

# 22nd ARRL Sweepstakes Results

## Part II—Phone and Club Totals

BY ELLEN WHITE, W1YYM

THE ROLICKING RESULTS of the c.w. portion of the 22nd SS, as reported this *QST* past, are still food for much discussion. But now's the time for phone fanciers with a penchant for SSing to take their turn at demonstrating big doings in the 1955 Sweepstakes.

A six per cent increase in activity is noted in the 425 logs from 67 sections. Conspicuous by their absence were entrants from Alaska, Hawaii, the West Indies, Nevada, Canal Zone and British Columbia. Nevertheless, K2AAA W3VKD and W5LPG made two-ways with all 73.

K2AAA brought down the house with a new phone scoring record of 184,398 points, almost 3000 points greater than W6AM's 1954 dazzler. Leading their respective call areas pointwise are: W1YWU K2AAA W3VKD W4ODR W5LPG W6NJU W7ESK W8AJW W9OMM W0NPR V06AM VE2JR VE3AML VE4EF VE5VZ VE6MJ and VE8NT.

Evidence of increased activity is indicated by the number of stations achieving 50,000 or more points. There were 32 such in 1954, as compared to 17 in 1953. Orchids to the following 49 who made this grade in '55: W1s FZ GKJ JEL TRX YWU ZKE<sup>1</sup>, W2ICE, K2AAA, W3s DHM VKD YRK, K3BWJ, W4s BAN CBQ FGH GUV ODR PJU YTO, W5s, DQK HQR KC KNA/5 LPG ZED<sup>1</sup>, W6s CBE NJU QEU VVZ<sup>1</sup>, K6s BWD DAC EVR, W7s ESK OVA UZR ZZA, W8s AJW DUS KZH MNY<sup>1</sup>, W9s OMM TJP, W0s BCF EIB LXA MPH NPR PRZ VKI.

By dint of fast and fancy phone work, four

hardy hams acquired 100,000 or better points. Step up and meet K2AAA, W6NJU, W7ESK and W8AJW!

*QST* researcher WØIUB reveals other interesting facts of an SS turn. For instance, those stations making 500 or more contacts these past six years include the following. Calls in boldface



indicate participation in and results of last year's SS vocalizing: W6QEU 854, W6OGZ 853, K2AAA 848, W6AM 835, W6QEU 807, W6QEU 805, W6ITH 780, W6OGZ 703, W4HQN 655, W6QEU 616, W3VKD 612, W7PUM 569, W8AJW 544, W9NDA 530, W4HQN 520, W7ESK 512, W3JNN 511, WØEDX 505, K2AAA 504, W6NJU 504.

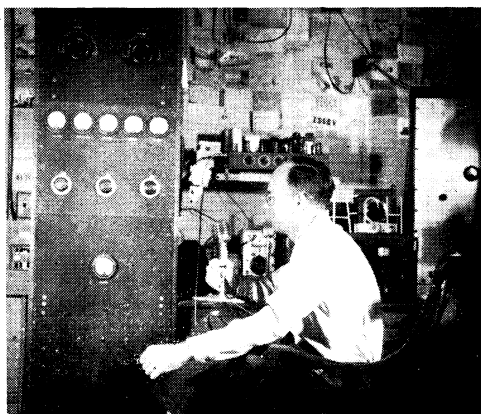
Particular attention to operation on 75, 40 and 20 continues to be part of the section winner's formula. However, 15 meters is a new popular choice for "far-away sections."

The Potomac Valley Radio Club earned its sixth Sweepstakes gavel, barely easing out Frankford Radio Club competition. An approximate

<sup>1</sup> Multioperator station.



Working DX, collecting antique wireless gear, producing top-notch slides recording the history and development of amateur radio, appointments as OO OBS OPS, etc., haven't kept W2ICE from winning a W. N. Y. certificate these past five years. Kelley's big signal is a part of most oral operating events.



Georgia's W4FGH "on the banks of the Okapilco creek in the heart of the Okapilco swamp" garnered Ga. glory with gear galore, namely: KW a.m. rig with 250THs, KW s.s.s.c. transmitter, 300-watt 813 amplifier, 144-Mc. equipment; 70' high ground plane, 40-meter reversible fixed beam, 510' long wire, etc.

