Results of the 2012 CQ WPX RTTY Contest

BY ED MUNS,* WØYK

The 18th annual CQ WPX RTTY Contest produced 1,236,594 QSOs, up 25% from 2011. Submitted logs were up 44% to 3546, aided by an aggressive effort from us to request logs. However, the number of active callsigns was down 9% to 10,109. Active prefixes were down a bit at 1999, as were countries at 178. Multi-Multi 9A1A snagged 1168 prefixes, a new world record.

Conditions shifted to the high bands, reducing the potential for double points on 40 and 80 meters. 15 meters produced the most QSOs, and 10 meters was much more productive than it has been in recent years. However, it still didn't produce as it did for the CQ WW RTTY Contest last fall. Here is a comparison of band activity for the past three years of WPX RTTY, showing percent of total QSOs per band:

Band	2010	2011	2012
80	13%	15%	11%
40	27%	28%	23%
20	36%	35%	27%
15	23%	21%	30%
10	0.5%	1%	9%

This is the second year that Single-Op (SO) QRP categories were available and 115 stations entered, up 49% from 2011. Rookie overlays more than doubled to 77, and Tribander/Wires overlays rose from 324 to 475.

The Low Power categories continue to be the most popular, accounting for 62% of the Single-Op entries. All-Band entries dominate 77% of the Single-Op entries. 105 Multi-Op logs were received, and 78 of those were Multi-Single.

Excluding the new QRP categories, fewer records were broken this year compared to 2011: *four* new world records and *thirteen* new continental records. The total number of new records is nevertheless impressive:

	World		Continent	
	New	Avail	New	Avail
SO10	2	3	11	18
SO15	1	3	7	18
SO20	2	3	8	18
SO40	1	3	4	18
SO80	1	3	2	18
SOAB	2	3	7	18
MS	1	1	4	6
M2		1	2	6
MM		1	2	6
Total	10	21	47	126

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Single-Operator QRP (115 entries)

Single-Operator, All Band (69). Rudolf TM3T broke his own world record with 1.2M points. Fellow countryman Gerard TM9K took second with 1.1M; Dmitry RX1CQ took third with 1M, and fourth place Gerald KØDU set a new North America record with 845K.

Single-Operator, Single Band 3.5 MHz (10). Toth HA1WD once again took top honors, breaking his inaugural world record with 289K. Stanislaw SP6EIY took second with 123K, and Alex UX5UU took third with 113K. All entrants were Europeans, same as last year.

Single-Operator, Single Band 7 MHz (7). Dmitrij UT3N set a new world record with 404K, Gulyas HG6C was second with 208K, and Stefano IK4UXA was third with 138K. Graham VE3GTC set the North America record with 11K. He and Jose CO2KY were the only non-Europeans to enter this category since its initiation last year.

Single-Operator, Single Band 14 MHz (10). Francisco TG9ANF set a new world record with 393K. Giorgio IK3NKL took second with 93K, and fifth place Erardo LU6FT set the new South America record with 2.6K.

Single Band 21 MHz (13). Javier EA4EQD set the new world record with 109.4K, and Hiro JH3DMQ was right on his heels for second place with 108.6K, four times his world record set in 2011.

Mike K1DM driving one of the NG1G (@ W1AN) positions to their Multi-Two North America win.

John W1XX watches Pat NG1G work another one for NG1G (@ W1AN).

2012 CQ WPX RTTY CONTEST TROPHY SPONSORS AND WINNERS

Single Operator All Bands High Power

World: Sponsored by Jeff Blaine, AC0C. **Winner: P49X (op: Ed Muns, W0YK)**
Asia: Sponsored by Tyler Stewart, K3MM. **Winner: Vadim Ovsyannikov, R9DX**
Europe: Sponsored by DL-DX RTTY Contest Group. **Winner: UZ2M (op: Roman Tkachenko, UR0MC)**
North America: Sponsored by Jeff Demers, N1NSB. **Winner: Mike Sims, K4GMH**
Canada: Sponsored by Steve Frick, N6QEK/VY1. **Winner: Lee Sawkins, VE7CC**
USA: Sponsored by Glenn Vinson, W6OTC. **Winner: Bud Trench, AA3B**
USA 7th Call Area: Sponsored by Hank Lonberg, KR7X (in memory of Bob Wruble, W7GG). **Winner: KS7AA (op: Jeff Stai, WK6I)**
CONO SUR (CE-CX-LU): Sponsored by LU-CG Contest Group. **Winner: LV5V (op: Jorge Krienke, LU5VV)**

Single Operator All Bands Low Power

World: Sponsored by Mike Sims, K4GMH. **Winner: PJ4R (op: Roger Hoffman, N4RR)**
Asia: Sponsored by Doug Faunt, N6TQS. **Winner: UP7P (op: Artem Loparev, UN7PBY)**
Europe: Sponsored by Trey Garlough, N5KO. **Winner: SO8T (op: Lukasz Ciuba, SP8TJU)**
North America: Sponsored by Wayne King, N2WK. **Winner: Fabi Berttolotto, VA2UP**
Oceania: Sponsored by Doug Faunt, N6TQS. **Winner: Felimon Morano, Jr., DV1JM**
Canada: Sponsored by Mike Donohue, VE3YF. **Winner: Richard Ferch, VE3KI**
USA: Sponsored by Jim Reisert, AD1C. **Winner: WE4M (op: Mark Sihlanick, N2QT)**
CONO SUR (CE-CX-LU): Sponsored by LU-CG Contest Group. **Winner: Sebastian Torti, LU7FTS**

Single Operator All Bands QRP

World: Sponsored by Mississippi Valley DX & Contest Club. **Winner: TM3T (op: Rudolf Ruffer, F5VBT)**

Single Operator Single Band

3.5 MHz World High Power: Sponsored by Sue Cook, AI6YL/P40YL. **Winner: IQ4RA (op: Gianfranco Aviani, I4AVG)**
7 MHz World High Power: Sponsored by Randy Hatt, AA8R. **Winner: Tine Brajnik, S50A**
7 MHz World Low Power: Sponsored by Don Reed, K2OGD. **Winner: Michael Kastelic, OE1MCU**
14 MHz World High Power: Sponsored by Steve "Sid" Caesar, NH7C. **Winner: John Bayne, KK9A**
14 MHz World Low Power: Sponsored by Kenny Young, AB4GG. **Winner: Nemeth Tibor, HG7T**
21 MHz World High Power: Sponsored by Steve Jarrett, K4FJ. **Winner: Will Angenent, KN6DV**
28 MHz World High Power: Sponsored by Steve Hodgson, ZC4LI. **Winner: Rene Giorda, LU7HN**
28 MHz North America Low Power: Wray Dudley, AB4SF. **Winner: Nicolas Queru, FG4NO**
28 MHz Japan Low Power: Sponsored by JA6ZPR GOMAGARA Contest Club. **Winner: Masaki Okano, JH4UYB**

Multi-Op Single Transmitter

World: Sponsored by Steve Merchant, K6AW. **Winner: 5D5A (ops: IW1AYD, IZ1LBG, IK2QEI, IK2SGC, IZ4GWE, CN8WW)**
Europe: Sponsored by CT3 Madeira Contest Team/CT9M/CQ9K. **Winner: ED1R (ops: EA1CJ, EA4AOC, EC1KR, EC4DX, EA4TD)**
North America: Sponsored by Whatcom Amateur Radio Society WA7RS. **Winner: K1SFA (ops: K1MK, K1SFA)**

Multi-Op Two Transmitter

World: Sponsored by Roger Hoffman, N4RR. **Winner: HG1S (ops: HA1TJ, HA1DAC, HA1DAI, HA1SM, HA7PL, H\A1DAE)**
North America: Sponsored by Ed Muns, W0YK. **Winner: NG1G (ops: W1AN, K1DM, K3IU, W1PN, NG1G)**
USA: Sponsored by CTRI Contest Group. **Winner: KF5HHD (ops: KF5HHD, N5RZ)**

Multi-Op Multi-Transmitter

World: Sponsored by Abroham Neal Software by K3NC. **Winner: 9A1A (ops: 9A2DQ, 9A5E,**
9A5W, 9A6A, 9A7IMR, 9A7R, 9A9A)
North America: Sponsored by Fred Dennin, WW4LL. **Winner: NR4M (ops: NR4M, K7SV, K4EU, K4EC, N3ZV, K4GM, N4JOW, N4NW)**
Canada: Sponsored by KA4RRU Contest Group. **Winner: VE7UF (ops: VE7FO, VE7IO, VA7HDJ, UW0CN, VA7FC, VE7NDE, VE7UF)**

Club Competition

World: Potomac Valley Radio Club. **Winner: Bavarian Contest Club**
North America: Northern California Contest Club. **Winner: Potomac Valley Radio Club**

Steve VK3TDX happily running up his score to win SO HP Oceania.

Third place Papp HA6FQ had 30K, and eighth place Paul N8HM set the new North America record with 8K.

Single-Operator, Single Band 28 MHz (6). Franc S54AA set the world record with 44K, fourth place Glenn NA5NN set the North America record with 5K, and Agus YB1ALL set the Oceania record with 240 points! There were no entries last year, so the six entrants this year had a wide-open field.

Single-Operator Low Power (1934 entries)

Single-Operator, All Band (1480). Roger PJ4R (N4RR) pushed his own world record up 12% to 7.6M. Mohamed 5C5W (CN8KD) raised his own Africa record for second place with 5.5M points. Fabi VA2UP took third and the new North America record with 5M, and Sue P40YL took fourth with 4.8M. Fifth place Artem UP7P set a new Asia record with 3.8M.

Single-Operator, Single Band 3.5 MHz (42). Burkhard DF8XC took first place with 795K, Vinko S53F was second with 638K, and Jacek SP9BNM was third with 585K. Sixth place Daniel VC2E made 448K for a new North America record.

Single-Operator, Single Band 7 MHz (91). Michael OE1MCU was first with 1.8M, Miro YU1AST took second with 1.4M, and Juan YW5T was third with 1.3M and the new South America record.

Single-Operator, Single Band 14 MHz (108). Nemeth HG7T came back to beat his 2011 world record by 26% with a 2012 score of 2.1M. Paco EA3GLB tried 20 meters this year after setting the 40 meter Low Power world record last year and took second with 1.3M points. Alberto EA1OS was third with 1M, Rajcic YT5W (YT2PFR) was fourth with 774K, and Alex RV9CP took fifth with 733K for a new Asia record.

