

Results, Second ARRL RTTY Roundup

This is a FUN contest!—WA3UXZ

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The first weekend in January must have been circled in red this year for the 500-plus digital-mode operators who took part in the 1990 ARRL RTTY Roundup. Operator enthusiasm, undaunted by high winds in the Northwest, heavy snows in Canada, ice storms on the Eastern Seaboard, and flood-producing rains in the Southeast, produced record-breaking scores in all but one category.

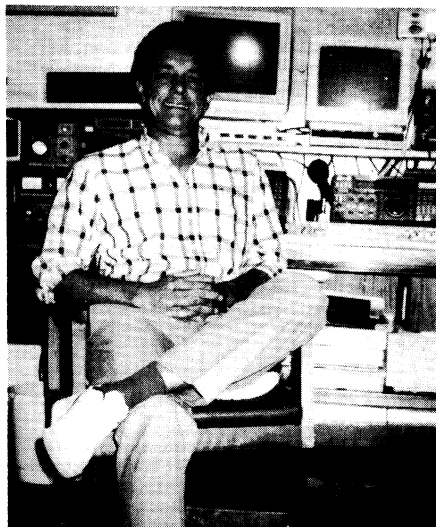
A world-winning effort by Jay, WS7I (Eastern Washington), topped a 23-hour effort by W3LPL (Ed, W3EKT at the helm) by 68 QSOs to garner first place in the single-operator, high-power class. Third-place NJØM finished eight multipliers behind W3LPL.

Although WS7I kept his never-say-die attitude right to the end, he said the results were a surprise. "Early the second day, solder melting from the tank circuit dripped into the band switch and wiped out my amp. Then the wind blew my 40-meter wire down and stripped my rotator brake so my tri-bander just free-wheeled at 30°. I figured I was out of it!"

In the low-power, W/VE group, fewer than 4000 points separated the top three finishers. "It was near non-stop action," said Tom, KEØKB, who ferreted out a few more multipliers for 48,598 points—a first-place finish and another category record breaker. Tom runs a 3-element tri-bander at 55 feet. Only eight QSOs and a single multiplier separated second place—won by KG5EG—from last year's low-power winner, AA5AU, who finished third this year.

The low-power category has become the most popular competitive class in the Roundup. There are nearly four times as many entries from barefooters as from those who run normal contest power levels (which usually means sufficient ERP to ionize a 1952 Buick). W8EJN's reaction was pretty typical. "I think I'm hooked," he said. "It was a fantastic contest and for once I didn't have to try to compete with the big guns."

The nice thing about a contest which has lots of activity is that the secret, winning



Paul, HK1LDG, operated 5K1R and finished first in the single-op, DX high-power category.

strategy can be very simple: Work everybody and then look around for somebody else (WA7EGA). The down-side of popularity occurs when several hundred crazed RTTY operators try to squeeze into three 20-kHz segments. "I enjoyed the contest," said N5OVV, "but there just wasn't enough room, especially on 15 and 20!" WA2PNI also felt the squeeze: "The turnout seemed to be larger this year, which led to very crowded band conditions. I had a great time honing my operating skills."

"It was a great contest," said AL7BK, "even better than last year! It appeared that there was a great deal more activity on all bands this year than last." KC4CSD wrote, "I was amazed at all of the activity and DX, even on 40 and 80 meters!"

Although the number of DX logs received was down a little from the previous year, scores were not! Congratulations in the low-power, DX category go to 4M5RY (YV5KAJ at the keyboard) for

Single-Operator Division Leaders

Low Power			High Power	
Division	Call	Score	Call	Score
Atlantic	KD2XN	15,696	W3LPL (W3EKT, op)	62,933
Canada	VE6ZX	36,176	—	—
Central	W9KDX	19,275	WA2USA	10,192
Dakota	KEØKB	48,598	NJØM	58,045
Delta	KG5EG	46,371	WA5VBE	2,277
Great Lakes	WW8Q	15,960	AB8K	40,320
Hudson	KC2FD	32,648	NO2T	30,770
Midwest	NØGYN	16,284	K6WZ	40,970
New England	NO1Y	32,120	KB1EM	50,313
Northwestern	WB7RBJ	31,995	WS7I	64,315
Pacific	W6/GØAZT	27,075	N6GG	40,572
Rocky Mountain	W7LHO	22,997	NQØI	12,954
Roanoke	K4JYS	23,940	WA8FLF	6,728
Southeastern	KD4W	21,284	W4HBK	46,092
Southwestern	NZ7D	20,235	AA4M/6	30,266
West Gulf	K5LTW	19,175	WF5E	56,932