# PHONE WINNERS, 22ND A.R.R.L. SWEEPSTAKES CONTEST

Section	Call	Score	Transmitting Equipment	Receiving Equipment	Bands Used
E. Penna.	W3DHH	71,208	DX100	HRO50T1	10, 15, 20, 40, 75
Md.-Del.-D. C.	K3WBJ	68,352	Viking I	HRO60	10, 15, 20, 40, 75
S.N.J.	K2CSG	41,553	Viking VFO-Viking II	HQ140X	15, 20, 40, 75
W.N.Y.	W2ICE	54,400	810s p.a.	HQ120X	2, 20, 40, 75
W. Penna.	W3VKD	89,352	KW1; 32V2	75A3, 75A4	10, 15, 20, 40, 75
Illinois	W9TJP	55,428	Viking II-810s	Homebuilt	10, 15, 40
Indiana	W9HYM/9	46,532	Ranger	75A1	10, 15, 40, 75
Wisconsin	W0MMM	62,209	Viking VFO-Viking II	SX71	15, 20, 40, 75
No. Dakota	W0NPR	91,494	Viking VFO-Viking II	S76	10, 15, 20, 40, 75
So. Dakota	W0PRZ	94,924	32V1	75A2	10, 15, 20, 40, 75
Minnesota	W0TJH	30,690	Viking II	NC88, Q Multiplier	10, 15, 20, 40, 75
Arkansas	W5ZCC	24,012	813s p.a.	75A2	10, 40, 75
Louisiana	W5KC	65,340	32V3	HRO7	10, 15, 20, 40, 75
Mississippi	W5LPG	99,645	Ranger-813	HQ140X	10, 15, 20, 40, 75
Tennessee	W4ODR	77,418	DX100	SX100	10, 15, 20, 40, 75
Kentucky	W4KZF	20,280	Ranger	BC342N	20, 40, 75
Michigan	W8DUS	89,280	KW1	75A4	15, 20, 40, 75
Ohio	W8AJW	114,822	32V1	HQ120X	10, 11, 15, 20, 40, 75
E.N.Y.	K2PIC	30,915	Ranger, Communicator	75A1, Communicator	2, 10, 15, 40, 75
N.Y.C.-L.I.	K2AAA	184,398	Eldico FT30, SSB100	Eldico MT2, 75A3, 75A4	2, 10, 15, 20, 40, 75
N.N.J.	W2VCZ	12,300	Viking VFO-Viking I	HRO50T1	15, 40, 75
Iowa	W0AXE	13,500	Ranger	NC173, VHF152A, R9er	10, 15, 20, 40, 75
Kansas	W0LXA	65,423	5100	SX28	15, 20, 40
Missouri	W0BCF	59,040	810s p.a.	SP400X	15, 20, 40, 75
Nebraska	W0VKI	58,194	Ranger	HRO60	20, 40
Connecticut	W1YUW	87,255	Viking I	75A2	10, 15, 20, 40, 75
Maine	W1GKJ	52,731	Viking VFO-Viking II	HRO60	10, 15, 20, 40, 75
E. Mass.	W1JEL	64,470	Ranger; 829B p.a.	NC300	10, 15, 20, 40, 75
W. Mass.	W1NGE	7265	Sig. Shifter-814	SX25	40, 75
N.H.	W1FZ	77,622	Viking I	75A2	10, 15, 20, 40, 75
R.I.	W1TRX	52,338	Globe King	HQ140X, DB23	10, 15, 20, 40, 75, 160
Vermont	W1SEO	30,336	5100	75A2	10, 15, 20, 40, 75
Idaho	W7VNO	23,427	Globe Scout	RME69	10, 15, 20, 40, 75
Montana	W7NPV	43,005	32V1	SX28	10, 15, 20, 10, 75
Oregon	W7OVA	57,855	Viking I	75A1	15, 20, 75
Washington	W7ESK	103,836	32V3	75A1	10, 15, 20, 40, 75
Santa Clara V.	K6CLV	17,292	DX100	SX28	10, 15, 20, 40, 75
East Bay	W6BXE	41,138	4-250As p.a.; 813s p.a.	SX28, 75A2	15, 20, 40, 75
San Francisco	W6CBE	67,184	5763-2E26-4-125As	HRO60	10, 15, 20, 40, 75
Sacramento V.	W6QEU	87,401	Ranger-304TLs	SX71	10, 15, 20, 40, 75, 160
San Joaquin V.	W6TZN	43,280	Viking I	SX71	10, 15, 20, 40, 75
No. Carolina	K6MUG/4	31,806	Viking II	S76	10, 15, 20, 40, 75
So. Carolina	W4BAN	60,180	Viking II	S40B	10, 15, 40, 75
Virginia	W4CBQ	54,860	837-1625-1625-4-400A	SP400X	15, 20, 40, 75
W. Virginia	W8WHR	32,704	Ranger-RK36s	Super Pro	10, 15, 20, 40, 75
Colorado	W0MPH	79,380	5100	NC183D	10, 15, 20, 40, 75
Utah	W7QWH	15,045	30K1	75A3	15, 20, 40, 75
Wyoming	W7UZR	93,660	Viking II	SX88	10, 15, 20, 40, 75
Alabama	W4GUV	54,441	Ranger	NC98	10, 15, 20, 40, 75
E. Florida	W4PJU	58,149	32V1	75A3	10, 20, 75
W. Florida	W4KWM	10,906	4-400As p.a.	NC200	20
Georgia	W4FGH	55,476	250THs p.a.	SX28, HQ129X	40
Los Angeles	W6NJU	107,246	6146 p.a.	75A2	2, 10, 15, 20, 40, 75
Arizona	W7ZZA	62,928	6AG7-6AG7-1614-812As	HRO60	10, 15, 20, 40, 75
San Diego	W6IQD	39,744	BC810E	75A3	10, 20, 40, 75
Santa Barbara	W6ERB	12,144	Viking II	75A4	15, 20, 40, 75
No. Texas	W5COF	31,929	Viking II	HRO50T	10, 15, 20, 40, 75
Oklahoma	W51WL	45,423	5763-5763-5763-2E26-813	SX28A	15, 20, 40, 75
So. Texas	W5HQR	60,786	Viking II	HRO50T1	10, 15, 20, 40, 75
New Mexico	W5MYI	31,500	6AG7-6AG7-6N7-6N7-829B	SX28	10, 20, 40
Maritime	V06AM	2541	Viking I	HQ129X	15, 20
Quebec	VE2JR	33,260	Viking II	SX71	10, 15, 20, 40, 75
Ontario	VE3AML	6534	Viking II	AR88D	10, 20, 75
Manitoba	VE4EF	9950	805s p.a.	British Commander	20, 75
Sask.	VE5VZ	14,307	TR1TV	HQ129X, DB23	15, 20, 40, 75
Alberta	VE6MJ	5360	6L6-807s-812As	HQ129X, DB20	15, 20, 75
Yukon	VE8NT	4293	Viking I	S40B	15, 20, 75

105,000 point separation made the difference. FRC boys really banded together to show serious intent by boosting their club aggregate score over 500 thousand points since the last SS. But, over 50 clubs failed to make club-box listing due to an insufficient number of entries.