Single-Operator, Single Band 21 MHz (126). Liam EI3GC won with 887K,

2012 CQ WW WPX RTTY TOP SCORES

WORLD

SINGLE OPERATOR
HIGH POWER
ALL BAND

P49X (WØYK) 11,632,690
R9DX 7,508,149
UZ2M (URØMC) 7,476,480
RG9A 7,196,016
K4GMH 6,969,456

28 MHz

LU7HN 1,507,101
RY9C 641,512
KG6DX 352,089

21 MHz

KN6DV/1 2,253,537
N2WK 2,087,680
9A5Y (9A3NM) 1,987,008
UW4I (US5IQ) 1,648,393

14 MHz

KK9A/4 2,400,510
SO4M (SP4K) 2,200,496
ES4RD 1,130,286

7 MHz

S5ØA 4,918,274
EO4M (UR5MW) 3,952,800
OK3R 2,767,884

3.5 MHz

IQ4RA (I4AVG) 1,488,884
SN2M (SP2XF) 1,380,062
IZØKBR 1,300,604

LOW POWER
ALL BAND

*PJ4R (N4RR) 7,600,000
*5C5W (CN8KD) 5,518,968
*VA2UP 5,032,339
*P4ØYL 4,839,181
*UP7P (UN7PBY) 3,795,336

28 MHz

*EA8MT 1,271,430
*KH6ZM 798,222
*FG4NO 348,721

21 MHz

*EI3GC 887,094
*M7W (G3TBK) 696,654
*CT1EEK 635,091

14 MHz

*HG7T 2,130,776
*EA3GLB 1,333,458
*EA1OS 1,013,460

7 MHz

*OE1MCU 1,847,678
*YU1AST (YU2A) 1,395,450
*YW5T (YV5JBI) 1,331,748

3.5 MHz

*DF8XC 795,396
*S53F 637,560
*SP9BNM 584,672

QRP
ALL BAND

TM3T (F5VBT) 1,229,088
TM9K 1,075,306
RX1CQ 1,010,240
KØDU 845,500
IZ8JFL/1 663,216

28 MHz

S54AA 44,128
RU7A 19,812
EW1FR 5,560

21 MHz

N7AT (K8IA) 243,726
EA4EQD 109,431
JH3DMQ 108,580

14 MHz

TG9ANF 393,104
IK3NLK 92,684
EA1GFY 11,808

7 MHz

UT3N (UT3NK) 403,788
HG6C (HA6IAM) 207,746
IK4UXA 138,240

3.5 MHz

HA1WD 289,212
SP6EIY (SP6EIY/QRP) 123,000
UX5UU 112,548

MULTI-OPERATOR
SINGLE TRANSMITTER

5D5A 15,579,564
ED1R 9,873,600
OM3KFF 7,098,826
S51A 7,069,062
OH8X 6,815,487

MULTI-OPERATOR
TWO TRANSMITTER

HG1S 12,643,928
RWØA 10,232,432
F4ERS 10,025,586
LS1D 9,784,614
S55W 9,245,580

MULTI-OPERATOR
MULTI-TRANSMITTER

9A1A 22,856,592
NR4M 13,448,106
OH6R 10,278,215
VE7UF 7,584,460
DL1DVE 6,733,432

ROOKIE
ALL BAND

OE6MMF 1,082,840
YP6Z (YO6PZZ) 1,071,115
W1PL 536,928
IZ3KUY 279,282
VE7SQ 162,588

21 MHz

JO4CTB 78,210

LOW POWER
ALL BAND

*F4GDI 970,288
*LX1C 540,540
*AB1OD 532,560
*CO2IZ 384,256
*PDØDK 298,890

28 MHz

*KD8RKP 36,698
*K6OK 11,780
*OH6K (OH6FSG) 9,633

21 MHz

*IZØUME 145,530
*DO3KMF 100,275
*SQ8KFH 27,146

14 MHz

*SV1MRV 19,488
*IZ7SIA 17,112

7 MHz

*IZ7SLF 10,608
*AK4EM 8,200

TRIBANDER/SINGLE ELEMENT
HIGH POWER
ALL BAND

ST2AR 4,219,919
DL4MCF 4,113,044
GW4SKA 3,239,328
DD2ML 3,091,200
WA2ETU 2,739,429

28 MHz

ED5J (EA5DM) 24,252
UZ5Q (UY5QZ) 270

21 MHz

KN6DV/1 2,253,537
UN4PG 1,057,464
W5AP 992,970

14 MHz

IT9MUO 737,100
RW4WZ 160,064
JHØNOS 142,003

7 MHz

S51CK 1,617,414
W6WRT 746,586
VY2SS 498,688

3.5 MHz

HA3LI 936,768
N2EIK 69,940
WX3SKY (K3RWN) 19,866

LOW POWER
ALL BAND

*ZX2B (PY2MNL) 3,548,440
*7Z1SJ 2,288,608
*DL9YAJ 1,997,056
*ON4CT 1,911,576
*HI8PLE/7 (HI8PLE/7) 1,795,311

28 MHz

*ZM3T (W3SE) 94,237
*XQ7UP 78,048
*TG9AJR 55,806

21 MHz

*CT1EEK 635,091
*N2YBB 294,512
*JH8SIT 235,176

14 MHz

*EA1OS 1,013,460
*YT5W (YT2PFR) 774,367
*IW9FDD 432,525

7 MHz

*YU1AST (YU2A) 1,395,450
*OK2RU 957,584
*IW4EGX 943,714

3.5 MHz

*UZ2HZ 577,574
*SP5ECC 277,300
*IKØXBX 129,368

UNITED STATES

SINGLE OPERATOR
HIGH POWER
ALL BAND

K4GMH 6,969,456
AA3B 6,694,164
K1LZ (N2WQ) 4,576,404
W4PK 3,867,435
AK1W (K5ZD) 3,758,941

28 MHz

K7OX 126,902
N5MOA 7,550
WB1AEL 4,368

21 MHz

KN6DV/1 2,253,537
N2WK 2,087,680
K4FJ 1,646,740

14 MHz

KK9A/4 2,400,510
K7AWB 827,938
NC7J (W7CT) 531,576

7 MHz

NO4S (K9OM) 1,963,648
W4DXX 1,953,928
N5ZM 1,707,804

3.5 MHz

N2EIK 69,940
W6RLL/7 37,572
WA3FRP 28,724

LOW POWER
ALL BAND

*WE4M (N2QT) 3,430,000
*NØXR 2,136,111
*K9NR 2,055,760
*AD7JP (K2PO) 1,835,437
*WW3S 1,754,657

28 MHz

*NA4W (K4WI) 111,100
*W7OM 40,334
*KD8RKP 36,698

21 MHz

*WNØL 298,851
*W9ILY 298,185
*N2YBB 294,512

14 MHz

*W1ZD/7 315,595
*W4LC 282,201
*KC1UX 97,185

7 MHz

*WA1FCN/4 768,120
*K8SM 407,824
*AB1J 261,954

3.5 MHz

*KS4S 54,516
*N2AET 32,040
*KC8IMB 31,872

QRP
ALL BAND

KØDU 845,500
K2YG 566,040
N6WG 90,643
AI9K 51,534
KB2HSH 20,315

28 MHz

NA5NN (K2FF) 4,664
K3TW/4 945

21 MHz

N7AT (K8IA) 243,726
N8HM/3 7,749
K6VHF 3,840

MULTI-OPERATOR
SINGLE TRANSMITTER

K1SFA 6,257,608
WW4LL 4,689,548
NAØCW 3,988,480
ND2T/6 3,241,841
W3MF 2,412,319

MULTI-OPERATOR
TWO TRANSMITTER

NG1G 6,963,268
KF5HHD 4,692,510
K9XD 3,906,750
KU6W 1,517,880
WQ2N 929,187

MULTI-OPERATOR
MULTI-TRANSMITTER

NR4M 13,448,106
AK7AZ 1,439,152

ROOKIE
HIGH POWER
ALL BAND

W1PL 536,928
NR9J 325

LOW POWER
ALL BAND

*AB1OD 532,560
*KJ4WLN 183,556
*KC2WYL 72,352
*KO4PU 63,315
*N3UE 55,062

28 MHz

*KD8RKP 36,698
*K6OK 11,780

7 MHz

*AK4EM 8,200

TRIBANDER/SINGLE ELEMENT
HIGH POWER
ALL BAND

WA2ETU 2,739,429
K4FX 1,291,290
K9QC 1,172,841
NO2T 1,139,968
WX6V 1,076,850

21 MHz

KN6DV/1 2,253,537
W5AP 992,970
NK6A 107,590

14 MHz

WG7X 141,840

7 MHz

W6WRT 746,586
KØPK 428,040

3.5 MHz

N2EIK 69,940
WX3SKY (K3RWN) 19,866

LOW POWER
ALL BAND

*AB4SF 1,003,860
*KB3LIX 623,751
*NJ1H 595,960
*N2WN/4 590,503
*KM1W (W1UE) 486,755

28 MHz

*WB8JUI 7,370
*KD5JHE 5,104

21 MHz

*N2YBB 294,512
*KB9S 22,790
*AA4U 260

14 MHz

*W1ZD/7 315,595

7 MHz

*K8SM 407,824
*AB1J 261,954
*W3NR/4 20,382

3.5 MHz

*N2AET 32,040

EUROPE

SINGLE OPERATOR
HIGH POWER
ALL BAND

UZ2M (URØMC) 7,476,480
RD3A 6,518,369
LB8IB 5,688,896
SN7Q 5,156,900
S52OP 5,023,877

28 MHz

IO4C (IZ4DPV) 340,272
DL4RCK 89,270
M3I (GØORH) 88,067

21 MHz

9A5Y (9A3NM) 1,987,008
UW4I (US5IQ) 1,648,393
DF9ZP 1,560,706

14 MHz

SO4M (SP4K) 2,200,496
ES4RD 1,130,286
TM57M (F1NGP) 1,082,088

7 MHz

S5ØA 4,918,274
EO4M (UR5MW) 3,952,800
OK3R 2,767,884

3.5 MHz

IQ4RA (I4AVG) 1,488,884
SN2M (SP2XF) 1,380,062
IZØKBR 1,300,604

LOW POWER
ALL BAND

*SO8T (SP8TJU) 3,496,521
*SO9UM 3,291,600
*LY6A 2,733,836
*EF3A (EA3KU) 2,658,720
*OO6A (ON5MF) 2,345,862

28 MHz

*F4FDA 124,257
*IKØEIE 52,125
*RA9FEL 51,456

21 MHz

*EI3GC 887,094
*M7W (G3TBK) 696,654
*CT1EEK 635,091

14 MHz

*HG7T 2,130,776
*EA3GLB 1,333,458
*EA1OS 1,013,460

7 MHz

*OE1MCU 1,847,678
*YU1AST (YU2A) 1,395,450
*OK2RU 957,584

3.5 MHz

*DF8XC 795,396
*S53F 637,560
*SP9BNM 584,672

QRP
ALL BAND

TM3T (F5VBT) 1,229,088
TM9K 1,075,306
RX1CQ 1,010,240
IZ8JFL/1 663,216
IK5RUN 589,268

28 MHz

S54AA 44,128
RU7A 19,812
EW1FR 5,560

21 MHz

EA4EQD 109,431
HA6FQ 30,240
IV3AOL 25,665

14 MHz

IK3NLK 92,684
EA1GFY 11,808
YO3DAC 11,088

7 MHz

UT3N (UT3NK) 403,788
HG6C (HA6IAM) 207,746
IK4UXA 138,240

3.5 MHz

HA1WD 289,212
SP6EIY (SP6EIY/QRP) 123,000
UX5UU 112,548

MULTI-OPERATOR
SINGLE TRANSMITTER

ED1R 9,873,600
OM3KFF 7,098,826
S51A 7,069,062
OH8X 6,815,487
OK1KSL 4,594,366

MULTI-OPERATOR
TWO TRANSMITTER

HG1S 12,643,928
F4ERS 10,025,586
S55W 9,245,580
DL0CS 8,145,040
SN2B 8,061,808

MULTI-OPERATOR
MULTI-TRANSMITTER

9A1A 22,856,592
OH6R 10,278,215
DL1DVE 6,733,432

ROOKIE
HIGH POWER
ALL BAND

OE6MMF 1,082,840
YP6Z (YO6PZZ) 1,071,115
IZ3KUY 279,282

LOW POWER
ALL BAND

*F4GDI 970,288
*LX1C 540,540
*PDØDK 298,890
*EA5HRT 222,640
*SV2HTI 208,980

28 MHz

*OH6K (OH6FSG) 9,633
*IZØINX 3
*IZ1PKV 0

21 MHz

*IZØUME 145,530
*DO3KMF 100,275
*SQ8KFH 27,146

14 MHz

*SV1MRV 19,488
*IZ7SIA 17,112

7 MHz

*IZ7SLF 10,608

TRIBANDER/SINGLE ELEMENT
HIGH POWER
ALL BAND

DL4MCF 4,113,044
GW4SKA 3,239,328
DD2ML 3,091,200
YL9T (YL2TW) 2,385,600
GM8SBH (GMØFGI) 1,867,635

28 MHz

ED5J (EA5DM) 24,252
UZ5Q (UY5QZ) 270

21 MHz

DL3BQA 727,818
G6NHU 699,540
YO3VU 448,825

14 MHz

IT9MUO 737,100
RW4WZ 160,064
S57YK 139,216
YO5OHY 94,392

7 MHz

S51CK 1,617,414
EW4MM 422,408
OK8WW 134,596

3.5 MHz

HA3LI 936,768

LOW POWER
ALL BAND

*DL9YAJ 1,997,056
*ON4CT 1,911,576
*DL1QW 1,623,392
*S56A 1,504,256
*DL1YD 1,363,998

28 MHz

*EA3NO 40,600
*YT2B 27,416
*PAØMIR 9,504

21 MHz

*CT1EEK 635,091
*OK2QX 87,156
*RX3AGQ 81,144

14 MHz

*EA1OS 1,013,460
*YT5W (YT2PFR) 774,367
*IW9FDD 432,525

7 MHz

*YU1AST (YU2A) 1,395,450
*OK2RU 957,584
*IW4EGX 943,714

3.5 MHz

*UZ2HZ 577,574
*SP5ECC 277,300
*IKØXBX 129,368

Low Power

2012 WPX RTTY CLUB SCORES

UNITED STATES

Club	# Entrants	Score
POTOMAC VALLEY RADIO CLUB	47	43,127,802
NORTHERN CALIFORNIA CONTEST CLUB	53	38,668,474
YANKEE CLIPPER CONTEST CLUB	35	21,752,767
SOCIETY OF MIDWEST CONTESTERS	21	21,154,676
FRANKFORD RADIO CLUB	15	18,816,311
CTRI CONTEST GROUP	9	10,854,589
ALABAMA CONTEST GROUP	15	8,724,079
ARIZONA OUTLAWS CONTEST CLUB	20	7,975,178
MINNESOTA WIRELESS ASSN	39	7,870,818
GRAND MESA CONTESTERS OF COLORADO	9	7,149,359
TENNESSEE CONTEST GROUP	18	6,698,766
SOUTHERN CALIFORNIA CONTEST CLUB	11	5,227,732
WILLAMETTE VALLEY DX CLUB	14	4,969,269
FLORIDA CONTEST GROUP	12	4,407,044
SPOKANE DX ASSOCIATION	12	4,002,590
CENTRAL TEXAS DX AND CONTEST CLUB	6	3,900,212
WESTERN WASHINGTON DX CLUB	9	3,127,784
ORLEANS COUNTY AMATEUR RADIO CLUB	4	2,754,513
NORTH COAST CONTESTERS	4	2,712,660
BERGEN ARA	5	2,654,752
SOUTHWEST OHIO DX ASSOCIATION	3	2,495,167
LONE STAR DX ASSOCIATION	4	2,017,835
CAROLINA SHINE	5	1,989,212
DELAWARE LEHIGH AMATEUR RADIO CLUB	4	1,797,809
ORDER OF BOILED OWLS OF NEW YORK	6	1,269,388
METRO DX CLUB	8	1,019,162
KANSAS CITY DX CLUB	4	1,011,558
TEXAS DX SOCIETY	4	962,329
BRISTOL (TN/VA) ARC	6	921,593
ALLEGHENY VALLEY RADIO ASSOCIATION	3	904,952
SOUTH EAST CONTEST CLUB	4	746,983
HUDSON VALLEY CONTESTERS AND DXERS	7	709,588
ROCHESTER (NY) DX ASSN	3	650,580
KENTUCKY CONTEST GROUP	5	571,639
LOW COUNTRY CONTEST CLUB	3	571,147
CAROLINA DX ASSOCIATION	4	481,144
MAD RIVER RADIO CLUB	4	465,321
MILFORD OHIO AMATEUR RADIO CLUB	3	374,150
NORTH CAROLINA DX AND CONTEST CLUB	4	218,421
WESTERN NEW YORK DX ASSOCIATION	3	73,753
UTAH DX ASSOCIATION	3	53,282

DX

BAVARIAN CONTEST CLUB	71	56,950,576
RHEIN RUHR DX ASSOCIATION	60	43,911,967
UKRAINIAN CONTEST CLUB	32	35,925,168
SLOVENIA CONTEST CLUB	13	28,278,252
CROATIAN CONTEST CLUB	9	26,874,443
CONTEST CLUB FINLAND	10	19,969,025
HA-DX-CLUB	7	17,474,721
ORCA DX AND CONTEST CLUB	9	16,063,011
URAL CONTEST GROUP	8	14,138,272
CONTEST CLUB ONTARIO	20	12,341,066
BLACK SEA CONTEST CLUB	26	11,201,141
LATVIAN CONTEST CLUB	9	11,055,186
RADIO CLUB HENARES	5	11,047,593
CONTEST GROUP DU QUEBEC	9	10,696,765
SOUTH URAL CONTEST CLUB	4	8,984,514
SP DX CLUB	11	8,675,484
RUSSIAN CONTEST CLUB	13	7,646,100
KAUNAS UNIVERSITY OF TECHNOLOGY RADIO CLUB	7	6,991,592
ARAUCARIA DX GROUP	11	6,615,676
LA CONTEST CLUB	3	6,371,825
LU CONTEST GROUP	10	5,615,074
TEMIRTAU CONTEST CLUB	5	5,293,106
RTTY CONTESTERS OF JAPAN	15	5,035,831
DONBASS CONTEST CLUB	13	3,769,381
Z37M CONTEST TEAM	3	3,671,143
DL-DX RTTY CONTEST GROUP	12	3,424,737
VK CONTEST CLUB	7	3,410,011
CHILTERN DX CLUB	6	2,949,400
KRIVBASS	3	2,894,574
599 CONTEST CLUB	5	2,828,903
GMDX GROUP	5	2,470,567
YU CONTEST CLUB	4	2,244,477
LITHUANIAN CONTEST GROUP	3	1,619,853
ARIPA DX TEAM	3	1,329,402
LES NOUVELLES DX	5	1,196,804
WORLD WIDE YOUNG CONTESTERS	5	997,622
MARITIME CONTEST CLUB	5	982,680
VYTAUTAS MAGNUS UNIVERSITY RADIO CLUB	3	955,193
ALRS ST PETERSBURG	3	906,271
YO DX CLUB	5	716,353
GRUPO DXXE	4	607,193
CT3 MADEIRA CONTEST TEAM	3	525,627
BOSNIA AND HERZEGOVINA CONTEST CLUB	5	473,250
PERUGIA CONTEST CLUB	5	460,748
ARCK	5	438,870
WEST SERBIA CONTEST CLUB	3	356,736
VU CONTEST GROUP	5	227,468
GERMAN DX FOUNDATION	3	168,152
CSM CLUJ-NAPOCA	3	158,309
VOLYN CONTEST GROUP	3	148,188
RIO DX GROUP	3	83,096
RU-QRP CLUB	4	77,124

The ED1R MS HP team who set the new Europe record. (Left to right standing: EA4AOC, DH1TW; left to right sitting: EC1KR, EA1CJ, EC4DX)

Dave M7W took second with 697K, and Nuno CT1EEK was third with 635K. Anatoly UN6G was fourth and tops in Asia. Seventh place Nur YB8EL set a new Oceania record of 335K.