Single Operator Continental Leaders

Low Power			High Power	
Continent	Call	Score	Call	Score
Africa	EA9JV	28,835	9J2AL	26,720
Asia	JA3DLE/1	9,350	—	—
Europe	GØATX	27,924	OH2LU	25,160
North America	AL7BK	16,120	KL7XD	48,598
Oceania	WØH1	5,566	KE9A/DU3	1,386
South America	4M5RY (YV5KAJ, op)	52,427	5K1R (HK1LDG, op)	52,116

Single Operator Top Ten

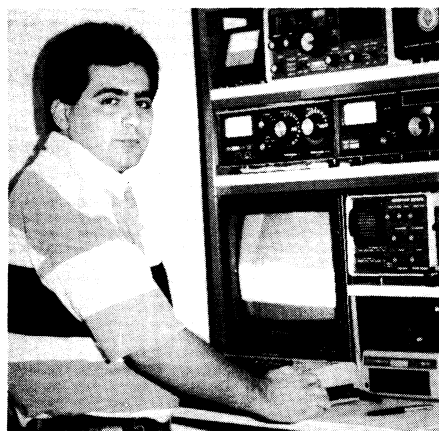
W/VE—Low Power		W/VE—High Power	
Call	Score	Call	Score
KE0KB	48,598	WS7I	64,315
KG5EG	46,371	W3LPL	
AA5AU	45,150	(W3EKT,op)	62,933
VE6ZX	36,176	NJ0M	58,045
KC2FD	32,648	WF5E	56,932
NO1Y	32,120	KB1EM	50,313
WB7RBJ	31,995	W4HBK	46,092
VY9CC		K6WZ	40,970
(VE3JPC,op)	31,902	N6GG	40,572
NU1E	27,540	AB8K	40,320
WJ7S	27,120	AA4TH	33,136

DX—Low Power		DX—High Power	
Call	Score	Call	Score
4M5RY		5K1R	
(YV5KAJ,op)	52,427	(HK1LDG,op)	52,116
EA9JV	28,835	KL7XD	48,598
G0ATX	27,924	AL7BB	29,100
EA8AKQ	18,462	9J2AL	26,720
G0ARF	17,537	OH2LU	25,160
PA3DBS	16,848	I2KYM	11,088
AL7BK	16,120	EA8RA	10,384
SP3SUN	13,902	SP9BCH	8,085
SM6ASD	13,481	CE8FZ	5,734
HA5CP	9,954	HP1AC	3,741

Multioperator High Scores

W/VE—Low Power		W/VE—High Power	
Call	Score	Call	Score
N2DCP	21,842	WA7EGA	60,819
VE3UR	12,358	VE7ZZZ	55,091
W3VK1GN	11,700	N0BG	48,633
W5VZF	8,272	KY1F	27,375
N4UNE	6,936	W7ZAC	16,065

DX—Low Power		DX—High Power	
Call	Score	Call	Score
SP2ZCD	340	U9CWA	48,500
		LZ2KIM	33,670



Pasquale, YV5KAJ, operated 4M5RY to the tune of 52k points to win the DX single-operator, low-power class.

52,427 points, a 20k improvement over his last year's score. This year's effort earned him first-in-class as well as a new record. EA9JV was second in a photo-finish race with G0ATX, who placed third.

HK1LDG piloted 5K1R to a new record and first place in the high-power DX section. He parlayed a three-hour operating edge over second-placed KL7XD into a seven-multiplier advantage for the win. Third place went to AL7BB in the 49th state. Most of us would agree with Billy's assessment of the state of flux for the con-



The gang at VE3UR finished second-place, multioperator, low power. Shown (l-r) are: Gary, VE3NIT; Bert, VE3AXJ; Ray, VE3UR; and Jack, VE3IW.

test. "Propagation conditions were very good at this location, making it a most enjoyable weekend," he said.