## Sidelights

Five who came close but couldn't quite pin that 73rd include W7ZZA W8DUS W9s BCF MPH PRZ. . . Snag-

ging Arizona honors once again while sporting a new call, ex-VE1LL (now W7ZZA) more than doubled his '54 QSO total with 443 contacts in 72 sections. . . In the 6th SS, two decades past, the highest phone scorer (VE3ER) talked to 67 ops in 23 sections. In striking contrast is the record-breaking 184,398 points neatly summed up by the Hudson Division champ K2AAA. This *fait accompli* resulted from 848 conversations with all sections. . . All Mississippi entrants topped the 50,000 mark. . . Technician W1ULU exploited 6-meter territory and came up with 42 contacts in 5 sections. Nice going! . . . VE8NT provided 53 happy hams with a Yukon multiplier. . . A Novice c.w. winner last year, K6EVR of the Pacifico Radio Club returned this year



Representative of equipment used by a phone section leader, W9OMM's Viking II and SX-71 aided in his computation of 62,209 points out Wisconsin way. Dell keeps things perking between Novembers by working for YL award-endorsements.

on phone to demonstrate ability galore in a 96,822-point tally. . . . W4FGH QSOd 414 the hard way, all on 7.2 Mc! . . . VE4EF's 50th and last new section resulted from a QSO with VE4XP. . . . The 68 section winners represent a total of 20,359 QSOs. . . . W6QEU's 1950 QSO record of 854 contacts holds firm. . . . Heard by many were W8DOG and K2ELK. . . . K2AAA's r.f. was radiated by a long wire on 40 and 75, rotaries on 10, 15 and 20 and a ground plane on 2. . . . On the other hand, some of the robust radiators at W3VKD included an H-array on 40, a 6-element beam for 20, 3 elements on 10 and 15 and two half-waves on 75. . . . Illinois and Ohio phone fanciers accounted for 19% of all A-3 logs. . . . Section winners for four consecutive years are W2ICE W6CBE W7NPV and W8AJW. Special plaudits to W2ICE; Kelley has been the recipient of a W. N. Y. award for five consecutive years. . . . Honest man K6JKQ only claimed B power while running 101 watts. . . . Though 10th down in the club box, the York Radio Club of Illinois shows a blistering 111,798 points as the average entrants score. . . . 75 clubs had the required 3-or-more members submit logs in competition, representing a total of 651 logs. Certificate awards to go to 94 club contestants. . . . According to *Raytheon News*, members of the El-Ray Club plan to give the top three clubs a real run for the gavel in future SS events. . . . The 73rd section worked by W5LPG was Utah; By W3VKD, Maritime; by K2AAA, Canal Zone. . . . W7PEG worked 101 on 15. . . . KN2ODE and WN1FMW made 144-Mc. come through. . . . An average of the section leader's scores figures out to be 51,892

points; 304 QSOs in 60 sections in 29 hours, using low power. . . . Breathing hot and heavy on PVRC and FRC, the OVARA lads topped the two-million mark, thanks to 41 clannish contestants. . . . XYL W1TRE watched OM W1JEL operate and take his turn at winning the E. Mass. award. . . . Among the 32 operators at Penn. State (W3YA), was YL W3USR.

### Contest Quotes

"My oh my, didn't even work my own section Kentucky." — W4KZF. . . . "All SS widows deserve awards." — W8AJW. . . . "Short skip on 20 the second weekend meant the east coast could only copy very strong west coast signals through the W9 W0 and W5 QRM. Needless to say it was rough particularly since I flew to Los Angeles on the 13th and didn't get back to Seattle till just before the contest on the 19th. It all goes to prove you have to be a little crazy to enjoy contests." — W7ESK. . . . "I recruited Walt, W3WPY, to operate my rig in contests because at my age I can't bear up under the strain of long hours. W3LMM will handle the rig in c.w. contests. I'm housekeeper." — W3VKD. . . . "Where were the VE's?" — W9OMM. . . . "My son, K4DIX, and I worked in shifts. It was nerve wracking hearing him snag Utah and Idaho. On the other hand he drooled when I worked Maine and Vermont." — K4AWQ. . . . "It's good to hear the regulars such as W2ICE, K2AAA, W3VKD and W6CBE in there running up their usual good scores." — W0BWJ. . . . "This was my 3rd SS and I enjoy it more each year. Conditions were perfect the first weekend." — W0NPR. . . . "You'll note that I didn't come near my all-time high score of 1950. My explanation of this is poor band conditions during the 2nd weekend and the fact that I couldn't operate on 1.8 or 4 Mc. during the time the TV transmitter was in operation. I moved my gear to the TV transmitter building of KBET and 1.8 or 4 Mc. energy would work into the video circuits. Here's a case of a ham station interfering with a TV broadcast station!" — W6QEU. . . . "Missed W2s HJR SKE W3JNN W4HQN and W6AM, but more enjoyable than last year." — Walt, W3WPY (opr. of W3VKD). . . . "Wish my score had been better but lost time during the 1st weekend with rig failure. I was sure lucky to get all 73." — W5LPG. . . . "This is the first contest I've entered in 13 years as an ARRL member and I sure enjoyed it!" — W2UMS. . . . "Finished my WAS by working Vermont and Utah." — W5ZAK. . . . "Where were VE7 VE8 and KL7?" — W1YWU. . . . "Final results sure prove the superiority of SSB for an SS. In fact, I'll even predict that next year, when the SSB population will be 3 or 4 times larger, the phone scores will rival the c.w. scores." — K2AAA. . . . "This was my first contest and a lot of fun." — W7UZR (Note: 449 QSOs in 70 sections is a mighty fine first try for high-school senior W7UZR!). . . . "Wait till next year." — K2GIC.

High scores aren't exclusive with the older ham. As witness, observe the superlative performance of the lads shown below. On the left is North Dakota's 16-year old W0NPR. Jon's modest station, 20-meter beam plus 120' doublet brought him 91,494 points. On the right, meet high-school senior W7UZR who clobbered 'em out Wyoming way. Jim averaged 13 QSOs an hour during a 33-hour operating period. A point total upwards of 90,000 makes W7UZR's first contest endeavor something to be proud of, regardless of age.



That "next year" referred to by K2GIC is and has been here for some time. In fact, November is just a stone's throw away from Field Day. What with 10 and 15 meters showing their stuff and even 6 promising points, it looks to be a record-shattering all-section affair. Polish up the push-to-talk, sharpen up that selectivity; club prexies start your pep talks and reserve those 2 weekends preceding Turkey Day 'cause we'll be listening for you in the 23rd SS!