Single-Operator, Single Band 28 MHz (87). The world record and all six continental records were set or broken in the 2012 contest. Dunia EA8MT broke the prior world record of 50K with an impressive 1.3M this time. Max KH6ZM took second and set the Oceania record at 798K. Third place Nicolas FG4NO was third with 349K and a new North America record. Fifth place Jose PU5ATX broke the South America record with 242K, and sixth place Vino RA9RR broke the Asia record with 208K. Eleventh place David F4FDA broke the Europe record with 124K.

Single-Operator High Power (1063 entries)

Single-Operator, All Band (841). Ed P49X (W0YK) won with 11.6M, down significantly from his prior two years. Vadim R9DX was second with 7.5M, Roman UZ2M was close behind with 7.5M, and Yuri RG9A was fourth with 7.2M. Fifth place Mike K4GMH edged out sixth place and fellow East Coaster Bud AA3B with 7.0M and 6.7M, respectively.

Single-Operator, Single Band 3.5 MHz (34). Scores were considerably down, and Gianfranco IQ4RA prevailed with 1.5M for first place. Mac SN2M was second with 1.4M, Mario IZØK-BR was third with 1.3M, and Bela HA8BE was fourth with 1.2M.

Single-Operator, Single Band 7 MHz (49). Tine S50A narrowly missed the world record, but set a new Europe record with 4.9M for first place. Victor EO4M was second with 4M, Miro OK3R was third with 2.8M, and Venko Z36W took fourth with 2.3M.

Single-Operator, Single Band 14 MHz (47). John KK9A/4 broke his own North America record by 0.5% with 2.4M, and Chris SO4M took second with 2.2M. Third place Anatoli ES4RD had 1.1M, while fourth place Yann TM57M (F1NGP) was close behind, also with 1.1M. Antonio CT3EN won Africa with 500K, and Yasushi JHØNOS won Asia with 142K.

Single-Operator, Single Band 21 MHz (63). Will KN6DV won with 2.3M for the new North America record. Wayne N2WK was second with 2.1M, and third place Jan 9A5Y set the new Europe record with 2M. Anatol UN4PG set a new Asia record with 1.1M.

Single-Operator, Single Band 28 MHz (29). Rene LU7HN won this category again with 1.5M. Second place Serge RY9C had 641K broke the Asia record, and third place Joel KG6DX broke

Rick N6DQ paper logging at ZL1/K6YL.

Joanna ZL1/K6YL enjoying the New Zealand scenery after winning MS Oceania with Rick N6DQ at the ZL1BD station.

the Oceania record with 352K. Fourth place Massimo IO4C won Europe with 340K, fifth Gary K7OX won North America with 127K, and Jose CT3DZ won Africa with 25K.

Multi-Operator (105 entries)

Multi-Operator Single-Transmitter (78). 5D5A at CN8WW (IW1AYD, IZ1LBG, IK2QEI, IK2SGC, IZ4GWE, CN8WW) set a new world record of 15.6M. Second place ED1R (EA1CJ, EA4AOC, EC1KR, EC4DX, EA4TD) set a new Europe record of 9.9M. OM3KFF (OM4CX, OM1ADX, OM0AAG, OM4DW) was third with 7.1M, and S51A followed closely in fourth with 7.1M. K1SFA at K1TTT (K1MK, K1SFA) set a new North America record of 6.3M. Joanna ZL1/K6YL teamed up with Rick N6DQ at Al ZL1BD's QTH for 3.7K to win Oceania!

If you think a contest win is beyond your reach, consider the experience of Joanna and Rick. They were on a trip through New Zealand and were invited by Al ZL1BD to stay at his QTH for a few days. Just as they arrived, Al's linear amplifier failed, and the three of them focused on getting it fixed. However, this occurred on the CQ WPX RTTY weekend and Joanna loves RTTY, so she and Rick couldn't resist getting on for a few QSOs as ZL1/K6YL. They did so by using the internal RTTY capability of Al's Icom-7600, sending calls and serial numbers via the USB keyboard connected to the radio. Logging was by hand. Imagine Joanna's surprise when informed that they won the MS Oceania category for CQ WPX RTTY. Certainly, only a very small number of contest participants can win, but don't assume it isn't possible!

Multi-Operator Two-Transmitter (20). HG1S (HA1TJ, HA1DAC, HA1DAI, HA1SM, HA7PL, HA1DAE) took first place with 12.6M points. RWØA (HA1TJ, HA1DAC, HA1DAI, HA1SM, HA7PL, HA1DAE) took second with 10.2M. F4ERS (HA1TJ, HA1DAC, HA1DAI, HA1SM, HA7PL, HA1DAE) was third with 10M. LS1D (LU3CT, LU3HY, LW1DTZ, LW9EOC) was fourth with 9.8M, for a new South America record.

Multi-Operator Multi-Transmitter (7). 9A1A (9A2DQ, 9A5E, 9A5W, 9A6A, 9A7IMR, 9A7R, 9A9A) won with 22.9M for a new Europe record and the second highest all-time score. NR4M (NR4M, K7SV, K4EU, K4EC, N3ZV, K4GM, N4JOW, N4NW) was second with 13.4M and the new North America record. OH6R (KØSSU, OH3FM, OH3FSW, OH3FZQ,

OH3LQK, OH3MMF, OH6MLC, OH6NMY) was third with 10.3M. Fourth place VE7UF (VE7FO, VE7IO, VA7HDJ, UW0CN, VA7FC, VE7NDE, VE7UF) set a new Canada record of 7.6M.

Club Competition

World. Once again the Bavarian Contest Club took top honors with 57M points from 71 logs, the highest of any club. The Rhein Ruhr DX Association took second with 43.9M from 60 logs.

North America. The Potomac Valley Radio Club was third, winning North America with 43.1M from 47 Logs. Fourth place Northern California Contest Club accumulated 38.7M points from 53 logs.

Log Checking

Besides determining the order-of-finish, log checking provides important feedback to operators on their operating skill. A station's score is a measure of how well it balances speed and accuracy of communication. A LCR (Log Check Report) is generated by the log-check software and is available by request to: <w0yk@cqwpxrtty.com>. Compare your LCR to the average reduction in this contest of 5.7%:

- 0.5% dupes
- 1.3% busted calls
- 2.5% busted exchange
- 1.4% NIL (Not-In-Log)

A goal of zero reductions is both unrealistic and sub-optimum for your score or communication effectiveness. Minimizing your reduction percentage significantly below the contest average and improving your past results would be better goals to seek.

Thanks to the large response from non-contesters who submitted their logs, nearly 86% of all QSOs in the contest were cross-checked between two logs. This increases the reductions a bit, while increasing the LCR accuracy and value.

A number of logs were missing either sent or received serial numbers, or both. Logs that had >50% reductions for this and other reasons were converted to checklogs. Most checklogs, however, were the chosen entry category of the submitter.

Acknowledgements

Thanks to the thousands of stations that converge on the contest weekend to make the event enjoyable for all of us. Special thanks to the many hours of effort by people outside the contest:

- Gail K2RED of *CQ* magazine expertly edits and assembles the output from log checking into this published article, as she does for all *CQ* contests.
- Ken K1EA provides the log-check software and consulting during log-check, along with Randy K5ZD.
- Mark K6UFO laboriously typed in paper logs and fixed problem logs.
- Bob KØRC, Pat KØPC, and Fred AA7BQ prototyped a simple system for us to send mass e-mail requests for missing logs.
- Mike K4GMH manages the CQ RTTY contest plaque program.
- Barry W5GN manages the certificate printing and mailing for this and all the *CQ* contests.
- Randy K5ZD set up the original website as well as the searchable scores database that was populated by Don AA5AU.
- SWL log checking is performed by Dan, I1-12387, using special log-check software written by Marek, SP7DQR.

Summary

For more information about this contest go to <www.cqwpxrtty.com>, and for the expanded results, including full tables, QRM, and ops of multi stations, go to <www-cq-amateur-radio.com> in the contests section.

Good luck in the next CQ WPX RTTY on 9–10 February 2013! See you then!—73, Ed, WØYK *(Scores beginning on p. 105)*

Number groups after call letters denote following: Band (A = all), Final Score, Number of QSOs, and Prefixes. An asterisk (*) before a call indicates low power. Certificate winners are listed in boldface. (Note that the country names and groupings reflect the DXCC list at the time of the contest.)