Logs were received from 24 DXCC countries, 46 states, and four Canadian provinces. SM6ASD observed, "The low number of European participants was a disappointment. However, this was well compensated for by the impressive number of US stations to be found on the bands."

Still, there were lots of happy DXers. N2FF was one of them. "It was great to be able to work KE9A/DU3 and BY1QH," he said. W1HFN wasn't complaining either. "I would like to thank the operator of BY1QH for his tenacity in sticking with me through numerous QRZs and repeats," he said. "I can't wait until next year!"

The bulk of the activity was for WAS. "I was surprised," wrote OH2LU, "to have 42 of the lower 48 states in the log in one weekend. N1DM actually built a pileup!"

"There's an amazing difference," he said, "in responses between CQ TEST DE N1DM and CQ TEST FROM RI DE N1DM. I had quite a shock when I asked a station how many Rhode Island stations he had heard. He said that I was the second he had heard in 30 years, and he is in Massachusetts!" K1HK1, who also got a lot of attention, said, "It would seem that I was the 50th state for many working RTTY WAS and was a new multiplier time and again. I'm glad I decided to go on 40 for the last hour—I was very busy!"

In multiop, first place went to WA7EGA (and friends K7DSR, WB7AVD and N7KRG) who established a new class record by slipping past an enthusiastic bunch of Canadians (VE7s ARS, AV, DRS, DSN, EME, SK and SSS) operating VE7ZZZ. They spent nine hours plowing

snow-drifted roads to reach their mountain contest site for the Roundup but, according to VE7ZZZ, "It was worth it!" A two-op effort by N0BG and KA0KPG nosed past UZ9CWA by 133 points to place third in a field of 16 multioperator entries.

UZ9CWA lamented, "We worked 49 states, but we have never heard KH6." Maybe there was a northern path problem. From KL7XA, "I just about did WAS RTTY in one day but I'm not sure if anyone lives in South Dakota or Hawaii."

Somehow, mid-winter contests always seem to spell antenna trouble. WJ7S summed up the pattern: "It was a little hard to turn the beams with 50-60 mi/h winds." At WA7EGA we had the same problem as we stripped gears trying to rotate a 42-foot boom in 65 mi/h gusts. Although I suspect that wintertime in Hawaii has a slightly different flavor, AH6IX grumbled, "I finally got my 40-meter dipole up...after the contest!" Dipoles do seem to have been a problem. I can sympathize with KD8GC who wrote, "My worst moment was installing a homebrew dipole for 40 meters in the rain." WA8FLF was testing his smoke detector. "Loading 14 MHz into the 7-MHz delta loop resulted in some crazy SWR readings and some weird crackling noises with sparks from the antenna tuner," he said. "I don't recommend it!" The antenna situation was pretty well summed up by AB4SF, with his observation that "Wintertime contests are events designed to point out serious and recently developed troubles in one's antenna system." Heh, AMEN! At least there was one success story. VE6EZ proudly proclaimed, "My haywire lash-up worked OK!"

"It was a super contest, very enjoyable, without a lot of pressure," said KA2WYE. In the Roundup, there always seemed to be

a second or so to add an encouraging word or a quick hello. Comparing his previous contest experience to RTTY, WH6I said, "This seemed a lot friendlier and more relaxed than SSB or CW." N3GLE remarked, "I made a lot of new friends in the test."

It also was nice to see some new call signs on the bands. What's that sound? N2FTR said, "I just 'discovered' the other modes besides packet on my PK-232!" SP2ZCD wrote, "This was our club's first contest. We'll be a lot better next year!" KM4IG got caught. "I didn't plan to enter the contest at first," he said, "but once I got on the air and made a few QSOs I decided to enter." WF5T also did the right thing. "I had never seriously entered a contest in 20 years—until this one." It's about time, Paul!

Everyone agrees, the Roundup is the one to run. NT3B exclaimed, "This was one great contest! I waited all year for this one, and then it was over too soon. After a



Lee, WB6SSW, pounds away at the keyboard working one of his 252 QSOs and 64 multipliers from LAX.

while, my brain got slower than my hands." Don, AA5AU, pretty much said it all. "This is by far the most exciting of all RTTY contests!"