## PHONE SCORES

### Twenty-Second Sweepstakes Contest

Scores are grouped by Divisions and Sections. . . . The operator of the station first-listed in each Section is award winner for that Section unless otherwise indicated. . . . Likewise the "power factor" used in computing points in each score is indicated by the letter A or B. . . . A indicates power up to and including 100 watts (multiplier of

1.5, phone), B over 100 watts (multiplier of 1). . . . The total operating time to the nearest hour, when given for each station, is the last figure following the score. . . . Example of listings: W3DHHM. . . . 71,208-344-69-A-32, or, final score 71,208, number of stations 344, number of sections 69, power factor of 1.5, total operating time 32 hours. . . . Multioperator stations, with calls of participants in parentheses, are grouped in order of score following single-operator station listings in each section tabulation.

## ATLANTIC DIVISION

Md.-Del.-D. C.

### Eastern Pennsylvania

K3WBJ <sup>1</sup>	68,352-357-64-A-35
W3YRK	62,210-311-67-A-38
W3AYS	49,896-264-63-A-26
W3YYD	42,818-260-55-A-40
W3VAM	40,698-243-57-A-29
W3UKO	40,260-222-61-A-29
W3YVU	7650-86-30-A-9
W3PKC	3348-54-31-B-14
W3YGN	1908-53-18-B-8
W3RRT	336-16-7-A-4
W3MSK	153-9-6-A-1
W3WON	27-3-3-A-1
W3DRD	3-1-1-A-1
W3OXY	3-1-1-A-1
W3YUO (W3YUO, WN3s CPN DGV)	13,158-154-43-B-26

## CLUB SCORES

Club	Score	Entries	C.W. Winner	Phone Winner
Potomac Valley Radio Club	3,178,487	40	W4KFC	W4CBQ
Frankford Radio Club	3,073,240	45	W2DGM	W3DHHM
Ohio Valley Amateur Radio Assn.	2,196,228	41	W8PBU	W8PLQ
El-Ray Amateur Radio Club (Mass.)	935,679	26	W1YMA/1	W1JNX
Chicago Suburban Radio Assn.	769,470	19	W3WVU	W9FTU
Milwaukee Radio Amateurs' Club	533,761	14	W9UDK	W9HCX
Nassau Radio Club (N. Y.)	523,713	11	W2TUK	K2AAA
Order of Bolled Owls (N. Y.)	491,019	6	W2PRN	
Garden State Amateur Radio Assn. (N. J.)	469,146	11	W2CQB	
York Radio Club (Ill.)	447,163	4	W9YFV	
Buckeye Short Wave Radio Assn. (Ohio)	429,92	10	W8OYI	W8BHE
South Jersey Radio Assn.	407,310	15	K2HZR	W2BLV
Minneapolis Radio Club	404,180	7	W0TKX	
Westpark Radiops (Ohio)	400,694	31	W8FDC	W8AJW
Cleveland Brasspounders Assn.	363,023	5	W8VTF	
Hamfsters Radio Club (Ill.)	360,053	14	W9LNQ	W9TJP
Tri-County Radio Assn. (N. J.)	351,651	11	K2BNC	K2CSC
Tri-State Amateur Radio Society (Ind.)	346,036	9	W9PNE	W9MCM
Pacific Radio Club (Calif.)	345,701	4		
Detroit Amateur Radio Assn.	291,767	12	W8IXJ	
Baltimore Amateur Radio Club	291,582	5	W3HEC	
Niagara Radio Club (N. Y.)	289,107	10	W2VJO	
Long Beach Wireless Operators (Calif.)	276,444	7	W6BJU <sup>1</sup>	
Richmond Amateur Radio Club (Va.)	274,876	7	W4BZE	
Connecticut Wireless Assn.	266,565	6	W1BIH	
Sioux City Amateur Radio Club (Iowa)	253,135	5	W0CXN	
Central High Radio Club (Iowa)	221,866	9	W0KYI	
Mid-Island Radio Club (N. Y.)	219,075	9	W2KTF	
Rochester Amateur Radio Assn.	217,967	14	W2JMJ	W2ICE
Dayton Amateur Radio Assn.	215,504	5	W8ZJM	
Philadelphia Wireless Assn.	213,368	5	W3HHK	
Northern California DX Club	207,534	3	W6TT	
Clarksville Amateur Radio Club (Tenn.)	202,526	3	W4WQT	
Canton Amateur Radio Club (Ohio)	194,810	14	K8NRG <sup>2</sup>	W8IKM
Amateur Transmitters Assn. of W. Penna.	194,095	4	W3GJV	
Coronado Radio Club (Calif.)	191,697	9	W6JVA	K6EDA
Columbus Amateur Radio Assn.	188,268	7	W8QDH	W8OMY
Tri-State Radio Club of So. Sloux City, Nebr.	180,726	8	W0CIO	
Turkey River Amateur Radio Club (N. H.)	175,375	6	W1BFT	W1RVQ
Somerset Hills Radio Club (N. J.)	172,807	5	W2CND	
Lake Success Radio Club (N. Y.)	158,247	8	W2CWD	
Johnson County Radio Amateur Club (Kans.)	153,282	6	W0BCI	W0MEF
Morristown High School Radio Club (N. J.)	152,720	5	K2CBB	
Springfield Amateur Radio Club (Ohio)	150,260	5	W8SWZ	
South Lyme Beer, Chowder & Propagation Soc. (Conn.)	145,778	3	W1IKE	
Radio Amateurs of Greater Syracuse	137,343	8	W2EMW	
Northern Amateur Radio Club (Ont.)	128,994	6	VE3DRD	VE3HE
Northwest Amateur Radio Club (Ill.)	125,670	3	W9GVZ	
Beachwood Amateur Radio Club (Calif.)	125,591	6	K6ELX	
Middlesex Amateur Radio Club (Mass.)	116,662	15	W1SAD	W1FGQ
Kankakee Amateur Radio Society (Ill.)	114,155	4	W3VDV	W9VQC
York Amateur Radio Club (Penn.)	111,515	4		
Lake County Amateur Radio Club (Ill.)	111,277	4		
Antietam Radio Assn. (Md.)	106,796	4		W3YRK
Denver Radio Club	102,698	7		W0MPH
Queens Radio Amateurs (N. Y.)	101,755	4	W2GXC	
Bethesda-Chevy Chase High School Electronics Club	95,258	3	W3UZZ	
Pottstown Amateur Radio Assn. (Penna.)	94,815	3	W8ARK	
Rio Hondo Radio Club (Calif.)	93,297	3	K6GUZ	
Anne Arundel Radio Club (Md.)	90,728	3		W3YYD
Hartford County Amateur Radio Assn.	87,917	5	W1UFW	
Joliet Amateur Radio Society (Ill.)	85,616	7	W9YYG	
Lawrence Amateur Radio Club (Kans.)	73,164	3	W8UNT <sup>3</sup>	
Stoughton Amateur Radio Club (Calif.)	65,98	4	W6KIG	W6GQZ
Schenectady Amateur Radio Club	58,424	4		
Point Radio Amateurs (Wis.)	50,857	7	W9RCC	
Harmonic Hill Radio League (N. Y.)	50,365	3	K2DRN	
Northeast Radio Club (Penna.)	49,827	3	W3HTR	
Levittown Amateur Radio Club (N. Y.)	38,092	8	W2RZH	
Aero Amateur Radio Club (Md.)	33,938	3	W3VCD	
Goose Bay Amateur Radio Club (Labrador)	31,830	6	W2BRA/VO6	VO6AM
Radio Electronics Club of Central H. S. (Pa.)	15,885	3	W3WHJ	
Cascade Radio Club (Wash.)	14,148	3	W7QLH	
St. Louis University Amateur Radio Club	12,146	5	W0WRB	
Fall River Amateur Radio Club (Mass.)	8,882	3		