2012 CQ WPX RTTY RESULTS
SINGLE OPERATOR
NORTH AMERICA

United States

K1LZ	**A**	**4,576,404**	**1930**	**724**
			(OP: N2WQ)	
AK1W	"	3,758,941	1810	703
			(OP: K5ZD)	
W1BV	"	2,079,582	1440	571
K8PO/1	"	1,217,536	983	512
KA2KON/1	"	852,914	769	398
W1BYH	"	800,496	755	408
AE1T	"	625,920	627	384
W1PL	"	536,928	815	336
AJ1E	"	492,115	621	335
NA1QP	"	398,246	465	346
			(OP: W1CTN)	
WA1WPX	"	379,132	463	299
			(OP: W1UJ)	
W1TO	"	275,044	355	266
KA1GEU	"	267,288	410	259
KI1U	"	195,858	351	234
KT1B	"	168,364	286	196
KV1J	"	89,925	266	165
W1EL	"	62,272	178	139
NR1X	"	44,506	157	119
N1KWF	"	34,037	135	101
K1UO	"	32,552	111	104
WB4SON/1	"	32,178	109	93
K1SEZ	"	30,798	149	118
KA1QBO	"	29,799	126	99
W3IZ/1	"	29,072	104	92
W1KQ	"	23,157	99	93
W2JU/1	"	5,096	51	49
KX9X/1	"	2,660	39	38
W1NG	"	666	19	18
WB1AEL	**28**	**4,368**	**50**	**42**
KN6DV/1	**21**	**2,253,537**	**1389**	**663**
K6ND/1	**7**	**59,664**	**130**	**113**
***NJ1H**	**A**	**595,960**	**687**	**376**
*AB1OD	"	532,560	650	336
*KM1W	"	486,755	525	335
			(OP: W1UE)	
*K1PU	"	350,424	493	279
*KA1C	"	348,131	521	287
*WN1E	"	299,475	452	275
*WA1DRQ	"	290,076	446	276
*W1MAW	"	182,493	374	243
*WA1ZYX	"	166,690	343	211
*N1QD	"	149,995	331	229
*K1VU	"	124,800	312	195
*KK1X	"	110,630	294	185
*KS1J	"	101,904	236	176
*WA1N	"	88,722	214	159
*K1SM	"	88,009	212	167
*W1QK	"	78,660	240	171
*N1QDX	"	61,439	175	131
*KX1G	"	43,923	144	121
*AD1L	"	26,016	109	96
*W1MA	"	17,266	121	89
*K1DUQ	"	8,526	68	58
*W1CSM	"	6,318	40	39
*KJ1J	"	5,123	61	47
*W1QH	"	3,698	49	43
*KX1X	"	2,886	40	37
*W1MJ	"	828	25	23
***KC1UX**	**14**	**97,185**	**250**	**209**
***AB1J**	**7**	**261,954**	**389**	**231**
*N1GB	"	208	8	8
W2YC	**A**	**2,766,699**	**1417**	**663**
WA2ETU	"	2,739,429	1493	693
NO2T	"	1,139,968	984	488
K2ZC	"	831,488	747	406
W2GR	"	753,576	785	408
K2MK	"	507,088	610	328
KF2O	"	381,024	395	336
KZ2R	"	305,487	445	273
WS9M/2	"	287,985	504	263
W2LK	"	261,640	366	248
KI2P	"	217,128	380	249
N8CL/2	"	200,600	338	236
KC2LST	"	133,363	316	193
N2SQW	"	129,216	226	192
NG2P	"	89,500	244	179
W2YK	"	72,027	184	159
K2UF	"	42,800	120	107
WO2T	"	29,727	96	81
K2SLZ	"	25,474	128	94
NA2M	"	23,478	99	86
W2LE	"	22,790	100	86
KA2CYN	"	18,509	98	83
K2CDP	"	13,114	84	79
KC2KZJ	"	8,268	61	53
N2CJ	"	8,178	48	47
NJ1F/2	"	4,920	41	40
N2WK	**21**	**2,087,680**	**1304**	**640**
W2IUC	**14**	**36,084**	**138**	**124**
W1TY/2	**7**	**502,656**	**526**	**308**
N2EIK	**3.5**	**69,940**	**235**	**130**
K2CYE	"	15,544	101	67
***WA2LXE**	**A**	**612,896**	**732**	**358**
*AD2TM	"	241,304	411	278
*WA2MCR	"	197,664	396	213
*K2EN	"	160,746	379	219
*WB2OQQ	"	155,584	304	221
*AB2ZY	"	136,915	296	197
*N2MUN	"	130,398	284	211
*AA2MF	"	128,640	327	201
*K2DAR	"	102,243	205	197
*NY6DX/2	"	101,920	297	182
*KS2G	"	94,458	257	182
*KA2FHN	"	73,414	214	142
*KC2WYL	"	72,352	235	152
*W2MXL	"	69,496	218	136
*WB2PJH	"	63,420	205	151
*WB2SXY	"	58,424	199	134
*W2DXE	"	45,234	165	126
*WV2ZOW	"	43,911	172	119
*K2TV	"	42,036	150	124
*KB2NB	"	38,368	145	109
*N2KYX	"	37,260	162	135
*K2DSL	"	34,316	147	92
*W2HIY	"	28,684	130	101
*W2DZ	"	24,288	123	96
*N2JF	"	19,024	100	82
*K2SI	"	18,748	118	86
*K2ZL	"	18,696	116	82
*K2DLS	"	17,204	118	92
*WA3AFS/2	"	16,560	69	69
*N2SO	"	14,504	88	74
*KC2GLG	"	7,056	62	56
*K2PF	"	6,708	56	52
*NC2N	"	4,290	44	39
*WB2TPS	"	4,218	40	37
*KA2ANF	"	3,375	48	45
*WB2ABD	"	3,045	39	35
*N2AMG	"	1,300	26	26
*KC2MBV	"	1,288	24	23
***N2YBB**	**21**	**294,512**	**416**	**316**
***KC2RXS**	**14**	**58,876**	**218**	**164**
***N2AET**	**3.5**	**32,040**	**142**	**90**
AA3B	**A**	**6,694,164**	**2586**	**873**
W3LL	"	2,860,650	1423	650
W3FV	"	2,387,976	1371	584
K3WW	"	1,360,838	956	467
NB3R	"	1,050,720	966	480
K3MD	"	850,522	794	446
NJ3I	"	540,568	608	343
KD3TB	"	461,616	572	354
NE3H	"	259,974	396	286
K3OK	"	237,297	390	249
N3XL	"	190,944	342	234
N3SQD	"	180,166	349	238
WA3AAN	"	177,525	338	225
AI3Q	"	163,894	321	227
N3YEA	"	133,476	320	196
NN3RP	"	118,803	312	199
W2GPS/3	"	106,578	242	191
N3DXX	"	88,976	216	166
W3UL	"	60,350	206	142
WW3QB	"	29,103	121	109
N3IYX	"	26,355	135	105
WI2E/3	"	21,414	99	83
N3NZ	"	21,312	115	96
N3YIM	"	19,580	103	89
W3DAD	"	10,472	63	56
KW3A	"	4,370	42	38
WA3FRP	**3.5**	**28,724**	**135**	**86**
WX3SKY	"	19,866	108	77
			(OP: K3RWN)	
WØBR/3	"	952	23	17
***WW3S**	**A**	**1,754,657**	**1239**	**577**
*KB3LIX	"	623,751	668	353
*WB3FIZ	"	563,304	632	392
*KA3QLF	"	411,897	576	309
*K3TN	"	249,630	410	265
*K3CWF	"	210,795	421	235
*N3QE	"	188,258	334	226
*WA1LWS/3	"	182,040	344	222
*N8NA/3	"	180,360	349	216
*N3WD	"	172,144	372	212
*WD3K	"	167,205	367	213
*W4EE/3	"	161,200	336	200
*KN3A	"	158,006	337	199
*W3BUI	"	156,005	339	205
*N3ALN	"	149,968	340	206
*WB9KPT/3	"	144,401	327	197
*NZ3M	"	144,352	313	208
*AA3LX	"	123,195	258	191
*K3PG	"	99,960	242	168
*W3KB	"	67,536	167	134
*N3UE	"	55,062	173	126
*W3AG	"	49,268	140	109
*K3TXT	"	49,250	149	125
*KZ3X	"	48,576	168	138
*N3CHX	"	47,502	194	126
*NC3P	"	38,841	144	107
*NA3F	"	36,047	160	113
*W3DSX	"	34,768	147	106
*K3FS	"	28,997	131	107
*N3OJL	"	25,542	100	86
*KR1ST/3	"	23,944	98	82
*N5IIT/3	"	21,760	110	85
*W3DQT	"	18,870	94	74
*KB3VNH	"	17,762	113	83
*N3AFT	"	13,858	109	82
*AB3IC	"	12,172	79	68
*WC3O	"	10,857	91	77
*N3ZP	"	8,036	50	49
*W3SFG	"	6,642	64	54
*N3RDV	"	4,200	42	40
*WA2VQV/3	"	3,528	48	42
*AD2L/3	"	2,911	48	41
*N3JNX	"	1,200	28	24
*ND3R	"	684	19	18
***NF3/NH7C**	**28**	**902**	**22**	**22**
			(OP: NH7C)	
***N3GH**	**21**	**107,847**	**252**	**207**
*KO3T	"	32,844	141	119
K4GMH	**A**	**6,969,456**	**2669**	**816**
W4PK	"	3,867,435	1899	715
WB4YDL	"	2,378,688	1570	624
WX4G	"	1,763,556	1180	562
W4GKM	"	1,674,672	1450	556
K4FX	"	1,291,290	1017	473
N4CW	"	1,035,900	821	450
W2YE/4	"	979,484	869	452
KR4LO	"	847,044	775	414
N6AR/4	"	756,105	686	399
AJ4RW	"	714,215	780	415
K4MGE	"	699,209	768	413
WW4R	"	687,834	701	371
			(OP: N4ZZ)	
W4UK	"	620,370	845	366
K4CX	"	602,504	804	371
N4LV	"	589,149	592	363
W6IHG/4	"	589,119	631	359
NB4M	"	549,664	661	356
AD4EB	"	507,186	651	342
AA4DD	"	488,865	661	299
NJ4F	"	376,948	536	286
WY4Y	"	318,900	509	300
			(OP: NS3Q)	
W4XMT	"	268,136	425	242
N4MM	"	239,560	349	265
N4DW	"	238,832	415	253
KT4U	"	206,082	325	214
N4PJ	"	204,856	346	232
K5EK/4	"	189,189	327	231
K7OM/4	"	185,679	398	207
K4SV	"	183,330	288	210
NC4MI	"	176,300	397	205
NS4X	"	168,696	375	213
W4VIC	"	165,726	298	198
NS9I/4	"	162,540	360	215
KC4HW	"	157,920	333	224
K4HAL	"	156,891	395	217
N4BCB	"	155,448	349	204
W1AJT/4	"	140,322	246	182
			(OP: VE3UTT)	
AJ4CG	"	133,380	350	190
W4BQF	"	111,556	215	167
W4CBX	"	109,350	266	162
KJ4DHB	"	104,922	256	201
K3KO/4	"	99,288	192	168
N4QS	"	98,610	214	173
AB4IQ	"	97,405	188	161
W4BCG	"	77,121	218	171
W4WWQ	"	70,179	195	149
W5XB/4	"	66,693	155	129
W4BCU	"	63,504	214	144
ND1Y/4	"	55,266	170	122
KB4C	"	51,456	176	128
			(OP: N4AA)	
AJ4FM	"	40,392	135	108
N3BM/4	"	34,100	121	100
AI4WW	"	32,635	137	107
WB4YDY	"	31,488	132	96
KR4F	"	27,888	112	112
KA1KIX/4	"	24,255	143	105
WJ2D/4	"	19,305	76	65
W4GHD	"	18,772	96	76
NQ1W/4	"	15,770	89	83
WB4MSG	"	11,616	84	66
K4RO	"	7,744	83	64
WA4NMS	"	7,515	48	45
WK4Y	"	5,566	46	46
NN4K	"	5,148	33	33
WA3OFC/4	"	5,136	52	48
KF4LMW	"	4,712	43	38
KB4FB	"	3,900	42	39
K4JGR	"	3,894	37	33
W4JS	"	3,298	35	34
WR4B	"	1,980	23	22
K7CS/4	"	1,512	22	21
N4MRM	"	1,188	22	22
K4FJ	**21**	**1,646,740**	**1128**	**601**
K4WW	"	307,004	389	284
KK9A/4	**14**	**2,400,510**	**1477**	**710**
NO4S	**7**	**1,963,648**	**977**	**529**
			(OP: K9OM)	
W4DXX	"	1,953,928	1005	523
***WE4M**	**A**	**3,430,000**	**1850**	**686**
			(OP: N2QT)	
*AB4SF	"	1,003,860	891	429
*N2WN/4	"	590,503	631	367
*K1GU/4	"	547,485	597	323
*W4GDG	"	535,370	640	341
*K7RE/4	"	512,988	707	372
*AB4GG	"	408,576	572	304
*W6SAI/4	"	358,720	590	295
			(OP: K4CWW)	
*W1CCE/4	"	280,367	486	251
*W4PJW	"	272,837	489	251
*AJ4A	"	266,418	357	246
*K4FPF	"	236,697	357	257
*KU4V	"	236,289	429	237
*KJ4WLN	"	183,556	359	218
*AK4GD	"	179,961	340	223
*AI4GR	"	140,532	307	196
*AA4FU	"	137,750	285	190
*KR4V	"	96,555	226	157
*K4FTO	"	95,312	283	161
*NZ4O	"	94,215	233	165
*KI4EEY	"	81,989	246	163
*WØQQG/4	"	79,704	256	162
*KM4JA	"	76,692	244	154
*KS4YX	"	68,850	251	150
*W7HJ/4	"	66,504	181	136
*KC4SAW	"	63,756	189	132
*KO4PU	"	63,315	248	135
*N4TL	"	59,160	194	145
*N4AU	"	58,499	183	137
*WA4DYD	"	53,444	201	124
*N4UEZ	"	53,406	203	129
*K4MIL	"	44,160	149	115
*NS2X/4	"	39,211	138	113
*NF4A	"	38,148	137	102
*N4ART	"	38,046	142	102
*KG4CUY	"	36,499	167	113
*K4KAY	"	36,288	143	112
*K5WP/4	"	31,770	130	90
*AB4G	"	29,568	142	96
*NA4X	"	29,280	135	96
*K4DZR	"	28,616	135	98
*KK4BJV	"	27,500	120	100
*W4ELP	"	27,072	125	94
*W4TSP	"	25,872	127	98
*N4LF	"	24,156	121	99
*W4BK	"	23,533	137	101
*KB4VC	"	22,440	112	88
*K4EDI	"	20,608	107	92
*KA4OTB	"	19,046	120	89
*K4SKA	"	17,480	118	92
*AD4TJ	"	15,656	101	76
*KC3EF/4	"	15,312	109	87
*KK4EIR	"	12,168	86	72
*KI4SP	"	11,850	97	75
*K4MTX	"	11,573	98	71
*K8ZZU/4	"	11,169	83	73
*WO4O	"	10,452	84	67
*VE3JDF/W4	"	10,430	91	70
*WB4KLJ	"	10,366	80	71
*WA8OJR/4	"	9,522	77	69
*NO4Y	"	9,028	75	61
*K1ZW/4	"	9,016	68	56
*KT4Q	"	8,673	70	59
*KM4RK	"	8,520	69	60
*KC4WQ	"	8,030	70	55
*KT4CB	"	7,070	80	70
*KJ4IZW	"	6,321	50	43
*WC4J	"	6,026	54	46
*AA1AR/4	"	5,778	59	54
*N4KHI	"	5,508	58	51
*KJ4VTH	"	4,859	46	43
*KE4KY	"	3,528	49	42
*KD6AKC/4	"	3,520	46	44
*KJ4WD	"	3,478	41	37
*N3TG/4	"	2,805	36	33
*KD4ICT	"	2,759	34	31
*N9KY/4	"	2,016	30	28
*KE1F/4	"	1,890	31	30
*AA4RP	"	1,173	23	23
*W4OC	"	1,081	24	23
*WB4OMM	"	980	14	14
*AJ4TG	"	576	18	18
*K4TNO	"	434	14	14
*K4VIG	"	108	9	9
*K8LF/4	"	1	1	1
***NA4W**	**28**	**111,100**	**306**	**202**
			(OP: K4WI)	
*KI4AJX	"	18,275	111	85
*KJ4UQS	"	7,296	74	57
			(OP: K4QD)	
*NI4NN	"	70	5	5
***N3CZ/4**	**21**	**29,304**	**116**	**99**
*AA4U	"	260	10	10
***W4LC**	**14**	**282,201**	**409**	**327**
*K4FT	"	5,194	61	53
*W4QQI	"	1,218	29	29
*W3NC/4	"	1,150	27	25
*NG4L	"	1	1	1
***WA1FCN/4**	**7**	**768,120**	**720**	**370**
*NF4GA	"	120,384	271	171
			(OP: KB4KBS)	
*W3NR/4	"	20,382	114	79
*AK4EM	"	8,200	61	50
***KS4S**	**3.5**	**54,516**	**203**	**118**
*NV4B	"	19,456	112	76
NR5M	**A**	**2,681,580**	**1716**	**660**
WA5ZUP	"	2,531,079	1977	639
K7IA/5	"	1,161,786	1190	454
AC4CA/5	"	997,706	1077	466
K6SXA/5	"	481,635	563	315
W5PF	"	387,075	544	325
K5WAF	"	274,386	406	282
KD5JAA	"	246,482	451	251
N5VU	"	191,815	416	227
K5GZR	"	154,822	333	199
AA5VU	"	132,288	338	192
W5MK	"	128,502	324	177
KE3D/5	"	81,344	249	164
KM5PS	"	23,415	128	105
KF5SA	"	15,936	104	83
W5KI	"	11,868	74	69
N5TY	"	6,630	57	51
N5NA	"	4,452	55	42
N5MOA	**28**	**7,550**	**52**	**50**
W5AP	**21**	**992,970**	**910**	**510**
N5ZM	**7**	**1,707,804**	**986**	**502**
***AD5XD**	**A**	**792,880**	**1072**	**374**
*WM5DX	"	571,356	721	354
*N5IJE	"	532,350	691	338
*N5KWN	"	505,506	823	346
*W3DQN/5	"	396,552	568	312
*W5GWH	"	372,771	581	291
*K5DHY	"	301,835	543	265
*WB5TUF	"	286,972	497	259
*NX5O	"	280,060	484	268
*W5JBO	"	260,205	523	249
*AD5LU	"	210,600	411	270
*NK5G	"	166,195	355	215
*WA9AFM/5	"	114,448	291	184
*KC5FP	"	102,949	296	191
*KK5JY	"	94,860	308	180
*AD5CA	"	94,355	258	167
*N5RN	"	79,868	303	164
*W5EK	"	65,142	206	141
*KE5OG	"	53,360	222	145
*W5PJW	"	49,476	208	133
*NX8G/5	"	49,140	210	135
			(OP: NX8G/5)	
*KB5HPL	"	45,540	155	115
*KY5M	"	44,649	183	123
*KE5RON	"	43,125	209	125
*AC5T	"	36,188	143	109
*K5PO	"	34,452	163	108
*W5APS	"	28,016	130	103
*W5PQ	"	23,490	141	87
*W5JNP	"	21,414	105	83
*KD5YUK	"	20,878	90	73
*AA5JG	"	20,152	108	88
*W5TTY	"	19,092	92	74
*AE5MM	"	14,678	108	82
*K5GY	"	14,430	90	74
*N5RMS	"	14,240	100	80
*K5DD	"	13,896	94	72
*N5AW	"	9,256	55	52
*W5WZ	"	5,640	81	60
*AA5CK	"	5,461	57	43
*AB5G	"	4,173	45	39
*K5HDE	"	3,432	45	39
*WA5BDU	"	2,698	47	38
*KB5AI	"	1,566	36	27
*N4YPT/5	"	1,450	25	25
*NM5M	"	324	14	12
*N5UM	"	156	12	12
***KD5JHE**	**28**	**5,104**	**61**	**44**
***K5OMC**	**7**	**24,864**	**114**	**84**
K6TU	**A**	**1,635,271**	**1407**	**517**
WQ6K	"	1,559,280	1519	534
			(OP: N6IE)	
N6QQ	"	1,509,158	1118	578
WX6V	"	1,076,850	970	450
W6SX	"	656,352	991	344
W6GJB	"	616,308	774	406
N2NS/6	"	535,808	724	322
N6ML	"	499,768	563	358
			(OP: @K6LRG)	
NN6NN	"	421,074	707	314
			(OP: W6XK)	
K6EU	"	394,348	582	311
NC6CC	"	366,915	605	305
K6ST	"	351,288	544	306
K6GT	"	348,688	527	296
K6LRN	"	326,906	542	298
WF6C	"	214,490	481	241
			(OP: N6XI)	
K6NV	"	170,912	467	218
W6SFK	"	144,320	384	205
KD6HQ	"	117,304	387	172
N3PV/6	"	117,195	379	195
K6DGW	"	85,671	328	167
W6OTC	"	76,437	272	171
NZ6E	"	71,400	216	140
W6TK	"	57,915	168	135
K6HGF	"	55,233	242	153
NF6A	"	51,837	165	111
			(OP: K6XX)	
K2RD/6	"	45,689	148	107
WB6JJJ	"	31,164	150	106
WB6BFG	"	23,800	104	85
W7UG/6	"	22,932	133	98
W5DQ/6	"	11,772	59	54
AF6SN	"	11,648	107	64
NQ6N	"	4,000	48	40
N6LN	"	1,215	28	27
AE6OU	"	720	18	16
N3FAW/6	"	210	14	14
W6PK	"	3	1	1
NG6S	**21**	**602,048**	**710**	**409**
			(OP: W4UAT)	
NK6A	"	107,590	331	203
W8KA/6	"	26,103	156	113
KG6YHH	**14**	**22,533**	**142**	**111**
W6WRT	**7**	**746,586**	**770**	**333**
***WN6K**	**A**	**655,713**	**929**	**369**
*W6UX	"	524,286	831	378
*W6FFH	"	279,936	501	288
*KO6LU	"	218,964	520	257
*KI6QDH	"	177,410	415	226
*N6DZR	"	159,278	332	217
*N6VH	"	118,125	305	175
*KE6QR	"	97,344	309	169
*KE6SHL	"	89,650	303	163
*K6LE	"	54,144	203	141
*K3FIV/6	"	47,040	158	120
*K6BIR	"	42,375	199	113
*K6TIG	"	38,533	155	113
*KK6TV	"	35,840	149	112
*AF6SA	"	35,310	136	107
*N6BHX	"	33,480	165	108
*N6BM	"	33,480	153	124
*N6DW	"	24,096	128	96
*KØXB/6	"	23,229	116	87
			(OP: KØXB/6)	
*KM6I	"	13,054	84	61
*KI6X	"	12,798	110	81
*AA6VX	"	12,282	93	69
*WT6K	"	11,242	95	73
*K6SIK	"	5,885	60	55
*NA6G	"	4,900	61	49
*NBØO/6	"	4,488	55	44
*N6FC	"	4,165	64	49
*AG6IP	"	1,508	31	26
*WW8L/6	"	544	16	16
*NQ6E	"	306	11	9
***K6OK**	**28**	**11,780**	**93**	**76**
***W6ONV**	**21**	**59,817**	**197**	**157**
KS7AA	**A**	**3,549,960**	**2312**	**692**
			(OP: WK6I)	
KZ7X	"	2,595,216	2061	624
			(OP: K6LL)	
KK7PR	"	1,460,490	1309	534
K7QQ	"	1,435,304	1348	481
W6AEA/7	"	937,359	1081	447
NG7Z	"	826,804	1143	437
K7AR	"	822,424	781	446
WO7V	"	699,744	1081	394
W7WW	"	678,546	848	447
KF7PG	"	645,258	784	366
W7PP	"	453,440	628	320
KY7M	"	447,279	660	361
WU6W/7	"	352,536	679	296
W7LD	"	303,325	681	275
KV7DX	"	272,816	611	272
			(OP: AA7V)	
W7VXS	"	254,856	594	287
KD7MSC	"	215,020	550	260
KS7S	"	192,114	402	234
K7HP	"	186,369	382	219
KO7X	"	183,183	466	231
K7MKL	"	168,103	308	193
NO7T	"	151,424	324	224
K7EIQ	"	130,611	301	197
K7VC	"	108,076	267	164
K7LFY	"	95,592	294	168
W7LKG	"	92,020	263	172
W7PU	"	91,020	352	205
KT7G	"	79,560	209	156
KB7N	"	78,648	278	174
W6NF/7	"	70,905	177	145
N7RO	"	39,729	173	123
N7MQ	"	33,720	130	120
NQ6C/7	"	31,928	127	104
W7YES	"	31,270	128	106
K6UFO/7	"	22,260	94	84
			(OP: @NN7SS)	
KT7E	"	8,122	88	62
N7ZA	"	5,670	45	45
K7LV	"	5,628	46	42
KI7Y	"	5,250	52	42
KK7CG	"	960	27	24
AA7FY	"	850	28	25
W7WHY	"	722	20	19
KD7JG	"	546	15	14
K7OX	**28**	**126,902**	**419**	**214**
K7XC	**21**	**197,955**	**394**	**265**
K7WP	"	8,662	74	61
W7ZRC	"	518	14	14
K7AWB	**14**	**827,938**	**903**	**503**
NC7J	"	531,576	834	414
			(OP: W7CT)	
WG7X	"	141,840	427	240
K7ZO	**7**	**24,360**	**116**	**84**
W6RLL/7	**3.5**	**37,572**	**158**	**101**
***AD7JP**	**A**	**1,835,437**	**1414**	**577**
			(OP: K2PO)	
*WS7V	"	421,120	645	329
*K7VIT	"	322,848	594	288
*K7TQ	"	318,512	560	272
*KW7N	"	316,394	605	283
*WT6P/7	"	295,372	543	274
*W7WEC	"	281,728	478	284
*WB3JFS/7	"	281,165	578	265
*K7GS	"	252,566	494	293
*N7VEA	"	245,024	495	247
*WAØWWW/7	"	183,840	371	240
*K7JE	"	178,000	367	250
*N7ESU	"	172,380	417	221
*KX7L	"	150,489	369	207
*AD7MQ	"	115,639	281	197
*KE7AUB	"	104,155	297	185
*WG7Y	"	78,120	328	180
*WA7SHP	"	59,160	200	136
*W7SUR	"	48,279	246	133
*KF7GNI	"	46,228	198	127