SOAPBOX

Many of my contacts were with non-contesters (9J2AL). I had a lot of fun improving my personal

record of RTTY QSOs per hour—it's now up to 35! (YO2IS). It seemed like there was more activity this year! It was a great contest, I wish that conditions had been better here for more DX contacts (NU1E). My new "high-tech" contest rig arrived two days before the contest, only to have Murphy strike. I wish we had a contest logger like CT, but with RTTY capability so we wouldn't need two computers to work the contest! (KC2FD). I wish that I had an additional couple of hours, but had to squeeze the contest in between my harmonics soccer games. I only operated 50 watts into dipoles this year, as my linear and beam had failed, and still did better (KD2BW). Although I couldn't spend as much time as I would have liked to, I still enjoyed the time I was able to indulge (WA2SYN). I was more confident this year, and had a lot more fun (WA3SDV). I just got started on RTTY in late October and am having a lot of fun with it (WA9AQE). As a relative newcomer to RTTY, this really gave me a chance to hone my operating skills, as well as contact many new states and countries. My XYL is great. Saturday was her birthday and she still let me operate (AB4GR). I spent more time in front of the monitor and keyboard than I did in front of the transceiver (W7LHO). I can't speak from experience, but this seemed to be a good contest (N6RJB). It can get frustrating as a Novice when no one seems interested in moving above 28.100! (KB8HZE). My objective this year was to double my number of QSOs from last year, and I did it! (VE2OWL).

Scores

Scores are listed by continents, DXCC countries and ARRL/CRRL Sections. DX stations are listed first, then US and Canada. Within each country or section, single-operator scores are listed first, then multioperator scores. Each line score lists call sign, final score, number of QSOs, number of multipliers, hours operated and power (A = less than 150-W output; B = more than 150-W output).

