220- 10- 1- B	WB8BOV	352- 16- 1- B	WB2TUK	3450- 75-13- AB	WA1KGR 2272- 71- 6- AB	
K9ZVV/9		220- 10- 1- AB	WB8KZH	330- 15- 1- A	WB2SEU	2788- 82- 7- ABC	WA1WHS 3192- 76-11- AB	
WA9BKB		198- 9- 1- B	WA8RLB	308- 14- 1- AB	WB2KXG	2618- 75- 6- B	WA1IVN 3000-100- 5- AB	
WA9LFR		198- 9- 1- B	K8RXD	288- 12- 2- B	WB2BNS	2400- 75- 6- B	WA1HFH 2912- 91- 6- AB	
W9LMJ		176- 8- 1- B	WA8TYF	242- 11- 1- ABD	WB2TUT	2272- 71- 1- B	WA1AXK 2880- 96- 5- AB	
WB9BGY		176- 8- 1- B	WB8HBZ	198- 9- 1- B	WB2FLH	2144- 67- 6- B	KIUMP 2820- 94- 5- AB	
WA9NTA		154- 7- 1- A	WA8LLG	192- 8- 2- A	K2OVS	1836- 61- 8- BD	WA1HRG 2728- 62-12- B	
K9YST		132- 6- 1- AB	WA8ROK	66- 3- 1- A	WB2ZOGM	1360- 41- 7- B	WA1MGC 2460- 82- 5- AB	
W9DCF		110- 5- 1- A	K8BBN (+K8UQA)	17,064-237-26- A	WB2ZOGM	1360- 41- 7- B	WA1KGR 2272- 71- 6- AB	
WA9FIH/9		110- 5- 1- AB	WB8GIW (+K2ZAT)	4767-114-11- B	WB2ZOGM	1360- 41- 7- B	WA1WHS 3192- 76-11- AB	
K9SZT		44- 2- 1- A	WB2JYJ	18,260-418-25- ABC	WB2ZOGM	1360- 41- 7- B	WA1IVN 3000-100- 5- AB	
K9YHB (6 oprs.)		6304-199- 6- ABD	WB2SIH	20,610-345-20- AB	WB2ZOGM	1360- 41- 7- B	WA1HFH 3126- 51- 3- AB	
W9BGX (3 oprs.)		6176-194- 6- AB	WB2JYJ	20,610-345-20- AB	WB2ZOGM	1360- 41- 7- B	WA1WHS 3126- 51- 3- AB	
WA9BRE (2 oprs.)		816- 34- 2- B	WB2JYJ	20,610-345-20- AB	WB2ZOGM	1360- 41- 7- B	WA1HFH 3126- 51- 3- AB	
WA9CJN (2 oprs.)		312- 13- 2- B	WB2JYJ	20,610-345-20- AB	WB2ZOGM	1360- 41- 7- B	WA1HFH 3126- 51- 3- AB	
Indiana		WA1MUG/2	18,240-304-20- AB	WB2CRS	18,240-304-20- AB	WB2ZOGM	1360- 41- 7- B	WA1HFH 3126- 51- 3- AB
K9EKI		4160-104-10- AB	WB2DT	11,658-202-19- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
K9QCB		3604-106- 7- AB	K2B2G	7250-145-15- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
W9GMJ		2816- 88- 6- B	WB2DT	5428-118-13- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
K9LSB		2178- 61- 8- AB	WA1GFG/2	4978-131- 9- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
WA9PKL		1512- 42- 8- AB	K2G2SF	4120-103-10- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
K9UNN		1148- 41- 4- B	WB2HXZ	4048- 88-13- BCD	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
W9BF (5 oprs.)		5004-139- 8- AB	WA2BER	3420- 95- 8- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
WA2ROJ/9 (+WA2MZG)		3520-110- 6- AB	WB2WXR	3360- 80- 11- A	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
K9ZNK (3 oprs.)		2272- 71- 6- B	WB2VZB	3040- 80- 9- B	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
W9BZN (WA9s QGL TN1)		1400- 50- 4- AB	WB2WSP	2604- 62- 11- AB	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB	
Wisconsin		WB2ZCM/2	2596- 59-12- A	WB2VZB	2006- 59- 7- B	WB2CRS	18,240-304-20- AB	WA1HFH 3126- 51- 3- AB
WA9SDC		4200-100-11- AB	WB2WSP	2310- 77- 5- AB	WB2VZB	1768- 52- 7- AB	WA1HFH 3126- 51- 3- AB	
W9DJ		168- 7- 2- B	WB2GXM	1960- 70- 4- AB	WB2WSP	1200- 30-10- D	WA1DDP 600- 20- 5- B	
DAKOTA DIVISION		WB2GXM	1820- 65- 4- AB	WB2GXM	1095- 37- 5- B	WA1MDW 550- 25- 1- B		
Minnesota		WB2GXM	1300- 50- 3- AB	WB2GXM	1020- 34- 5- AB	WA1JUY (WA1IIR, opr.) 528- 22- 2- A		
WA0WZY		1272- 53- 2- AB	WB2ZCM/2	1080- 45- 2- B	WB2GXM	672- 24- 4- B	WA1IITZ 480- 20- 2- A	
WA0ZMR/9		550- 25- 1- A	WB2FWK/2	1008- 28- 8- A	WB2GXM	672- 24- 4- B	K1MNO 456- 19- 2- B	
WA0URL		384- 16- 2- AB	WA2EAH/2	1064- 38- 4- AB	WB2GXM	672- 24- 4- B	K1EFR 418- 19- 1- A	
K9EDS		176- 8- 1- AB	WA2NBX/2	1040- 40- 3- AB	WB2GXM	672- 24- 4- B	K1TC 360- 15- 2- A	
DELTA DIVISION		WA2NBX/2	1032- 43- 2- A	WB2GXM	672- 24- 4- B	WA1IZO 286- 11- 3- BD		
Louisiana		WB2FWK/2	1020- 34- 5- BD	WB2GXM	672- 24- 4- B	WA1KXQ 264- 11- 2- A		
WA5QBX		1024- 32- 6- A	WB2FWK/2	1008- 28- 8- A	WB2GXM	672- 24- 4- B	K1MPZ 240- 10- 2- AB	
K9IHP		924- 33- 4- A	WA2FWK/2	952- 34- 4- A	WB2GXM	672- 24- 4- B	K1YBS 192- 8- 2- A	
Tennessee		WB2FWK/2	900- 30- 3- BD	WB2GXM	672- 24- 4- B	WA1DP 600- 20- 5- B		
WB2RHB		2090- 56- 9- AB	WB2FWK/2	884- 34- 3- AB	WB2GXM	672- 24- 4- B	WA1MDW 550- 25- 1- B	
GREAT LAKES DIVISION		WB2FWK/2	744- 31- 2- AB	WB2GXM	672- 24- 4- B	WA1JUY (WA1IIR, opr.) 528- 22- 2- A		
Kentucky		WB2FWK/2	650- 25- 3- B	WB2GXM	672- 24- 4- B	WA1IIO 286- 11- 3- BD		
K4WYN		1440- 40- 8- A	WB2FWK/2	600- 25- 2- AB	WB2GXM	672- 24- 4- B	WA1KVKW (+WB2VUO) 15,090-252-20- AB	
Michigan		WB2VJB	528- 24- 1- B	WB2				