*K6UM/7	"	44,286	168	121
*WA7YAZ	"	40,005	160	127
*KD7PCE	"	38,227	155	127
*W7TSQ	"	36,449	188	127
*K7TM	"	35,280	174	120
*K7AKP	"	33,345	184	117
*W7YAQ	"	32,340	126	110
*K6WSC/7	"	30,690	129	110
*K7VK	"	29,640	130	104
*KX7YT	"	25,038	140	107
*K7HPT	"	22,848	150	102
*WA1PMA/7	"	21,408	109	96
*K7ARJ	"	20,230	104	85
*WB7CYO	"	17,856	122	93
*N6PZ/7	"	17,765	121	85
*WA7BME	"	14,697	102	69
*W4JLS/7	"	13,968	110	72
*N1JM/7	"	6,210	57	45
			(OP: N1JM/7)	
*K7FLI	"	5,760	57	48
*K6IMZ/7	"	4,876	56	46
*KV4K/7	"	3,280	48	41
*AD7OG	"	3,185	53	49
*AC7GP	"	2,982	45	42
*K7BBR	"	2,847	40	39
*WS7I	"	2,508	26	22
*WV7P	"	2,156	34	28
*AC6N/7	"	1,820	28	26
*KX7DX	"	1,728	24	24
*K7CCC	"	968	23	22
*AF7S	"	665	19	19
*W7MEW	"	608	16	16
*K9WZB/7	"	220	12	10
***W7OM**	**28**	**40,334**	**199**	**134**
*KC7V	"	2,079	36	33
*K7ULS	"	60	5	4
***W1ZD/7**	**14**	**315,595**	**560**	**355**
*WA7LNW	"	84,294	342	189
KU1T/8	**A**	**3,229,824**	**1729**	**647**
N8BJQ	"	2,268,125	1360	625
W8JWN	"	1,183,888	1107	488
K8UT	"	833,700	797	397
AA8R	"	759,116	822	404
KE8M	"	668,043	665	373
K3GP/8	"	615,524	657	364
WV8BD	"	406,580	516	290
			(OP: W8AKS)	
ND8L	"	327,957	437	291
K8DV	"	218,300	418	236
KK8U	"	204,300	350	225
			(OP: K8MM)	
K9NW/8	"	197,340	322	230
K8BZ	"	99,372	246	182
N8AGU	"	81,224	176	143
WA8RPK	"	72,160	237	164
AE8U	"	58,280	192	124
K8CR	"	36,630	168	110
W8TA	"	22,932	102	91
K8AO	"	18,445	94	85
AJ8B	"	8,742	51	47
N8DP	"	2,821	33	31
KB8ZYE	"	1,239	24	21
K8ESQ	"	646	19	19
***WB8TLI**	**A**	**261,214**	**367**	**262**
*KK8MM	"	259,435	439	265
*KB8UHN	"	237,744	393	254
*WS6K/8	"	228,420	444	235
*KJ8O	"	132,104	268	196
*W8HY	"	116,375	301	175
*K8SIA	"	104,894	255	179
*AC8DU	"	89,512	269	167
*K8TJM	"	88,183	243	163
*KC8RPV	"	87,450	250	159
*WD8KNC	"	87,285	257	165
*KN8DMK	"	72,380	222	154
*N8GU	"	68,310	216	138
*N8BB	"	50,568	193	129
*N8VV	"	48,444	191	132
*K8QH	"	48,216	169	123
*KE8UM	"	48,076	181	119
*K3JT/8	"	46,364	155	134
*WB8IEA	"	37,343	161	107
*N2OPW/8	"	33,800	136	100
*W8IDM	"	25,245	147	99
*WW8OH	"	20,580	97	84
*WB8MIW	"	17,304	105	84
*W8WTS	"	15,476	101	73
*N8WS	"	15,385	103	85
*K8GT	"	14,413	79	71
*AA8EN	"	13,528	99	76
*K8DXR	"	10,360	95	70
*KD8D	"	7,923	62	57
*K8RJW	"	7,018	70	58
*AF8C	"	6,496	72	58
*NF8M	"	2,592	37	32
*W8HMK	"	391	21	17
***KD8RKP**	**28**	**36,698**	**152**	**118**
*WB8JUI	"	7,370	71	55
***AC8JW**	**21**	**98,980**	**241**	**196**
***WG8Y**	**14**	**27,346**	**122**	**113**
***K8SM**	**7**	**407,824**	**458**	**284**
*K8AJS	"	194,616	383	204
***KC8IMB**	**3.5**	**31,872**	**153**	**96**
AI9T	**A**	**3,179,754**	**1812**	**723**
N2BJ/9	"	2,062,620	1299	630
W9IU	"	1,963,484	1277	548
K9QC	"	1,172,841	1010	501
KE9I	"	1,135,385	1006	485
K9DJ	"	738,924	816	417
AJ9C	"	483,564	595	354
WM9Q	"	466,180	593	326
KT9L	"	322,280	506	280
WB9TFH	"	313,536	498	276
N9AKR	"	290,460	452	309
K9BJM	"	166,428	338	201
N9FN	"	163,200	284	204
WA9IVH	"	103,952	281	178
N9OK	"	97,893	272	149
W9PDS	"	67,098	209	159
WB9B	"	59,780	168	122
NA9A	"	25,454	100	89
W9II	"	7,535	58	55
N7GVV/9	"	7,208	56	53
NR9J	"	325	13	13
W9AKS	**7**	**55,692**	**170**	**119**
***K9NR**	**A**	**2,055,760**	**1319**	**560**
*N9CK	"	510,230	636	370
*KD9MS	"	309,474	492	297
*N9YKE	"	264,940	437	260
*KA9MOM	"	221,358	429	237
*W9VQ	"	209,560	344	260
*W9OA/9	"	173,664	283	216
			(OP: W9OA/9)	
*K9JU	"	145,950	286	210
*N9TF	"	130,845	261	195
*WR9Y	"	120,484	305	182
*N9LYE	"	103,596	278	178
*N9LAH	"	80,640	228	160
*W9LHG	"	79,210	239	178
*KB9OWD	"	76,880	246	155
*K9PY	"	71,484	189	148
*KB9DVC	"	68,080	208	148
*N9LJX	"	61,125	161	125
*N5IE/9	"	55,572	208	132
*WB9WOZ	"	45,312	182	118
*WB0PTO/9	"	36,580	148	118
*KC9RNK	"	35,420	160	110
*N9BT	"	34,521	157	111
*WD9HBA	"	27,248	132	104
*K9PLX	"	21,755	134	95
*ND9Z	"	15,620	96	71
*N9SB	"	12,994	81	73
*AA9UF	"	8,600	51	50
*KU8T/9	"	8,235	74	61
*W9OO	"	6,372	69	59
*NO9A	"	2,310	37	33
*KB9YGD	"	2,250	39	30
*NV9X	"	2,211	33	33
*NØATQ/9	"	2,178	36	33
*KY9J	"	1,860	33	30
***W9ILY**	**21**	**298,185**	**409**	**309**
*KB9S	"	22,790	131	106
***N9UY**	**14**	**1,952**	**37**	**32**
ABØRX	**A**	**2,354,669**	**1789**	**599**
KØKX	"	1,213,104	838	508
KØALT	"	1,065,764	1077	476
KV1E/Ø	"	768,600	887	427
ACØC	"	725,076	968	396
WØEM	"	603,470	1010	370
KSØAA	"	578,360	733	380
KØCN	"	472,890	658	330
NEØU	"	397,290	549	323
K7SCX/Ø	"	318,060	558	270
AAØAW	"	308,994	529	294
KØRU	"	272,406	496	249
NØAT	"	272,082	495	274
KØTG	"	245,448	523	252
KØJPL	"	225,170	392	230
KØWA	"	200,772	446	234
NØGZ	"	194,215	367	217
NØBK	"	161,200	302	208
KØVG	"	156,699	371	207
WBØN	"	145,416	250	249
WØGM	"	124,600	294	178
WØBH	"	120,365	350	181
WØHW	"	112,658	282	182
W4RK/Ø	"	105,492	297	177
WAØJH	"	101,460	328	190
K5ZG/Ø	"	84,315	291	165
WMØL	"	61,172	237	164
KU1CW/BY4DX	"	57,663	159	129
KDØS	"	55,375	205	125
KØJJR	"	50,697	182	129
KV6O/Ø	"	49,407	216	129
WBØKGN	"	47,580	157	122
WØTY	"	34,561	128	107
WØHBH	"	31,003	114	103
K6XT/Ø	"	23,112	132	108
KØRC	"	21,360	106	89
WAØMHJ	"	20,680	103	88
ACØB	"	19,437	109	93
K4IU/Ø	"	15,309	103	81
KA1HC/Ø	"	8,320	74	64
NIØB	"	5,002	42	41
KØYR	"	4,704	49	42
KØAP	"	544	19	17
KØJE	"	490	16	14
KØPK	**7**	**428,040**	**536**	**290**
***NØXR**	**A**	**2,136,111**	**1708**	**571**
			(OP: @NØNI)	
*NTØF	"	1,176,144	1169	458
*WBØSOK	"	318,864	463	292
*WGØM	"	311,310	566	270
*KØCMA	"	284,250	543	250
*AD1C/Ø	"	251,328	466	272
*KØVM	"	224,158	445	253
*KSØM	"	215,339	381	239
*WØOVM	"	213,063	426	237
*KIØJ	"	166,057	381	211
*KD4POJ/Ø	"	145,040	489	196
*WØCO	"	144,364	328	187
*WTØO	"	133,455	361	217
			(OP: KØTI)	
*WBØQLU	"	115,335	325	165
*NØARU	"	105,020	301	178
*WBØPYF	"	104,562	271	157
*WØRAA	"	102,410	410	190
*NØOK	"	98,943	272	177
*WØSM	"	88,922	326	173
*KFØUR	"	86,112	404	184
*WAØLJM	"	72,960	269	160
*WBØULX	"	64,779	203	143
*NR9A/Ø	"	61,608	188	136
*KAØEIC	"	60,656	225	136
*KSØT	"	58,674	234	154
*KCØJRW	"	52,400	227	131
*ABØYM	"	46,494	205	126
*K1ING/Ø	"	42,768	197	132
*NØIU	"	37,403	137	113
*WCØV	"	35,400	174	118
*WØERP	"	35,369	131	113
*KØAD	"	35,256	206	113
*KDØCVO	"	32,768	182	128
*NØHJZ	"	32,249	177	119
*KØØZ	"	29,886	143	102
*WAØGUD	"	28,968	148	102
*NØAJN	"	27,225	153	99
*NØUX	"	20,295	129	99
*KØMPH	"	20,060	105	85
*WBØWIV	"	18,796	100	74
*KØLAF	"	15,038	106	73
*KQØJ	"	14,490	77	70
*KCØDEB	"	13,532	75	68
*KBØNHW	"	12,045	107	73
*KJØP	"	11,385	81	69
*WØDC	"	8,520	86	60
*WØTUP	"	7,021	68	59
*ACØE	"	6,322	66	58
*NØTK	"	6,006	50	42
*KØFBV	"	5,763	71	51
*KC5ZFZ/Ø	"	3,827	48	43
*WØDYD	"	3,784	53	44
*WØGAF	"	3,744	52	39
*KIØHA	"	3,686	41	38
*KØFYI	"	3,290	35	35
*NØQP	"	2,730	47	39
*ADØDX	"	2,627	46	37
*NØAX	"	1,988	31	28
*KØURN	"	1,643	41	31
***WØSHL**	**28**	**13,984**	**87**	**76**
***WNØL**	**21**	**298,851**	**458**	**321**
*KFØIQ	"	1,152	25	24
*N9DRB/Ø	"	1	1	1
***WØRX**	**14**	**12**	**2**	**2**
***KEØL**	**7**	**29,808**	**130**	**92**
Alaska				
KL7RA	**A**	**1,815,249**	**1393**	**543**
AL9A	"	1,080,200	1012	440
KL5E	"	219,960	394	235
WL7E	"	33,264	130	88
KL2R	**21**	**432,729**	**658**	**297**
			(OP: N1TX)	
***KL8DX**	**A**	**614,570**	**728**	**370**
*AL1G	"	137,922	369	181
*KL7AC	"	32,825	160	101
***WL7BDO**	**21**	**47,117**	**164**	**127**
Canada				
VE9MY	**A**	**52,780**	**127**	**116**
VY2MP	"	25,830	104	90
VY2LI	**21**	**711,552**	**703**	**408**
VY2SS	**7**	**498,688**	**438**	**256**
***VE1ZD**	**A**	**89,838**	**221**	**161**
*VO1OR	"	43,160	145	104
*VE9NC	"	20,400	102	80
***VE1OP**	**21**	**102,680**	**211**	**170**
VA2AM	**A**	**3,402,056**	**1557**	**632**
VE2FXL	"	1,801,086	1087	518
VE2FK	"	1,582,700	987	475
VE2SG	"	170,748	318	204
VE2EZD	"	76,112	201	134
***VA2UP**	**A**	**5,032,339**	**1988**	**743**
*VE2AXO	"	828,704	740	376
*VE2EBK	"	603,480	618	321
*VA2WA	"	276,816	366	237
			(OP: VA2WDQ)	
*VE2QV	"	47,652	157	114
*VE2KY	"	23,352	106	84
*VE2KOT	"	15,096	90	68
*VE2DJC	"	4,485	42	39
***VC2E**	**3.5**	**447,876**	**483**	**234**
			(OP: VE2SB)	
VA3DX	**A**	**3,723,709**	**1669**	**673**
VE3EK	"	1,902,852	1176	567
VE3RZ	"	1,145,016	792	456
VE3MV	"	371,448	514	252
VA3PC	"	135,072	234	201
VA3DZ	"	5,699	46	41
VE3CX	"	4,992	46	39
VA3XH	"	2,754	35	34
VE3TL	**14**	**181,302**	**300**	**246**
***VE3KI**	**A**	**1,429,823**	**1016**	**439**
*VE3FH	"	738,704	704	337
*VE3XAT	"	641,190	635	330
*VE3AJ	"	579,942	594	319
*VE3JI	"	556,742	540	331
*VE3DZ	"	368,072	441	278
*VA3MJR	"	240,118	375	211
*VE3RCN	"	152,256	287	183
*VE3CGR	"	134,608	274	179
*VE3FWF	"	57,834	183	119
*VE3FJ	"	56,496	206	132
*VA3WU	"	18,722	84	74
*VE3WA	"	11,343	60	57
*VA3FN	"	3,680	44	40
***VE3IAE**	**14**	**266,760**	**401**	**285**
***VE3YF**	**7**	**80,640**	**135**	**120**
***VE3MGY**	**3.5**	**33,372**	**110**	**81**
VE4EAR	**A**	**2,519,397**	**1383**	**621**
VE5MX	**A**	**1,154,131**	**975**	**439**
VA5LF	"	391,389	585	283
***VE5UO**	**A**	**59,754**	**210**	**138**
VE6CMV	**A**	**23,250**	**124**	**93**
VE6FN	"	11,252	72	58
***VE6SQ**	**A**	**464,400**	**642**	**270**
*VE6AMI	"	10,890	71	66
*VE6AX	"	9,062	58	46
***VE6BMX**	**28**	**183,248**	**441**	**208**
VE7CC	**A**	**4,932,015**	**2248**	**781**
VA7KO	"	1,302,094	1165	458
VA7GEM	"	342,250	579	250
VE7SQ	"	162,588	315	204
VE7AX	"	144,142	297	194
VE7CF	"	121,899	322	179
VA7RN	"	111,655	244	163
VE7HBS	"	12,870	103	65
***VA7ST**	**A**	**858,030**	**818**	**370**
*VE7BSM	"	284,664	529	232
*VE7LGP	"	22,185	104	85
*VE7FCO	"	8,352	65	58
***VE7BC**	**28**	**7,685**	**70**	**53**
N6QEK/VY1	**A**	**93,318**	**285**	**151**
			(OP: N6QEK)	
Cuba				
***CO2IZ**	**A**	**384,256**	**447**	**304**
*CO2GL	"	366,647	553	269
*CO2WL	"	266,770	355	259
*CO2MS	"	244,860	410	220
*CO2OQ	"	105,672	268	148
*CO6HZ	"	66,254	211	157
*CO2JW	"	37,810	124	95
*CO2ZK	"	6,885	49	45
***CO6EC**	**28**	**588**	**17**	**14**
***CO2CW**	**21**	**301,600**	**491**	**290**
*CM3RPN	"	229,750	434	250
*CO6LP	"	30,336	156	96
***CO2AJ**	**14**	**61,950**	**207**	**150**
*CO8TW	"	48,000	195	120
***CO2JD**	**7**	**419,136**	**448**	**236**
*CO2XPR	"	8,448	57	44
Dominican Republic				
HI8PJP	**14**	**107,334**	**287**	**178**
***HI8PLE/7**	**A**	**1,795,311**	**1242**	**531**
			(OP: HI8PLE/7)	
Grenada				
***J39BS**	**28**	**257,217**	**493**	**249**
Guadeloupe				
FG5LA	**21**	**330,300**	**465**	**300**
***FG1PP**	**A**	**3**	**1**	**1**
***FG4NO**	**28**	**348,721**	**534**	**281**
Guatemala				
TG9ADQ	**14**	**14,981**	**108**	**71**
***TG9AJR**	**28**	**55,806**	**193**	**131**
Jamaica				
6Y1X	**A**	**29,204**	**112**	**98**
Martinique				
FM/F6AUS	**A**	**1,575,842**	**1108**	**499**
Mexico				
XE1MM	**A**	**714,951**	**808**	**339**
XE1IB	"	134,550	286	195
XE1V	"	29,568	131	88
XE1EE	**21**	**355,880**	**507**	**310**
XE1GRR	**3.5**	**2,808**	**27**	**27**
***XE2FGC**	**A**	**728,295**	**828**	**345**
*XE1CT	"	125,125	287	175
*XE2AU	"	101,108	254	157
*XE2B	"	90,300	230	150
*XE1SVT	"	15,438	82	62
*XE1HJL	"	14,912	78	64
*XE1GZU	"	3,420	41	38
***XE1ZTW**	**28**	**5,670**	**53**	**45**
***XE2X**	**21**	**25,080**	**134**	**88**
***XE3N**	**7**	**92,004**	**177**	**123**
***XE1L**	**3.5**	**27,792**	**98**	**72**
Puerto Rico				
***KP4JFR**	**A**	**297,600**	**364**	**240**
*WP3GW	"	85,848	179	147
*NP3IR	"	13,090	61	55
***NP3YL**	**28**	**36,960**	**143**	**112**
U.S. Virgin Islands				
***KP2DX**	**A**	**144,536**	**330**	**178**
			(OP: KP2BH)	