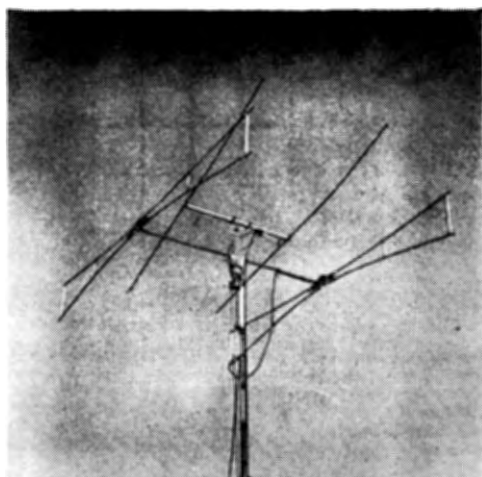
<sup>1</sup> W6CUF, opr.

<sup>2</sup> W8JIA, opr.

<sup>3</sup> W0FCL, opr.



W3WPY stayed awake at the W3VKD helm to net 612 QSOs in all the 73. Voice operation par excellence, 5-band versatility, and a husky KW-1 added up to acquisition of the W. Penna. award and top W3 score.



Stacked 2-element beams for 15 and 20 were 70 feet high over Los Angeles as W6NJU vocalized for his section's sheepskin. A 40-meter vertical and 144-Mc. ground plane 60' above ground are further embellishments on Gary's "vertical antenna acreage."

**Southern New Jersey**  
K2CSC. 41,553-243-57-A-33  
K2BWR. 22,632-246-46-B-33  
W2BLV. 16,200-100-54-A-17  
K2EYZ. 13,392-124-54-B-19  
K2GCD. 7347-80-31-A-14  
K2AQL. 7079-72-33-A-19  
K2AIM. 3218-51-21-A-12  
K2JKA. 2718-76-12-A-9  
W2VUM. 2838-43-22-A-9

**Western New York**  
W2ICE. 54,400-400-68-B-33  
K2BHP. 47,192-355-68-B-36  
W2CZT. 40,200-300-67-B-38  
W2PUN. 33,600-175-64-A-23  
W2PDB. 32,405-190-57-A-34  
W2UMS. 19,944-139-48-A-32  
K2DGM. 11,100-102-37-A-21  
K2EEC. 10,692-81-44-A-9  
W2SNI. 8920-114-40-B-12  
K2ELK. 7134-82-29-A-6  
W2SYT. 6732-68-34-A-12  
W2RLN. 5520-70-40-B-12  
K2LJT. 2712-90-24-B-16  
K2KNW. 1500-25-20-A-6  
W2BYJ. 1482-26-19-A-9  
W2YRH. 1045-28-19-B-7  
W4ZYV/2. 924-28-11-A-7

**Western Pennsylvania**  
W3VKD<sup>2</sup>. 89,352-612-73-B-40  
W3VWJ. 9320-118-40-P-10  
W3VEJ. 9030-86-35-A-8  
W3YA (32 ops). 11,466-138-28-A-8

#### CENTRAL DIVISION

**Illinois**  
W9TJP. 55,428-461-62-B-38  
W9FVU. 41,760-233-60-A-9  
W9HKE. 40,824-324-63-B-37  
W9VOB. 37,047-235-53-B-32  
W9AJP. 28,980-244-60-B-15  
W9NDN. 25,679-164-53-A-21  
W9MHC. 25,410-164-55-A-29  
W9NLF. 22,680-158-48-A-37  
W9LQF. 21,000-176-40-A-35  
W9PFM. 20,874-142-49-A-8  
W9ITM. 17,901-155-39-A-26  
W9TMC. 15,420-130-40-A-26  
W9JRF. 8514-129-33-B-7  
W9WFS. 8004-93-29-A-6  
W9PBJ. 5850-75-26-A-13  
K9AHO. 4554-68-23-A-15  
W9DBU. 3741-67-29-B-10  
W9UZY. 3132-36-29-A-10  
W9VQC. 2187-41-18-A-7  
W9HKA. 1968-41-24-B-4  
W9GPV. 1827-29-21-A-6  
W9ZFM. 1554-37-14-A-5  
W9TRI. 1404-29-18-A-10  
W9YAC. 1080-24-15-A-8  
W9ACI. 692-21-11-A-2  
K9ARN. 473-18-9-A-2  
W9GBC. 450-15-10-A-2  
W9OUH. 396-18-11-B-6  
W9UMF. 297-11-9-A-3  
W9PNY. 287-22-7-B-10