Africa

Canary Islands

EA8AKQ 18,462-181-102-15-A
EA8RA 10,384-176-59-23-B

Ceuta and Melilla

EA9JV 28,835-365-79-24-A

Zambia

9J2AL 26,720-334-80-24-B

Asia

Japan

JA3DLE/1 9,350-170-55-14-A
JA3BSH 546-26-21-12-A
JA1WYQ 300-20-15-4-A

Asiatic RFSFR

UZ9CWA (UA9s CFV,CGA,UV9CAF
UZ9CU, ops)
48,500-500-97-24-B

Europe

Federal Republic of Germany

DK3EA 5,229-83-63-10-A

France

F8GVK 1,404-52-27-7-A

England

G0ATX 27,924-358-78-24-A
G0ARF 17,537-247-71-22-A
G4MKO 5,418-126-43-18-A

Wales

GW8ANA 4,859-113-43-21-A

Hungary

HA5CP 9,954-158-63-16-A

Italy

I2KYM 11,088-168-66-7-B
IO0KHP 4,004-91-44-13-A

Norway

LA6BX 1,980-55-36-10-A

Bulgaria

LZ2KIM (LZ2MP,op)
33,670-370-91-24-B

Finland

OH2LU 25,160-296-85-16-B

Belgium

ON9CEB 2,800-80-35-14-A

Denmark

OZ7FN 1,092-42-26-7-A

Netherlands

PA3DBS 16,848-234-72-24-A

Sweden

SM6ASD 13,481-221-61-24-A
SM4GVR 2,208-69-32-8-B
SM4CMG 840-42-20-3-B
SM4CJY 456-24-19-7-B

Poland

SP3SUN 13,802-206-67-24-A
SP9BCH 8,085-147-55-24-B
SP2ZCD (SP2UUU,SP9s 289GD,
313GD,ops)
340-20-17-24-A

Franz Josef Land

UA1OT 2-2-1-1-A

European Russian RFSFR

UA3TN 2,928-61-48-14-A

Romania

YO2IS 2,937-89-33-24-A

North America

Panama

HP1AC 3,741-87-43-24-B

Alaska

KL7XD 48,598-517-94-21-B
AL7BB 29,100-388-75-24-B
AL7BK 16,120-260-62-15-A
AL7LD 4,935-105-47-14-A

Oceania

Philippines

KE9AUD3 1,386-63-22-4-B

Hawaii

WH6I 5,566-121-46-9-A
AH6IX 2,079-63-33-10-A

Australia

VK3EBP 1,560-52-30-20-A
VK2BQQ 1,008-48-21-12-A

South America

Chile

CE3BFZ 5,734-122-47-24-B

Colombia

5K1R (HK1LDG,op)
52,116-516-101-24-B

Brazil

PY4HH 476-28-17-9-A

Venezuela

4M5RY (YV5KAJ,op)
52,427-509-103-22-A

Paraguay

ZP6XDW 1,344-48-28-24-A

Trinidad and Tobago

9Y4BU 2,016-63-32-10-B

W

Connecticut

NO1Y 32,120-365-88-20-A
NY1V 1,947-59-33-10-A
NF1J 1,584-48-33-6-A
WA3VIL 182-14-13-7-A
KY1F (+KA1RJ,J,KD3HN)
27,375-365-75-13-B

Eastern Massachusetts

KA1SDI 10,976-196-56-22-A
W1HFN 10,920-168-65-18-A
W1AX 8,640-135-64-6-A
N1FIO 6,650-133-50-10-A
K1CGJ 5,824-112-52-12-A
KC1JP 5,184-108-48-19-A

Maine

N1FJG 11,956-196-61-23-A
W9FXV/1 2,211-67-33-13-A
NS1Z 1,947-59-33-8-A
KA1SSU/T 1,092-39-28-9-A

New Hampshire

NU1E 27,540-324-85-24-A
KA1LMR 7,869-129-61-14-B
W1UBG 3,344-76-44-8-A
KC1HH 80-10-8-10-A

Rhode Island

KB1EM 50,313-541-93-24-B
N1DM 3,420-90-38-12-A

Vermont

K1HKI 14,480-241-80-20-A

Western Massachusetts

W1BYH 15,675-209-75-17-A
KA1QFU 11,408-184-62-24-A
KA1IFE 6,732-132-51-18-A

2

Eastern New York

WM2U 13,740-229-60-21-A
N2HOS 12,496-176-71-24-B
W2KHQ 5,564-107-52-13-A
W2ZPO 3,276-78-42-11-A
KE2JY 2,046-62-33-7-A
N2FTR 1,802-53-34-7-A
WB2VTD 1,666-49-34-15-A
KB2GKY/T 612-36-17-11-A

NYC-Long Island

KC2FD 32,648-424-77-24-A
N2FF 22,437-277-81-20-B
KD2BW 6,000-125-48-19-A
W2JGR 4,300-100-43-7-B
K2LCK 3,952-104-38-24-B

Northern New Jersey

NO2T 30,770-362-85-24-B
WA2PNI 15,820-226-70-23-A
ND2K 6,273-123-51-10-A
N2KAW/T 1,728-54-32-14-A

Western New York

KD2XN 15,696-218-72-21-A
WB2ZQP 11,590-190-61-18-A
W2PDT 8,415-153-55-19-A
W2YRH 5,772-111-52-24-B
WA2SYN 3,240-61-40-9-B
WT2Y 3,040-76-40-22-A
KA2WYE/T 814-37-22-13-A
NA2Q 520-26-20-2-B

3

Delaware

WA3ZKZ 14,868-236-63-18-A
KA3LNA 6,118-133-46-10-A

Eastern Pennsylvania

W3FV 32,718-399-82-24-B
NT3B 30,627-369-83-22-B
NM3E 14,981-211-71-24-A
KC3ST 7,398-137-54-18-A
N3GLE 6,858-127-54-24-A
NT3C 2,520-60-42-9-B
WA3SDV 1,188-44-27-14-A
KA3AFY 117-13-9-4-A
KA3DSX (+KA3HNM)
6,837-129-53-17-B

Maryland-DC

W3LPL (W3EKT,op)
62,933-611-103-23-B
NO3X 20,232-281-72-24-B
WB8WRY 15,314-247-62-20-A
KM3V 15,042-218-69-15-A
WB3DDF 14,701-241-61-23-A
WA3UXZ 10,710-210-51-24-A