AFRICA

Canary Islands				
EA8CNB	**21**	**475,616**	**484**	**334**
EA8ZS	**7**	**224,770**	**235**	**169**
***EC8CQ**	**A**	**1,190,748**	**915**	**442**
*EA8OM	"	709,962	562	341
			(OP: DJ1OJ)	
*EA8AQV	"	421,011	418	279
*EA8BQM	"	186,516	320	198
*EA8CYQ	"	32,825	116	101
***EA8MT**	**28**	**1,271,430**	**937**	**459**
Madeira Islands				
CT3HF	**A**	**124,700**	**235**	**172**
CT3DZ	**28**	**25,347**	**130**	**71**
CT3EN	**14**	**500,202**	**503**	**354**
***CT3KY**	**A**	**78**	**6**	**6**
***CT3BD**	**21**	**137,084**	**283**	**172**
Mauritius				
3B8/SP2FUD	**A**	**432**	**12**	**12**
			(OP: SP2FUD)	
Morocco				
***5C5W**	**A**	**5,518,968**	**1916**	**728**
			(OP: CN8KD)	
*5C2P	"	736,205	685	365
Senegal				
6V7S	**A**	**3,629,730**	**1732**	**681**
			(OP: RK4FF)	
South Africa				
ZS2EZ	**A**	**889,410**	**747**	**345**
ZS1LS	"	543,895	550	319
***ZS1JY**	**A**	**70,112**	**152**	**112**
Sudan				
ST2AR	**A**	**4,219,919**	**1876**	**671**
Tanzania				
5H3EE	**7**	**19,040**	**58**	**56**
Tunisia				
***3V8SS**	**14**	**75,320**	**182**	**140**
			(OP: KF5EYY)	

ASIA

Armenia				
***EK3GM**	**A**	**18,386**	**66**	**58**
Asiatic Russia				
R9DX	**A**	**7,508,149**	**2628**	**773**
RG9A	"	7,196,016	2554	761
RA9SKL	"	1,809,868	995	446
UA9TF	"	1,138,228	873	413
R9SA	"	833,112	647	378
RA9AAA	"	213,044	311	221
RM9T	"	212,859	291	201
RW9MZ	"	154,020	270	204
RN9CM	"	45,468	132	108
R9CD	"	42,600	122	100
RY9C	**28**	**641,512**	**703**	**356**
UA9UR	"	94,860	219	155
RK8I	**21**	**620,080**	**657**	**368**
UA9OG	"	466,704	561	336
RA9UN	"	220,575	353	255
RK9AX	**7**	**78,840**	**141**	**108**
***RT9S**	**A**	**2,201,248**	**1229**	**496**
*UA9AL	"	1,321,074	864	414
*UA9AFS	"	1,000,008	788	408
*RU9AZ	"	485,406	504	303
*UA9UDX	"	391,016	476	296
*RA9CUU	"	315,268	403	269
*RK9AK	"	254,380	330	230
*RK9UE	"	224,037	363	219
*R9UG	"	214,674	329	222
*RK9AN	"	201,144	299	204
*RA9DP	"	101,774	219	151
*RX9CNN	"	62,244	155	126
*UA9AX	"	28,620	102	90
*RG8U	"	17,936	81	76
*UA9OV	"	9,774	59	54
***RA9RR**	**28**	**208,373**	**352**	**209**
*RW9C	"	60,515	164	133
***RA9SGV**	**21**	**151,844**	**291**	**203**
*UF8T	"	130,217	256	197
***RV9CP**	**14**	**733,080**	**656**	**410**
*UA9UKL	"	96,624	211	176
*RZ9UF	"	34,736	151	104
*RA9AFZ	"	28,684	111	101
***RK9UM**	**3.5**	**35,392**	**93**	**79**
UAØCA	**A**	**3,581,127**	**1581**	**671**
UAØAGI	"	2,257,760	1248	548
UCØA	"	1,744,980	1119	508
RØFA	"	1,452,575	1041	485
UAØYAY	"	1,077,524	823	406
UAØSR	"	982,114	801	413
RWØAQ	"	960,024	897	408
RAØACM	"	606,060	655	364
RXØAE	"	482,816	548	328
RØQA	"	386,397	491	297
RTØQ	"	360,815	493	305
RUØLL	"	284,756	367	257
UAØAKY	"	256,880	351	247
RWØBG	"	161,247	227	177
RXØAK	"	115,206	249	182
UAØCW	"	1,386	23	21
UAØBA	"	3	1	1
UAØSW	**28**	**6,936**	**66**	**51**
RWØUU	**21**	**210,166**	**398**	**233**
UAØQBR	**14**	**27,072**	**108**	**96**
RXØAT	**3.5**	**84,006**	**132**	**117**
***RWØSR**	**A**	**611,712**	**614**	**354**
*UAØCNX	"	538,335	630	315
*UAØIT	"	109,953	243	171
*RXØSC	"	98,210	213	161
*RDØCD	"	68,040	203	140
*RAØWHE	"	63,000	170	140
*RAØANO	"	2	1	1
***RWØAJ**	**21**	**9,405**	**67**	**57**
***RXØSA**	**14**	**53,793**	**173**	**139**
***RAØAY**	**7**	**21,824**	**68**	**62**
Asiatic Turkey				
TA7AO	**A**	**427,479**	**499**	**291**
***TA7I**	**A**	**1,456,730**	**891**	**418**
***TA1FA/2**	**28**	**570**	**19**	**15**
Azerbaijan				
***4K7Z**	**A**	**88,939**	**199**	**151**
			(OP: 4K6DI)	
China				
BA7IO	**A**	**1,494,384**	**1145**	**489**
BD4QH	"	308,256	513	247
BD1BYV	"	124,440	277	183
BA4EO	"	6,346	50	38
BD7LMD	**21**	**313,302**	**455**	**282**
***BH7PFH**	**A**	**173,271**	**324**	**223**
*BA1PK	"	156,060	261	180
*BD3CB	"	143,399	340	193
*BA5HAM	"	102,145	251	155
*BD7IS	"	91,392	208	168
*BD4UJ	"	35,420	137	115
*BD4UN	"	28,350	104	90
*BA4SD	"	27,324	115	92
*BH4SGR	"	24,464	115	88
*BG6CJR	"	19,360	88	80
*BD2IAQ	"	16,302	90	66
*BA5AB	"	13,992	74	66
*BH1LHS	"	12,276	91	62
*BD1LEN	"	8,084	55	43
*BD2UYY	"	5,334	53	42
*BD6OT	"	688	21	16
*BI7JMD	"	420	16	15
*BD6NB	"	310	10	10
***BG8GAM**	**28**	**384**	**12**	**12**
***BD3RQ**	**21**	**170,277**	**343**	**211**
*BH4SHG	"	120,714	294	177
*BD7OXR	"	55,044	198	132
*BA4MY	"	31,724	133	103
*BD6JPV	"	29,890	137	98
*BD6IC	"	29,596	143	98
*BG9ABA	"	8,265	66	57
*BG6KYQ	"	3,960	50	40
***BD6PA**	**14**	**68,524**	**201**	**148**
*BG4QNE	"	13,440	75	70
*BD4QA	"	8,892	88	52
***BD6AHU**	**7**	**11,792**	**61**	**44**
Cyprus				
5B4AIF	**A**	**2,893,968**	**1249**	**567**
***1B1AB**	**A**	**30,780**	**119**	**95**
Georgia				
***4L9QQ**	**3.5**	**54,498**	**104**	**93**
Hong Kong				
VR2XLN	**28**	**107,047**	**275**	**167**
***VR2VIY**	**A**	**5,461**	**53**	**43**
***VR2XMT**	**21**	**882**	**24**	**18**
India				
***VU2NKS**	**A**	**102,237**	**225**	**159**
*VU2RMS	"	73,682	176	133
*VU2PTT	"	45,864	144	117
*VU2ABS	"	2,727	31	27
Israel				
4Z5KU	**A**	**564,436**	**479**	**292**
***4Z5MY**	**A**	**68,666**	**172**	**139**
Japan				
JM1XCW	**A**	**2,402,476**	**1235**	**596**
JA1OVD	"	1,249,424	851	458
JE1LFX	"	1,183,428	853	463
JF1OPL	"	501,696	514	312
JA1AYO	"	386,568	464	273
JG1IEF	"	382,044	429	316
JO1WKO	"	257,465	304	221
JA1IZZ	"	217,782	330	222
JA1PVX	"	179,118	315	214
JA1TMG	"	160,215	275	165
JO1VRV	"	152,523	289	189
JF1RWZ	"	148,580	263	190
JN1RQV	"	123,580	230	185
JA1WPX	"	93,744	198	168
JP1TRJ	"	82,390	188	154
JA1QZC	"	65,330	172	139
JE1HRC	"	46,920	154	120
JA1XS	"	40,948	133	116