#### DAKOTA DIVISION

**North Dakota**  
W9NPR. 91,494-449-68-A-38  
W9CKZ. 28,215-165-57-A-23  
W9WFO. 25,290-143-60-A-11  
W9NGO. 18,944-151-64-P-12  
W9WRK. 162-15-4-A-4

**South Dakota**  
W9PQC. 94,924-445-72-A-30  
W9VRZ. 40,890-235-58-A-24  
W9GDE. 33,792-257-66-B-16

**Minnesota**  
W9TJH. 30,690-186-55-A-29  
W9WVO. 18,744-142-44-A-17  
W9TPO. 16,119-101-54-A-19  
W9TCF/ø. 8940-76-40-A-26  
W9AJS. 5208-62-28-A-18  
W9QZR. 4134-54-26-A-17

#### DELTA DIVISION

**Arkansas**  
W5ZCC. 24,012-209-58-B-18  
W5DYL. 5822-71-41-B-12

**Louisiana**  
W5KC. 65,340-330-66-A-27  
W5SQL. 33,600-201-56-A-20  
W5ZAK. 8892-80-38-A-11

#### Mississippi

W5LPG. 99,645-460-73-A-33  
W5DQK. 69,300-355-66-A-27  
W5KNA/5. 58,806-302-66-A-32

#### Tennessee

W4ODR<sup>4</sup>. 77,418-397-66-A-39  
W4TDL. 11,319-119-49-B-10  
W4YGL. 3480-40-29-A-5  
W4IGW. 1932-35-28-B-10  
W2MQB/4. 690-23-15-B-5

#### GREAT LAKES DIVISION

**Kentucky**  
W4KZF. 20,280-130-52-A-12  
W4CDO. 11,970-133-45-B-20

#### Michigan

W8DUS. 89,280-625-72-B-39  
W8LOX. 12,689-104-41-A-13  
W8ZCX. 8468-147-29-B-27  
W8JQR. 2200-50-22-B-9  
W8QGP. 2136-45-24-B-12  
W8TBZ. 1593-32-27-B-13  
W8TWA. 1380-23-20-A-10  
W8FGB. 3-1-1-A-1  
W8MNY (W8S MNY MNZ VFQ) 55,377-294-63-A-37

#### Ohio

W8AJW. 114,822-544-71-A-40  
W8KZH. 72,633-396-62-A-40  
W8LAX. 41,220-230-60-A-24  
W8PLQ. 39,648-236-56-A-35  
W8OMY. 29,040-177-55-A-35  
W8AGZ. 28,784-257-66-B-29  
W8HQB. 27,028-237-58-B-34  
W8QIU. 21,330-158-45-A-8  
W8GKU. 20,925-223-45-B-27  
W8BHF. 19,044-140-48-A-24  
W8SRF. 19,404-154-42-A-19  
W8MKD. 18,900-127-50-A-20  
W8QAD. 18,792-162-58-B-26  
W8FBZ. 15,120-126-40-A-20  
W8JSW. 13,800-100-46-A-18  
W8LKM. 12,426-109-38-A-18  
W8OAC. 9512-164-29-P-17  
W8QCO. 7923-77-35-A-10  
W8IRB. 7560-72-35-A-4  
W8QYT. 5508-68-27-A-13  
W8GHT. 4446-57-26-A-8  
W8QIZ. 3996-74-18-A-13  
W8HTQ. 3225-43-25-A-10  
W8AJH. 2205-49-15-A-7  
W8IMH. 1710-31-19-A-14  
W8FDN. 1598-36-15-A-8  
W8MYV. 1536-32-16-A-4  
W8JIN. 1520-38-20-B-1  
W8ENX. 1496-34-22-B-6  
W8ZQX. 1281-31-14-A-7  
W8VJX. 70-19-10-A-5  
W8UDN. 567-27-7-A-6  
W8WIB. 540-20-9-A-4  
W8AEU. 480-20-8-A-6  
W8SJU. 459-17-9-A-7  
W8SLS. 345-14-4-A-3  
W8INO. 156-13-4-A-4

W8YHU. 112-8-7-B-1  
W8ZEU. 66-11-2-A-2  
W8FND. 64-8-4-B-1  
W8NZC. 45-15-1-A-3  
W8ET. 24-8-1-A-1  
W8HFE. 21-7-1-A-1  
W8RNL. 18-6-1-A-5  
W8USU. 6-2-1-A-1

#### HUDSON DIVISION

##### Eastern New York

K2PIC. 30,915-231-45-A-31  
K2JMY. 18,585-177-35-A-29  
K2PPB. 13,965-123-38-A-20  
W8AVT/2. 648-18-12-A-2  
K2BDJ. 126-7-6-A-4  
W2SZ (W2MFN, K2BWB, W9NFR) 10,788-176-31-B-23

##### N. Y. C.-L. I.

K2AAA. 184,398-848-73-A-40  
W2OXG. 21,291-151-47-A-23  
W2EEN. 17,280-120-48-A-13  
W2MCO. 12,240-102-40-A-21  
K2KXZ. 11,628-114-34-A-23  
K2KXZ. 11,286-115-33-A-20  
K2KMA. 10,716-141-33-B-9  
W2MUL. 9486-93-34-A-23  
K2DEM. 8652-103-28-A-4  
K2GZN. 7280-110-23-A-24  
K2HEA. 4536-57-27-A-19  
K2GIC. 3300-50-22-A-5  
K2HTO. 1392-29-16-A-6  
W2KZE. 966-23-14-A-11  
W2NNB. 528-16-11-A-5  
W2DLO. 186-16-6-B-1  
K2GKU. 133-10-7-B-2  
K2MDB. 108-6-6-A-7  
KN2ODE. 27-9-1-A-1  
K2KTT. 11-6-1-A-2  
K2IEG (W2EJZ, K2IEG) 8610-104-28-A-8