KN3P 5,253-103-51-10-A
K9RRB/3 4,692-102-46-14-A
W3G3ZCZ 1,450-50-29-10-A
W3TUX 1,344-42-32-7-A
W3VK1GN (+WD4KYI)
11,700-195-60-24-A

Western Pennsylvania

WA9AQE 1,479-51-29-6-A

4

Alabama

AB4GR 7,400-148-50-22-A

Georgia

AA4TH 33,136-436-76-24-B
KD4W 21,284-313-68-22-A
KL7TF/4 4,992-104-48-14-A
WA4DYD 2,343-71-33-24-A

Kentucky

W4TOY 9,932-191-52-18-A
KN4CG 3,984-83-48-12-B

North Carolina

KA4JYS 23,940-285-84-16-A
KI4MI 12,104-178-68-19-A
WD4JBL 4,368-112-39-18-B

Northern Florida

W4HBK 46,092-501-92-24-B
KC4CSD 17,696-224-79-20-A
WC4E 4,410-105-42-24-B
N2DCP (+KA4WJP)
21,842-326-67-15-A

South Carolina

WA4BHK 8,001-127-63-13-A
NU7F/4 5,355-105-51-11-A
WB4NL 3,840-80-48-12-B

Southern Florida

KK4DK 7,860-131-60-18-A
N4ONQ/T 2,345-67-35-6-A
W1UDB/4 1,134-42-27-8-A
N4UNE (+KF4WB)
6,936-136-51-23-A

Tennessee

K4IBP 27,060-330-82-24-A
K4IBP 26,811-331-81-24-A
KD4MM 11,440-176-65-22-A
WA4MCZ 7,695-135-57-12-A

Virginia

KM4IG 5,424-113-48-20-A
K4FFP 2,211-67-33-9-A
AB4SF 456-24-19-7-A

5
Arkansas
WASVBE 2,277- 69- 33- 6-B

Louisiana
KGSEG 46,371- 533- 87- 23-A
AA5AU 45,150- 525- 86- 24-A

Mississippi
N5OVV 8,424- 156- 54- 18-A
W5VZF (KB4HB, WA4DDE, ops)
8,272- 176- 47- 22-A

New Mexico
W7LHO 22,997- 377- 61- 24-A
WF5T 10,296- 143- 72- 11-B

North Texas
KBSILS 3,492- 97- 36- 7-A
KGSQG 2,665- 65- 41- 12-A

Oklahoma
W5NBI 16,524- 243- 68- 13-A
K9WM 3,296- 103- 32- 11-A
WB0QIR/T 384- 32- 12- 7-A

South Texas
K5LTV 19,175- 295- 65- 24-A
K5FDV 11,041- 181- 61- 23-A
WB5YLT 425- 25- 17- 5-B

West Texas
WF5E 56,932- 662- 86- 24-B

6
East Bay
W6G0AZT 27,075- 361- 75- 24-A

Los Angeles
WB6SSW 16,128- 252- 64- 24-A

Santa Clara Valley
WA6SDM 13,920- 232- 60- 24-A
WD6FYJ 2,046- 66- 31- 19-A

San Diego
AA4M/6 30,266- 409- 74- 21-B

San Francisco
W6JOX 17,068- 251- 68- 22-B

San Joaquin Valley
WB6AKS/6 4,140- 90- 46- 8-A
N6RJB 2,318- 61- 38- 3-A

Sacramento Valley
N6GG 40,572- 483- 84- 23-B

7
Arizona
N7ZD 20,235- 285- 71- 20-A
WB0BZ 1,428- 51- 28- 10-A

Eastern Washington
W571 64,315- 677- 95- 24-B
WB7RBJ 31,995- 395- 81- 24-A
K7GS 5,772- 148- 39- 8-A
KD7H 1,701- 63- 27- 18-A

Idaho
WB7Y 25,740- 396- 65- 23-A
KB7FNI/T 6,109- 149- 41- 14-A

Oregon
WJ7S 27,120- 339- 80- 23-A
AJ7B 12,528- 216- 58- 24-B
NJ7H 6,210- 115- 54- 16-A