JH1EEB	"	39,312	132	112
JH1EIG	"	13,950	66	62
JA1WSK	"	9,576	59	56
JA1XUY	"	9,256	64	52
JA1RZD	"	6,880	49	43
JE1CKA	"	6,250	59	50
7L4IOU	**28**	**39,444**	**156**	**114**
JI1LET	"	15,549	87	71
JO1COV	**21**	**629,031**	**598**	**381**
JS1OYN	"	241,171	356	263
JL1SAM	"	79,476	190	148
JA1BPA	"	20,520	102	72
JR1BAS	**14**	**125,600**	**234**	**200**
JH1RFM	"	70,924	178	149
JA1SJV	**7**	**7,676**	**40**	**38**
***JA1BJI**	**A**	**1,116,098**	**868**	**437**
*JI1RAK	"	872,256	727	413
*JP1QDH	"	665,260	630	370
*7K4QOK	"	483,520	544	320
*7N2UQC	"	350,460	455	270
*JE1SGH	"	246,240	382	240
*JA1HFY	"	199,056	355	208
*JH1DGQ	"	181,260	299	212
*JA1DDZ	"	165,360	301	208
*JA1BWA	"	153,797	299	173
*JA1MZM	"	137,085	267	195
*JA1IZ	"	131,788	241	188
*JH1FNU	"	122,655	251	185
*JA1XRH	"	121,792	238	173
*JA3MIO/1	"	99,430	213	163
*JG1WNO	"	94,642	193	158
*JA1HOM	"	80,181	195	151
*7M1MCY	"	66,660	179	132
*7K4VPV	"	64,719	171	141
*JA1EMQ	"	55,428	153	124
*JI1SAI	"	50,022	148	126
*JA1AZR	"	42,984	141	108
*JN1MSO	"	42,718	146	106
*JJ1KZZ	"	35,048	122	104
*JA1IE	"	34,476	139	102
*JI1LAT	"	29,694	114	98
*7K1PYG	"	26,709	122	87
*JH1RRP	"	20,640	92	80
*JF1VRU	"	19,039	104	79
*JA1BFN	"	11,592	61	56
*JH1QQN	"	10,759	64	53
*JA1CPZ	"	9,576	59	57
*JP1HUJ	"	8,235	52	45
*JI1EWK	"	7,599	57	51
*JF1VNR	"	6,815	59	47
*7M4OOS	"	5,850	54	45
*JP1GVC	"	4,914	48	42
*JQ1DTT	"	4,840	49	44
*JG1RZH	"	4,092	33	31
*JA1PCM	"	2,175	30	29
*JK1NSR	"	1,302	22	21
*JA1OHP	"	850	17	17
*7K3OZQ	"	800	17	16
*JA1PTO	"	728	17	14
*JA1VRU	"	616	15	14
*7N4QCQ	"	168	8	8
*JI1DSU	"	144	9	8
***JL1BYZ**	**21**	**110,340**	**230**	**180**
*JI1ALP	"	29,280	116	96
*7L3DGP	"	27,448	110	94
*JG1ALA	"	13,724	78	73
*JF1PYJ	"	11,773	69	61
*JG1APX	"	5,848	53	43
*JA1UVO	"	3,135	37	33
*JE1GZB	"	752	17	16
***JF1TEU**	**14**	**14,040**	**84**	**72**
*JS1IFK	"	6,419	53	49
*JK1LUY	"	250	10	10
***JH8SEG/1**	**7**	**1,404**	**19**	**18**
JA2FSM	**A**	**273,535**	**426**	**241**
JA2VHO	"	193,487	319	211
JA2XYO	"	190,299	316	229
JA2HOL	"	119,660	231	193
JR2PMT	"	95,325	206	155
JF2OZH	"	14,555	76	71
JF2FIU	"	3,636	39	36
JJ2IBN	"	1,083	19	19
JA2AYH	"	816	17	17
JA2CPD	"	10	2	2
JH2FXK	**21**	**5,699**	**49**	**41**
JF2IWL	**3.5**	**2,576**	**47**	**28**
***JE2UFF**	**A**	**235,172**	**345**	**227**
*JA2HNP	"	134,524	232	169
*JA2QVP	"	113,399	241	169
*JA2AXB	"	81,375	196	155
*JA2GHP	"	57,728	169	128
*JR2MIN	"	44,694	142	117
*JA2CUS	"	32,655	124	105
*JE2DOD	"	18,542	96	73
*JA2VHG	"	16,350	79	75
*JE2TLZ	"	12,328	67	67
*JG2KFI	"	8,855	64	55
*JK2KNR	"	8,428	62	49
*JA2HBK	"	6,987	52	51
*JR2FWQ	"	3,196	37	34
*JA2IXS	"	2,604	32	31
*JN2TTQ/2	"	2,349	37	29
***JH2MYN**	**28**	**10,143**	**74**	**63**
***JP2MRD**	**21**	**38,627**	**139**	**107**
*JG2NLN	"	11,529	68	61
*JE2BOM	"	3,774	39	37
*JR2AAN/2	"	310	11	10
***JA2RPZ**	**14**	**40**	**4**	**4**
***JA2HYD**	**7**	**21,472**	**72**	**61**
*JR2PAU	"	10,800	47	45
*JJ2DWL	"	6,256	42	34
JS3CTQ	**A**	**904,736**	**760**	**392**
JA3QOS	"	242,750	329	250
JN3SAC	"	148,213	262	169
JA3AVO	"	15,912	77	72
JO3QVT	"	798	19	19
***JA3IKG**	**A**	**256,184**	**374**	**248**
*JH3CUL	"	251,694	358	237
*JF3NKA	"	185,736	294	218
*JO3PSJ	"	152,168	299	184
*JA3JM	"	125,847	263	177
*JH3BYX	"	87,363	198	153
*JR3BOT	"	85,675	204	149
*JA3PYC	"	56,260	150	116
*JE3UHV	"	44,928	151	108
*JI3MJK	"	33,165	104	99
*JA3HBF	"	30,096	102	88
*JA3JND	"	13,065	82	65
*JH3LBD	"	13,065	76	65
*JA3KKE	"	7,956	53	51
*JK3GWT	"	5,117	49	43
*JL3WSL	"	1,863	27	23
*JG3SVP	"	920	20	20
*JA3IDQ	"	688	16	16
*JL3DGI	"	297	11	11
***JR3RIY**	**21**	**376,852**	**444**	**313**
*JG3FEA	"	199,288	307	232
*JA3MIB	"	112,545	236	183
*JI3FLA	"	46,208	157	128
*JP3BHC	"	27,000	122	90
*JA3AHY	"	15,836	83	74
*JA3IVU	"	4,560	45	40
JH4UTP	**A**	**1,450,246**	**977**	**497**
JO4CFV	"	239,232	396	224
JH4BTI	"	96,007	221	163
JH4RUF	"	6,080	43	40
JO4CTB	**21**	**78,210**	**201**	**158**
JM4WUZ	**14**	**2,580**	**30**	**30**
***JR4VEV**	**A**	**322,834**	**436**	**254**
*JE4MHL	"	31,584	123	94
***JH4UYB**	**28**	**103,418**	**250**	**166**
*JJ4CDW	"	8,788	68	52
***JN4UUS**	**21**	**120,015**	**229**	**189**
*JI4JGD	"	6,576	51	48
***JR4GPA**	**14**	**37,468**	**128**	**116**
JA5BZL	**A**	**8,640**	**59**	**54**
***JJ5HUD**	**A**	**23,305**	**114**	**79**
*JA5RVN	"	18,634	84	77
*JA5NSR	"	8,370	60	54
***JG5DHX**	**21**	**99,180**	**217**	**174**
*JA5FMT	"	77,420	186	158
JA6GCE	**A**	**1,876,004**	**1145**	**559**
JA6BZI	"	564,138	520	337
***JA6DJ**	**A**	**467,520**	**513**	**320**
*JA6CM	"	36,725	122	113
*JH7IPR/6	"	10,915	67	59
***JH6WHN**	**28**	**21,331**	**100**	**83**
***JR6GIM**	**14**	**72,000**	**195**	**160**
*JF6MGC	"	585	16	15
***JA6FGC**	**7**	**3,618**	**29**	**27**
JA7IC	**A**	**925,754**	**728**	**433**
JA7BME	"	433,440	462	301
JA7VEI	"	116,406	223	174
JR7IWL	"	111,891	230	151
JA7GYP	"	81,400	173	148
JA7ZP	"	72,864	179	138
JH7QXJ	"	19,635	90	77
JH7XGN	**28**	**55,552**	**178**	**128**
***JA0VTK/7**	**A**	**23,698**	**113**	**82**
*JP7AWQ	"	10,150	62	58
*JL7OTC	"	3,420	42	36
***JH7RTQ**	**28**	**20,979**	**107**	**81**
***JP7CFP**	**21**	**10,380**	**68**	**60**
***JA7FYU**	**14**	**11,560**	**75**	**68**
*JA7LLL	"	7,150	56	50
JA8TR	**A**	**475,500**	**507**	**300**
JA8MXC	**7**	**4,224**	**38**	**32**
***JA8EIU**	**A**	**191,148**	**340**	**204**
*JE8KKX	"	2,666	33	31
*JL8MBF	"	448	19	16
***JH8SIT**	**21**	**235,176**	**345**	**246**
JA9FO	**A**	**10,140**	**63**	**60**
JA9LJS	"	2,976	33	31
JA9CWJ	**21**	**567,000**	**546**	**375**
***JA9LX**	**A**	**108,414**	**228**	**171**
***JA9EJG**	**21**	**14,184**	**74**	**72**
*JH9VUU	"	3,131	36	31
JH0GHZ	**A**	**15,640**	**75**	**68**
JA0FVU	**21**	**28,236**	**128**	**78**
JH0NOS	**14**	**142,003**	**238**	**211**
***JH0NEC**	**A**	**240,084**	**361**	**247**
*JR0EQQ	"	61,104	161	134
***JR0BUL**	**28**	**532**	**16**	**14**
***JR0WZR**	**7**	**252**	**7**	**7**
Kazakhstan				
UN1L	**A**	**3,235,822**	**1604**	**566**
UP4L	"	2,002,505	1207	535
			(OP: UN7LZ)	
UN9PQ	"	198,182	289	197
UN8GV	"	85,228	202	149
UP6P	"	17,028	124	66
			(OP: UN6P)	
UN4PG	**21**	**1,057,464**	**873**	**456**
UN6LN	"	284,620	398	266
***UP7P**	**A**	**3,795,336**	**1803**	**648**
			(OP: UN7PBY)	
*UN7CN	"	632,960	609	344
*UN7TDB	"	620,662	536	301
*UN8P	"	225,096	345	249
*UN2G	"	76,734	199	147
***UN7CH**	**28**	**36,808**	**129**	**107**
*UN3M	"	25,315	107	83
*UN5J	"	20,592	95	78
*UN9LU	"	6,909	49	47
***UN6G**	**21**	**461,700**	**519**	**342**
***UN5C**	**3.5**	**97,000**	**140**	**125**
Kyrgyzstan				
EX2B	**A**	**73,743**	**196**	**141**
***EX8AI**	**14**	**79,464**	**196**	**154**
Mongolia				
***JT1DA**	**28**	**47,841**	**207**	**111**
Nepal				
***9N1II**	**21**	**199,341**	**422**	**207**
Saudi Arabia				
***7Z1SJ**	**A**	**2,288,608**	**1189**	**544**
*HZ1PS	"	844,022	636	397
*7Z1HL	"	116,754	217	174
***HZ1DG**	**28**	**720**	**16**	**16**
South Korea				
DS5DNO	**A**	**209,032**	**334**	**212**
HL2WP	"	28,776	126	88
DS5QLJ	"	10,945	65	55
HL9BSA	"	1,971	29	27
HL1/WX8C	**14**	**20,480**	**112**	**80**
***HL5YI**	**A**	**7,304**	**55**	**44**
Taiwan				
BV1EK	**A**	**397,440**	**513**	**276**
BU2AW	**21**	**139,656**	**336**	**184**
***BV4VQ**	**21**	**19,637**	**130**	**73**
Tajikistan				
EY7AD	**A**	**264,180**	**389**	**255**
Thailand				
***E21YDP**	**A**	**760,000**	**632**	**400**
***HS8JYX**	**21**	**3,255**	**42**	**35**
UK Bases on Cyprus				
***ZC4LI**	**A**	**2,461,796**	**1340**	**588**
United Arab Emirates				
A65BP	**A**	**3,972,852**	**1567**	**653**
			(OP: RV6LNA)	
A65BR	**3.5**	**8,360**	**39**	**38**
West Malaysia				
***9M2MRS**	**A**	**2,720**	**36**	**32**
***9M2JI**	**28**	**748**	**17**	**17**
***9M2DRL**	**14**	**105**	**7**	**7**