##### Northern New Jersey

W2VCZ. 12,300-100-41-A-7  
K2MMF. 8694-97-46-B-19  
W2GNW. 8632-48-28-B-5  
K2EZR. 2244-66-17-B-2  
K2BZT. 1575-25-21-A-2  
W2SJU. 1512-56-14-B-7

#### MIDWEST DIVISION

##### Iowa

W0AXE. 13,500-103-45-A-19  
W0SVS. 9912-120-42-B-10  
W0TWD/ø. 285-10-10-A-4

##### Kansas

W0LXA. 65,423-337-65-A-35  
W0EIB. 55,120-425-65-B-28  
W0ZSZ. 45,012-365-62-E-40  
W0MEF. 36,839-210-59-A-24  
W0IFR. 1980-30-22-A-3  
W0QMS. 1892-49-13-A-7  
W0GUP. 390-13-10-A-3

##### Missouri

W0BCF. 59,040-419-72-P-30  
W0JAH. 34,029-200-57-A-27

WØEPI.....9870-107-47-B-27  
WØRVF.....4978- 66-38-B-11  
WØUVD.....112- 8- 7-B- 5  
WØQON (W9EY, WØMUM) 38,480-308-65-B-37  
WØFLN (W9SBW, WØs TGI WRB) 8400- 88-32-A-23

*Nebraska*  
WØVKI.....58,194-321-61-A-26  
WØBTQ.....213-128-45-B-19  
WØGYM.....16,642-157-53-B-19  
WØWSN.....16,298-134-41-A-23

## NEW ENGLAND DIVISION

*Connecticut*  
W1YWU.....87,255-416-70-A-37  
W1YBH.....28,512-176-54-A-24  
W1MRP.....21,024-219-49-B-28  
W1YOF.....9266-113-41-B-12  
W1ZNK.....6975- 75-31-A- 5  
W1AWY.....4830-69-35-B- 5  
W1WHL.....2574- 39-22-A- 4  
W1UFV.....2002- 46-22-B-10  
W1RWS.....975- 25-13- 3  
W1WNU.....192- 8- 8-A- 1  
W1ZMB.....2- 1- 1-B- 1  
W1ZKE (W1s HGE ZKE) 51,972-285-61-A-39

*Maine*  
W1GKI.....52,731-285-62-A-40  
W1WTG.....20,887-187-47-A-20  
W1BBB.....2574- 39-22-A- 5



W7RVM.....32,319-173-63-A-25  
W7TMM.....31,262-271-58-B-25  
W7VYG.....1710- 38-15-A- 2  
W7YOZ.....905- 34- 9-A-13

*Washington*  
W7ESK.....103,836-512-68-A-38  
W7BLX.....9986-121-42-B-21  
W5GRV/7.....4238- 59-25-A-17

## PACIFIC DIVISION

*Santa Clara Valley*  
K6CLV.....17,292-131-44-A-25  
K6BAM.....11,970- 95-42-A-15  
W6JVF.....9975- 95-35-A-13  
K6BTX.....2415- 59-14-A-13

*East Bay*  
W6BXE.....41,138-311-67-B-27  
W6BSY.....27,710-190-49-A-21  
W6VVZ (W6s CNC JLQ NGE QEF VVZ YGG) 67,827-504-69-B-40

*San Francisco*  
W6CBE.....67,184-494-68-B-40  
W6SJJ.....20,550-138-50-A-22  
K6JKQ.....6314- 79-41-B-13  
W6ATO.....4212- 54-39-B- 8

*Sacramento Valley*  
W6QEU.....87,401-616-71-B-35  
W6VBI.....28,148-228-62-B-26

## SOUTHEASTERN DIVISION

*Alabama*  
W4GUV.....54,441-273-69-A-35  
K4BDJ.....6324- 94-34-B-27  
K4APF.....972- 28-18-B- 3

*Eastern Florida*  
W4PJU.....58,149-273-71-A-22  
W4GFQ.....31,037-183-57-A-21  
W4HKJ.....7783- 91-43-B-16  
W4HBM.....270- 10- 9-A-10  
K4BCN.....147- 7- 7-A- 1

*Western Florida*  
W4KWM.....10,906-133-41-B-11

*Georgia*  
W4FGH.....55,476-414-67-B-39  
W4YTO.....51,870-272-65-A-31  
W1ZVG/4.....24,975-174-50-A-14  
K4BAI.....10,878-130-42-B-14  
K4DMY.....6231- 67-31-A-18

## SOUTHWESTERN DIVISION

*Los Angeles*  
W6NJU.....107,246-504-71-A-38  
K6EVR.....96,822-491-66-A-40  
K6DAC.....74,003-382-65-A-40  
K6BWD.....65,130-335-65-A-31  
K6DAS.....20,357-167-41-A-21  
K6DDO.....13,284-125-36-A-16  
K6IGZ.....6300- 75-42-B-13  
K6HDO.....5760- 64-30-A- 8  
K6LUL.....1152- 24-10-A- 3  
K6DNH.....3- 1- 1-A- 1  
K6IDA.....3- 1- 1-A- 1

*Arizona*  
W7ZZA.....62,928-443-72-B-36  
W7ENA.....36,808-234-53-A-24  
W7UUC.....34,542-202-57-A-33  
W7PEG.....4484-102-42-B- 9  
W7UKS.....3564- 54-22-A-29

*San Diego*  
W6IQD.....39,744-311-64-B-30  
K6AKS.....22,658-143-53-A-26  
K6EDA.....14,544-101-48-A-19  
K6AZW.....8424- 80-36-A-21  
W6JVA.....180- 10- 6-A- 2  
K6IHF (K6s DWH IHF) 14,504-151-33-A-19

## Santa Barbara

W6ERB.....12,144- 92-44-A-12  
K6ELR.....8910- 91-33-A-21  
W6BHZ (13 oprs.) 12,710-155-41-B-24