PACIFIC DIVISION							
<i>East Bay</i>							
WA6JUD/6 (+W6YKM)							
3276-182- 8- AB							
<i>Maine</i>							
VIYTW	4872-102-14- ABC	WB6RIV/7	532- 19- 4- A	WA6DSN	1170- 39- 5- A	WA5ZUC	576- 24- 2- AB
VIZKL	364- 13- 4- B			WA6ZNP	806- 31- 3- A	W5RKC	264- 11- 2- A
<i>New Hampshire</i>							
<i>Sacramento Valley</i>							
VIJSM	3172- 61-26- B	WB6NKO	1770- 59- 5- AB	WA6MWT	784- 28- 4- A	K6HXW/6 (3 oprs.)	Oklahoma
VIKBM	2720- 68-10- B	WB6NKM	675- 24- 5- B	WA6OSD	672- 24- 4- A	3400-100- 7- ABC	K5WVX
VIKXV	1734- 51- 7- AB	W6LLP	336- 14- 2- B	K6HXW/6 (3 oprs.)	780- 33- 2- AB	K5CBA	3120- 61-16- A
VIASFSZ	1152- 32- 8- ABD			W6VPZ (7 oprs.)		W5FMX	576- 24- 2- AB
VIUDB	312- 13- 2- A	K6JKQ	782- 23- 7- AB			242- 11- 1- A	
VI2BMV/1	240- 10- 2- A						
VIJJO (6 oprs.)	22,248-412-17- ABC						
VA1JSD (+WA1CFT)	1530- 51- 5- A	WA6GYD	2850- 95- 5- ABC				
<i>Rhode Island</i>							
VA1NSI	9048-174-16- A	WA6UAM	2296- 82- 4- B	WA6AOX	6208-194- 6- AB	WA5HNK (3 oprs.)	1300- 35-10- AB
VB2LAI/1	5377-143- 9- AB	WB6JON	1740- 58- 5- AB	WA6OZC	5440-170- 6- AB		
VI1CPC	2550- 85- 5- AB	K6DTR	1110- 37- 5- AB	WB6RAL/6	3750-125- 5- AB		
VI1FEO	600- 20- 5- AB	W6RME	1020- 34- 5- BC	WA6OLE	3720-124- 5- AB		
VA1HXX	120- 5- 2- B	WB6LLD	962- 38- 3- B	WB6ASR/6	2688- 96- 4- AB		
VI2GZH/1	48- 2- 2- A	W6BGJ	572- 22- 3- B	WA6BFH/6	2340- 90- 3- AB		
<i>San Joaquin Valley</i>							
VA1JSD (+WA1CFT)	1530- 51- 5- A	K6GS/6	420- 15- 4- AD	K6IBY	1024- 32- 6- AB	VE2DFO	2112- 44-14- B
<i>Santa Clara Valley</i>							
VA1JSD (+WA1CFT)	1530- 51- 5- A	W6PIY/6 (5 oprs.)	3660-122- 5- AB	W6MHB (WB6QVY, opr.)	408- 17- 2- AB	VE2BHH	480- 16- 5- B
<i>Orange</i>							
<i>Southern Texas</i>							
VA1JSD (+WA1CFT)	1530- 51- 5- A						
<i>Canadian Division</i>							
<i>Quebec</i>							
<i>Ontario</i>							
<i>San Diego</i>							
W6QED	3162- 93- 7- AB			VE3DSS	1536- 48- 6- B		
<i>West Gulf Division</i>				VE3EMS	1536- 48- 6- B		
<i>Northern Texas</i>				VE3WL	532- 19- 4- A		
<i>British Columbia</i>				VE3ASO (+VE2BD)	7800-150-16- ABD		
KSUGM	1188- 46- 4- AB			VE7ANP	264- 11- 2- A		