Western Washington
WA7PVE 15,759- 309- 51- 24-A
KC7QR 9,636- 146- 66- 17-B
N6RY7 1,014- 39- 26- 6-A
WA7EGA (+K7DSR, N7KRG,
WB7AVD) 60,819- 627- 97- 24-B

Wyoming
KB7M 2,266- 103- 22- 5-A
W7ZAC (+ops)
16,065- 255- 63- 18-B

8
Michigan
N8ABW 30,788- 358- 86- 22-B
WV8Q 15,960- 266- 60- 24-A

Ohio
AB8K 40,320- 420- 98- 20-B
W8PBX 15,368- 226- 68- 18-A
KD8GC 13,764- 186- 74- 17-A
W8LNL 13,608- 216- 63- 19-A
WX8X 3,185- 91- 35- 8-B
WB8WTS 1,421- 49- 29- 2-A
N8IRS/T 620- 31- 20- 12-A
KB8HZE/N 522- 29- 18- 8-A
WA8IMF 468- 26- 18- 7-A

West Virginia
WA8FLF 6,728- 116- 58- 21-B
N8AFA 5,995- 109- 55- 14-A

9
Illinois
W9KDX 19,275- 257- 75- 24-A
W9HLQ 10,675- 175- 61- 22-A
KA9ZVI 5,760- 120- 48- 10-A
WA9YII 5,719- 133- 43- 17-A
W9FFQ 3,654- 87- 42- 11-B

Indiana
WA2USA 10,192- 182- 56- 20-B
WB9CEP 8,745- 159- 55- 24-A
KB9ATR 5,290- 115- 46- 10-A
KA9DZM 3,600- 75- 48- 24-B
KC9UU 2,775- 75- 37- 24-A

Wisconsin
W9XU 13,826- 223- 62- 15-A

0
Colorado
N0NI 12,954- 254- 51- 8-B

Iowa
K0DJW 4,635- 103- 45- 17-A

Kansas
K6WZ 40,970- 482- 85- 24-B
WK5M 15,680- 261- 60- 24-B

KA8SIX 14,580- 270- 54- 20-A
W08E 11,816- 211- 58- 15-A
N8HYG 10,812- 204- 53- 21-A
W08M 1,512- 54- 28- 11-A
NW8F (+KA8REN, N8FMR)
2,666- 86- 31- 10-A

Minnesota
N1J0M 58,045- 611- 95- 24-B
KE0KB 48,598- 517- 94- 20-A
WE0Q 11,501- 217- 53- 20-A
WA0QIT 8,680- 155- 56- 18-A
K9VV 4,240- 106- 40- 9-A
WA0GMX 3,534- 93- 38- 24-B
N8IWL 2,145- 65- 33- 24-B
W08KS 1,550- 50- 31- 24-B
N08G (+KA0KPB)
48,633- 559- 87- 24-B

Missouri
WB8EJN 15,080- 280- 58- 16-A
K8BX 13,794- 209- 66- 20-B
K08Z (+N8FO)
1,533- 73- 21- 11-A

North Dakota
W0LHS 5,883- 111- 53- 24-B

Nebraska
N8GYN 16,284- 276- 59- 16-A
W8EGV 200- 20- 10- 8-A

VE
Quebec
VE2OWL 11,275- 205- 55- 22-A
VE2GDZ 1,378- 53- 26- 8-A
VE2FFE 450- 25- 18- 4-A

Ontario
VY9CC (VE3JPC, op)
31,902- 409- 78- 24-A
VE3CZ 8,294- 143- 58- 18-A
VE3JAN 3,120- 65- 48- 20-A
VE3UR (+VE3e AXJ, IW, NIT)
12,358- 167- 74- 24-A

Manitoba
VE4GV 17,856- 279- 64- 24-A

Alberta
VE6ZX 36,176- 476- 76- 23-A
VE6EZ 4,326- 103- 42- 13-A

British Columbia
VE7ZZZ (VE7s ARS, AV, DRS,
DSN, EME, SK, SSS, ops)
55,091- 619- 89- 24-B