## WEST GULF DIVISION

*Northern Texas*  
W5COF.....31,929-188-58-A-29  
W5FIT.....21,221-167-42-A-13  
K5BWK.....15,929-133-41-A-17  
W5ZOY.....6528- 68-32-A-11  
W8GZF/5.....324- 12- 9-A- 3  
W5FIP.....48- 4- 4-A- 1

*Oklahoma*  
W5IWL.....45,423-364-63-B-38

*Southern Texas*  
W5HQR.....60,786-308-66-A-32  
W5ZED (W5s KLW ZED) 96,579-911-63-A-38

*New Mexico*  
W5MYI.....31,500-212-50-A-20  
W5FHL.....8775- 75-39-A-31

## CANADIAN DIVISION

*Maritime*  
VO6AM.....2541- 39-22-A-13  
VO6U.....663- 17-13-A- 4  
VO6N.....2- 1- 1-B- -

*Quebec*  
VE2JR.....33,260-198-57-A-34

*Ontario*  
VE3AML.....6534- 66-33-A-17  
VE3HE.....1404- 36-18-A- 9  
VE3NC.....378- 21- 6-A- 6  
VE3WA.....12- 4- 1-A- 1

*Manitoba*  
VE4EF.....9950-100-50-B-14

*Saskatchewan*  
VE5VZ.....14,307-127-57-B-22

*Alberta*  
VE6MJ.....5360- 67-40-B-12

*Yukon*  
VE8NT.....4293- 53-27-A-27

*Eastern Massachusetts*  
W1JEL.....64,470-310-70-A-38  
W1JNX.....12,390-121-35-A-14  
W1WMZ.....12,390-121-35-A-14  
W1WFR.....4716- 67-36-B- 8  
W1WIR.....1680- 40-21-B-16  
W1UKO.....903- 22-14-A- 3  
W1YNI.....243- 9- 9-A- 1  
W1AQE.....189- 9- 7-A- 1  
W1FQG.....105- 7- 5-A- 1  
W1ZHA.....21- 7- 1-A- 1  
W1NFMW.....12- 4- 1-A- 1  
W1ZFS.....2- 1- 1-B- 1  
W1MX (W1s EDQ UJX YFM YSW, W6WZ) 43,097-239-61-A-31

*Western Massachusetts*  
W1NGE.....7265- 85-29-A-15  
W1BKG.....6396- 82-39-B- 6  
W1YK.....340- 17-10-B- 2  
W1TTL.....83- 6- 5-A- 4

*New Hampshire*  
W1FZ.....77,622-384-68-A-33  
W1RVQ.....29,232-168-58-A-24  
W1CVK.....3276- 52-21-A- 5  
W1JNC.....2304- 64-18-B- 7  
W1JUR.....630- 42- 5-A-24  
W1AH.....120- 12- 5-B- 1  
W1ELW (W1ELW, W1NHCC) 13,020-112-40-A-23

*Rhode Island*  
W1TRX.....52,338-399-66-B-38  
W1CVF.....16,560-129-46-A-28  
W1AQ.....1170- 30-13-A- -

*Vermont*  
W1SEO.....30,336-240-64-B-36

## NORTHWESTERN DIVISION

*Idaho*  
W7VNO.....23,427-142-57-A-25  
W7BMS.....13,865-149- 7-B-28  
W7VHD.....8547- 78-37-A-11

*Montana*  
W7NPV.....43,005-235-61-A-38  
W7EWR.....1950- 33-20-A- 4

*Oregon*  
W7OVA.....57,855-276-70-A-35

*San Joaquin Valley*  
W6TZN.....43,280-239-61-A-38  
W6GOZ.....5612-122-23-B-16  
W6MYP.....2496- 48-26-B- 6  
K6GTT.....150- 10- 5-A-11  
W6KIG.....8- 2- 2-B- 1

## ROANOKE DIVISION

*North Carolina*  
K6MUG/4.....31,806-187-57-A-20  
W4HUW.....29,315-226-65-E- -

*South Carolina*  
W4BAN.....60,180-295-68-A-31  
K4AWG.....11,280- 94-40-A-10

*Virginia*  
W4CBQ.....54,860-427-65-B-32  
W4KMS.....18,720-130-48-A-23  
K4AWQ.....14,400-100-48-A-23  
K4DIX.....8918- 74-41-A-17  
W4ABF.....4375- 64-35-B- 9  
W4WSF.....576- 16-12-A- 2  
W4KUJ.....572- 22-13-F- 3  
W4ZV.....462- 14-11-A- 2  
W4OWV.....168- 8- 7-A- 2  
W4BXI.....18- 3- 2-P- 1  
K4CUD (K4CUD, KN4DHF) 12,600-157-42-F-31

*West Virginia*  
W8WHR.....32,704-293-56-B-26

## ROCKY MOUNTAIN DIVISION

*Colorado*  
WØMPH.....79,380-368-72-A-22  
WØSIN/Ø.....8100- 69-40-A- 0  
WØCYT.....7548- 74-34-A- 7  
WØBWJ.....4158- 50-28-A- 9  
WØECY.....2628- 37-24-A-12  
WØOMN.....396- 18-11-B- 6  
WØBFE.....378- 21- 6-A-11

*Utah*  
W7QWH.....15,045-148-51-B-12

*Wyoming*  
W7UZR.....93,660-449-70-A-33  
W7PSO.....162- 2- 2-A- 1

<sup>1</sup> W1SDO, opr. <sup>2</sup> W3WPY, opr. <sup>3</sup> W9NZM, opr. <sup>4</sup> K4ARU, opr. <sup>5</sup> W1WPR, opr. <sup>6</sup> Hq. staff, not eligible for award.  
<sup>7</sup> W1YFY, opr. <sup>8</sup> W9NMK, opr.

ARRL thanks the following amateurs for submitting their logs for checking purposes: W2s HAK JF, W3DKN, W4ZHB, W5s MCF MHT VVE, W8s HFR ZHB, VE5JK.



W1SDO manned the Walter Reed Army Medical Center station K3WBJ to a leading position over 14 other single-operator entrants from Md.-Del.-D. C. A Viking I (not shown) and HRO-60 turned the trick. Looking on is station director W3WVI.