QST

Motor-Speed Control

(Continued from page 35)

proper-size coil form. The coil may be wound separately, however, and in this case a capacitor with a 200-V rating will be adequate for C1. These components, as well as the diac, the other capacitors and the fixed resistor, may be mounted by their leads on tie-point strips.

Checkout and Operation

Once construction is completed, there are no setup adjustments to be made, and no particular precautions need be observed during operation except that the case of the gadget should be grounded. If you wish to make some voltage checks with the circuit in operation, use *extreme* caution, to be sure that test leads don't become shorted together and that no unwanted contacts are made to a "hot" chassis. A load must be connected into the ac receptacle for these checks. Without such a load, there is no return path for current flow to the power line and no voltage can be developed across the triac — in other words, nothing happens. If you measure the voltage across the load, you'll likely get some surprising results if a VTVM is used. Most of these meters for general-purpose use are peak-reading instruments with scales calibrated in rms for a sine-wave voltage. The voltage you'll be measuring at slightly reduced motor speeds is not a sine wave, and although its power content is reduced from maximum, the peak value of the voltage remains the same or may increase slightly because of switching transients.

The writer wishes to acknowledge that some of the circuit ideas used in this device were obtained from RCA's *Solid-State Hobby Circuits Manual*, Technical Series HM-91, 1970, and Motorola's brochure, *Home Handyman's Construction Projects*, No. HMA 37, March, 1970.

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✓1DC (3 oprs.) 1800- 60- 5- A

✓A1EEC (+WA1LUV) 1050- 35- 5- AB

✓A1JSD (+WA1CFT) 1530- 51- 5- A

✓A1JSD (+WA1CFT) 1530- 51- 5- A