Checklogs
KA1FW, EA6ZS, G4SKA, KS80,
N4WIO, NW8E, PY5BF, RA3AL,
SP2UUU, SP4KM, UA3XBB,
W4MTE

QST

W1AW Schedule

April 2-October 29, 1990

MTWThFSSn = Days of Week

Dy = Daily

W1AW code practice and bulletin transmissions are sent on the following schedule:

UTC	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 0200, 1300, 2300; TThSSn: 2000; Sn: 0200 MWF: 2000; TTh: 0200, 1300; TThSSn: 2300; S: 0200 Dy: 0000, 0300, 2100; MTWThF: 1400 Dy: 0100, 0400, 2200; MTWThF: 1500 Dy: 0130, 0430
EDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 9 AM, 7 PM; TThSSn: 4 PM, 10 PM MWF: 4 PM, 10 PM; TTh: 9 AM; TThSSn: 7 PM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 6 PM, 9 PM, 12 PM; MTWThF: 11 AM Dy: 9:30 PM, 12:30 AM
CDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 8 AM, 6 PM; TThSSn: 3 PM, 9 PM MWF: 3 PM, 9 PM; TTh: 8 AM; TThSSn: 6 PM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 5 PM, 8 PM, 11 PM; MTWThF: 10 AM Dy: 8:30 PM, 11:30 PM
MDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 7 AM, 5 PM; TThSSn: 2 PM, 8 PM MWF: 2 PM, 8 PM; TTh: 7 AM; TThSSn: 5 PM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 4 PM, 7 PM, 10 PM; MTWThF: 9 AM Dy: 7:30 PM, 10:30 PM
PDT	Slow Code Practice Fast Code Practice CW Bulletins Teleprinter Bulletins Voice Bulletins	MWF: 6 AM, 4 PM; TThSSn: 1 PM, 7 PM MWF: 1 PM, 7 PM; TTh: 6 AM; TThSSn: 4 PM Dy: 2 PM, 5 PM, 8 PM; MTWThF: 7 AM Dy: 3 PM, 6 PM, 9 PM; MTWThF: 8 AM Dy: 6:30 PM, 9:30 PM

Code practice, Qualifying Run and CW bulletin frequencies: 1.818*, 3.5815, 7.0475, 14.0475, 18.0975, 21.0775, 28.0775, 50.08*, 147.555* MHz.

Teleprinter bulletin frequencies: 3.625, 7.095, 14.095, 18.1025, 21.095, 28.095, 147.555 MHz.

Voice bulletin frequencies: 1.89, 3.99, 7.29, 14.29, 18.160, 21.39, 28.59, 50.19, 147.555 MHz.

Slow code practice is at 5, 7½, 10, 13 and 15 WPM.

Fast code practice is at 35, 30, 25, 20, 15, 13 and 10 WPM.

Code practice texts are from QST, and the source of each practice is given at the beginning of each practice and at the beginning of alternate speeds. For example, "Text is from January 1989 QST, pages 9 and 100" indicates that the main text is from the article on page 9 and the mixed number/letter groups at the end of each speed are from the contest scores on page 100.

On Fridays, UTC, a DX bulletin replaces the regular bulletin transmissions.

On Tuesdays and Saturdays at 2230 UTC, Keplerian Elements for active amateur satellites will be sent on the regular teleprinter frequencies.

Teleprinter bulletins are 45.45-baud Baudot, 110-baud ASCII and 100-baud AMTOR, FEC mode.

Baudot, ASCII and AMTOR (in that order) are sent during all 1500 UTC transmissions, and 2200 UTC on WThFSn. During other transmission times, AMTOR is sent only as time permits.

CW bulletins are sent at 18 WPM.

W1AW is open for visitors Monday through Friday from 8 AM to 1 AM EDT and on Saturday and Sunday from 3:30 PM to 1 AM EDT. If you desire to operate W1AW, be sure to bring a copy of your license with you. W1AW is available for operation by visitors between 1 and 4 PM Monday through Friday.

In a communications emergency, monitor W1AW for special bulletins as follows: voice on the hour, teleprinter at 15 minutes past the hour, and CW on the half hour.

W1AW will be closed on September 3.

*Temporarily off the air on 160, 6, 2