EUROPE

Austria				
OE6MMF	**A**	**1,082,840**	**766**	**428**
OE6MDF	"	523,215	527	315
OE9GHV	"	264,984	343	244
***OE2E**	**A**	**1,312,608**	**877**	**484**
			(OP: OE2GEN)	
*OE3RTB	"	1,034,748	733	396
*OE3PRU	"	291,004	395	266
*OE2LRO	"	47,082	151	114
*OE2DBM	"	6,026	48	46
*OE5LAL	"	5,547	45	43
*OE3DXA	"	4,558	47	43
*OE2IJL	"	3,196	38	34
***OE1ZKC**	**21**	**20,160**	**95**	**80**
			(OP: JH4RHF)	
***OE1MCU**	**7**	**1,847,678**	**825**	**487**
*OE5PEN	"	154,456	223	172
Azores				
***CR2V**	**A**	**647,510**	**678**	**365**
Balearic Islands				
***EA6AZ**	**A**	**47,900**	**164**	**100**
Belarus				
EV1R	**A**	**973,263**	**727**	**439**
EW7KR	"	298,304	383	236
EW6FX	**21**	**40,356**	**150**	**114**
EW4MM	**7**	**422,408**	**381**	**266**
***EU6AF**	**A**	**951,054**	**736**	**411**
*EW8DD	"	715,284	657	358
*EW8OG	"	705,208	628	343
*EW1NM	"	688,100	688	350
*EW8OF	"	442,500	493	300
*EU6AA	"	408,694	472	286
*EU4CQ	"	401,037	440	273
*EW6EN	"	354,314	460	289
*EW7LE	"	228,160	363	248
***EU1AZ**	**7**	**569,160**	**439**	**306**
*EW6DM	"	88,320	162	138
***EW8DZ**	**3.5**	**293,248**	**329**	**232**
Belgium				
OQ5A	**A**	**478,850**	**498**	**314**
ON4ALY	"	249,660	323	228
ON4KGL	"	183,180	287	215
ON5KQ	**7**	**89,344**	**171**	**128**
***OQ6A**	**A**	**2,345,862**	**1242**	**573**
			(OP: ON5MF)	
*ON4CT	"	1,911,576	1038	552
*ON5GQ	"	831,734	702	394
*OP4A	"	446,682	447	327
*ON6AT	"	253,200	322	240
*ON4CAS	"	239,568	317	248
*OP9T	"	142,545	286	195
*ON4KEB	"	110,442	209	158
*ON7BM	"	70,325	173	145
*ON4VMA	"	54,558	138	126
*ON6FC	"	47,232	140	123
*ON5HY	"	23,848	102	88
*ON7BT	"	12,040	78	70
*ON4AUB	"	10,561	66	59
*ON6OM	"	7,176	49	46
*ON4AXU	"	4,346	44	41
*OP4D	"	3,724	40	38
***OO4B**	**7**	**253,380**	**312**	**205**
			(OP: ON4ABL)	
***ON4CBA**	**3.5**	**196,116**	**283**	**177**
Bosnia-Herzegovina				
E77DX	**A**	**130,548**	**230**	**172**
***E73PY**	**A**	**238,160**	**346**	**229**
*E74KC	"	164,835	263	185
*E74A	"	57,834	144	126
***E72MM**	**21**	**21,225**	**105**	**75**
***E74AA**	**14**	**98,808**	**250**	**179**
Bulgaria				
LZ2PL	**A**	**392,129**	**468**	**317**
LZ1QN	"	237,380	332	220
LZ8E	"	204,531	330	237
			(OP: LZ2BE)	
LZ14Ø1SET	"	62,624	193	152
			(OP: LZ2UW)	
LZ2ZY	"	56,274	130	113
LZ2ZG	**3.5**	**44,352**	**116**	**99**
***LZ1QV**	**A**	**424,612**	**400**	**302**
*LZ1MC	"	93,024	199	153
*LZ1BY	"	14,400	93	72
***LZ2JA**	**21**	**258,888**	**390**	**268**
*LZ5IL	"	1,890	32	30
Crete				
SV9COL	**28**	**8,470**	**71**	**55**
***SV9BMG**	**A**	**642,297**	**594**	**347**
*SVØXCC/9	"	13,832	93	76
***SV9FBK**	**7**	**13,860**	**55**	**55**
Croatia				
9A2ØZJK	**A**	**466,014**	**486**	**303**
			(OP: 9A2JK)	
9A2CD	**28**	**63,648**	**176**	**136**
9A5Y	**21**	**1,987,008**	**1188**	**632**
			(OP: 9A3NM)	
9A2Ø6NA	"	19,251	96	69
9A8A	**7**	**335,472**	**342**	**241**
***9A2BW**	**A**	**351,390**	**417**	**265**
*9A6NDZ	"	49,728	133	111
*9A3KS	"	27,176	99	86
*9A2Ø7DCK	"	6,943	55	53
***9A2ØØWJ**	**28**	**1,364**	**24**	**22**
			(OP: 9A2WJ)	
***9A4R**	**14**	**133,984**	**296**	**212**
*9A2Ø6JOY	"	11,952	80	72
***9A6KZH**	**7**	**161,840**	**242**	**170**
Czech Republic				
OK2SFP	**A**	**2,421,072**	**1318**	**552**
OK2BXW	"	1,418,632	904	463
OK6RW	"	786,784	671	368
OK6DJ	"	402,600	434	305
OK2PF	"	335,070	390	255
OK1KT	"	147,452	247	191
OK2PAD	"	102,357	211	153
OK3C	"	82,134	209	162
			(OP: OK2ZC)	
OK1DBE	"	54,180	145	126
OK2BJI	"	7,084	50	46
OK1XC	**21**	**198,024**	**334**	**222**
OK2PCL	**14**	**160,506**	**304**	**222**
OK2SWD	"	1,125	26	25
OK3R	**7**	**2,767,884**	**987**	**581**
OK1EP	"	324,384	306	248
OK8WW	"	134,596	198	161
***OK1VRF**	**A**	**883,575**	**691**	**385**
*OK2CLW	"	704,103	562	339
*OK1DKO	"	681,884	591	343
*OK2EA	"	648,255	593	345
*OK1HEH	"	632,124	588	324
*OK1SI	"	592,016	588	326
*OK2PQS	"	471,822	511	299
*OK1DEZ	"	463,556	436	289
*OK2JNB	"	444,280	480	290
*OK2KV	"	305,750	385	250
*OK1PMA	"	144,192	218	192
*OK1FLC	"	123,172	205	166
*OK1VPO	"	114,545	206	155
*OK2CMW	"	94,381	166	139
*OK1CRM	"	48,548	133	106
*OK1DPU	"	24,087	100	93
***OK2QX**	**21**	**87,156**	**210**	**162**
*OK2PMS	"	33,354	122	102
***OK2RU**	**7**	**957,584**	**592**	**388**
*OK2UHP	"	483,368	423	284
*OK3MO	"	122,774	194	157
***OK2SAR**	**3.5**	**475,876**	**447**	**271**
*OK7T	"	80,860	163	130
			(OP: OK1FHI)	
*OK1DX	"	31,790	98	85
*OK1HL	"	810	15	15
Denmark				
OV1A	**A**	**1,273,392**	**919**	**444**
OU4O	"	460,660	465	310
OZ1ADL	"	379,755	411	291
OZ2TF	"	249,210	338	234
OZ4MAX	"	56,033	169	137
***OZ4VW**	**A**	**680,512**	**595**	**392**
*OZ6TL	"	499,093	517	329
*OZ1DUG	"	337,194	411	262
*OZ7DK	"	134,521	291	193
*OZ6AGX	"	85,965	212	165
*OZ1DGQ	"	16,948	90	76
***OZ7AEI**	**7**	**6,318**	**43**	**39**
Dodecanese				
***SV5DKL**	**3.5**	**2,200**	**24**	**22**
England				
GØVXE	**A**	**420,189**	**471**	**321**
GØSYP	"	305,054	375	254
GØRPM	"	266,910	389	246
M2G	"	181,158	303	218
			(OP: G4RCG)	
MØIKW	"	151,020	291	180
G3XTT	"	84,597	192	163
G7VRK	"	74,166	161	141
GØGFQ	"	50,786	159	134
G8UBJ	"	14,763	71	57
GØMGM	"	6,630	54	51
G6CRF	"	1,848	23	22
M3I	**28**	**88,067**	**216**	**161**
			(OP: GØORH)	
G6NHU	**21**	**699,540**	**682**	**393**
G3IGU	**14**	**666**	**19**	**18**
M7T	**3.5**	**114,760**	**204**	**151**
			(OP: G3YYD)	
***GØHDV**	**A**	**695,450**	**648**	**350**
*G4NDM	"	505,856	550	304
*G3SNU	"	472,842	560	327
*G4SGI	"	323,950	422	275
*G4MUL	"	135,216	275	216
*G3KNU	"	133,856	242	188
*G3LHJ	"	117,558	242	189
*MØTQR	"	115,736	248	184
*G4WGE	"	110,838	220	174
*G4GIR	"	78,624	172	144
*G4IUF	"	76,664	194	148
*G3RSD	"	39,690	117	98
*G4DDL	"	35,640	122	99
*G7TWC	"	32,100	121	107
*GØCER	"	27,552	98	84
*G6OKU	"	26,631	112	99
*G4OGB	"	25,146	110	99
*MØRYB	"	22,865	99	85
*GØVOK	"	20,230	90	85
*2EØRKS	"	17,136	75	68
*MØAFZ	"	13,213	77	73
*GØWHO	"	11,448	60	54
*GØRJL	"	11,392	69	64
*MØTAZ	"	11,385	62	55
*G3VAO	"	11,352	71	66
*MØOIC	"	10,920	70	65
*MØDMJ	"	10,452	71	67
*M1BCM	"	10,206	67	63
*G3VQO	"	6,032	53	52
*G4JKZ	"	5,115	34	33
*GØTOC	"	2,880	34	32
*M6ADB	"	2,336	32	32
*G7RTI	"	2,200	28	25
*G8MIA	"	1,160	20	20
***M7W**	**21**	**696,654**	**680**	**399**
			(OP: G3TBK)	
*G1VDP	"	15,326	89	79
***GØMTN**	**14**	**2,244**	**33**	**33**
***G8HBA**	**7**	**609,600**	**493**	**300**
*G3RLE	"	69,360	139	120
*MØVFC	"	3,584	29	28
*MXØHTJ	"	1,088	17	17
			(OP: MØTZO)	
Estonia				
ES2DJ	**A**	**1,499,850**	**1011**	**495**
ES4RD	**14**	**1,130,286**	**992**	**514**
***ES1LS**	**A**	**386,397**	**445**	**297**
***ES5KJ**	**28**	**3,069**	**38**	**31**
			(OP: ES5RY)	
*ES1WST	"	2,106	28	27
***ES7FU**	**3.5**	**126,084**	**199**	**158**
European Russia				
RV1CC	**A**	**113,399**	**214**	**169**
RU1AB	"	109,983	236	183
UA1OMS	**3.5**	**16,958**	**70**	**61**
***RO1B**	**A**	**847,012**	**763**	**428**
*RA1ALC	"	682,889	679	383
*RW1AI	"	27,857	101	89
*UA1OJL	"	15,795	92	81
*RD1A	"	300	10	10
***RZ1ZZ**	**14**	**500,460**	**597**	**380**
RD3A	**A**	**6,518,369**	**2458**	**869**
RT3P	"	2,547,986	1504	574
			(OP: UA3PAB)	
RN3ZC	"	1,010,940	821	415
UA3QJJ	"	651,648	677	384
RA3TT	"	555,170	591	385
UA5C	"	494,788	479	287
R3VA	"	466,302	502	327
RW3WX	"	446,600	485	308
RA3NC	"	245,575	344	235
RW3LB	"	236,210	325	230
R3GZ	"	228,864	383	256
UA3DPM	"	170,310	299	210
R3QN	"	100,968	226	168
RA3YC	"	81,015	224	165
RV3IC	"	52,934	165	133
RA3YRA	"	33,496	128	106
UA3QGT	"	16,985	104	79
RV3LZ	"	9,504	62	54
RA3IS	"	4,066	40	38
RZ3VA	**28**	**12,322**	**81**	**61**
RL2A	**21**	**69,551**	**191**	**157**
RV3A	**14**	**496,782**	**597**	**386**
RU5TT	"	470,242	585	382
R3PW	**7**	**974,352**	**588**	**383**
R3KM	"	327,320	329	245
RM5P	"	37,668	107	86
RV5K	**3.5**	**110,704**	**195**	**148**
***RX3ASQ**	**A**	**1,277,306**	**1045**	**466**
*RX3ZX	"	936,736	814	401
*UA3AMZ	"	838,188	745	398
*RV3ZN	"	717,804	658	381
*RN3ZIC	"	658,217	615	343
*RQ3M	"	509,736	526	317
*UA3PT	"	460,816	584	332
*R2LA	"	458,415	515	305
*R2AT	"	404,396	468	323
*R3QW	"	385,860	470	295
*R3BB	"	345,117	486	303
*RU3XB	"	309,636	398	282
*RU3FM	"	230,850	345	243
*RX3AEX	"	227,143	369	259
*UA3DCW	"	198,750	372	250
*R3PA	"	140,532	287	196
*RA3GZ	"	137,578	307	217
*RD3AL	"	78,894	204	162
*RU3OZ	"	72,988	172	142
*UA3TN	"	69,165	199	145
*R5ACQ	"	67,496	200	143
*RA3FF	"	61,388	180	149
*RV3LO	"	55,144	166	122
*RU3VV	"	53,802	155	126
*R5DT	"	51,054	152	127
*UA3YFL	"	47,702	145	122
*RW3PF	"	46,800	151	117
*RA3RUF	"	43,320	147	114
*RG5A	"	33,060	111	95
*RL3QCQ	"	32,301	135	111
*RA3ICK	"	32,200	96	92
*RM5D	"	31,065	107	95
*R3QX	"	18,360	82	68
*UA3MON	"	17,538	88	74
*R3OR	"	15,326	88	79
*RN3DHL	"	13,419	79	63
*RZ3DC	"	12,709	77	71
*RK3BA	"	9,381	69	53
*UA3UBT	"	9,263	67	59
*RX3MM	"	6,588	57	54
*RM3DA	"	4,368	47	42
***UA3SAQ**	**28**	**19,228**	**97**	**76**
***UA3GIE**	**21**	**246,708**	**415**	**267**
*RF3A	"	177,310	322	238
			(OP: RZ3AV)	
*RX3AGQ	"	81,144	220	168
*R2SA	"	38,918	140	122
*RN3DNG	"	26,631	115	99
***RM2M**	**14**	**524,438**	**586**	**373**
*RN3DHU	"	156,545	312	239
RA4HL	**A**	**1,944,558**	**1331**	**549**
UA4HBM	"	453,530	515	310
UA4NC	"	81,216	185	144
RW4NN	"	21,500	97	86
UA4CC	**28**	**2,850**	**35**	**30**
RW4WZ	**14**	**160,064**	**313**	**244**
***UA4HJ**	**A**	**1,218,082**	**915**	**454**
*RN4HFJ	"	1,110,192	888	458
*RK4S	"	788,970	740	390
*UA4ALI	"	630,252	653	369
*RU4PH	"	410,050	485	278
*RK4R	"	207,060	349	238
*UD4FD	"	205,680	345	240
*R4WT	"	170,476	320	218
*RW4PFF	"	167,348	325	214
*RU4LM	"	165,888	299	216
*UA4UT	"	111,180	223	170
*RW4HM	"	91,656	217	171
*UA4FCO	"	53,632	147	128
*RA4FAU	"	40,228	144	113
*RV4LC	"	38,658	116	102
*UA4LU	"	34,662	143	106
*RN4AM	"	33,888	111	96
*RW4NH	"	27,027	120	99
*UA4WJ	"	22,185	102	85
*RA4WC	"	21,586	103	86
*RV4HL	"	12,331	60	59

*UA4FBG	"	7,112	60	56
*RW4LQ	"	6,672	50	48
*UA4SBZ	"	5,936	54	53
*RA4FP	"	4,346	50	41
*UA4FTA	"	2,550	33	30
*RN4CA	"	480	15	15
*RK4HZ	"	28	4	4
*RW4WA	21	451,572	548	363
*UA4PAY	"	7,488	54	52
*RU4HY	7	1,140	18	15
*RD4HD	3.5	87,492	169	138
R6DX	A	2,120,158	1239	554
RW6CR	"	1,389,375	956	475
R7HF	"	275,400	407	270
UA6AA	"	222,950	354	245
RA6MK	"	118,816	204	158
RX6MR	"	42,448	135	112
R7LP	"	22,327	89	83
UA6LJB	21	272,060	411	305
RA6DE	14	683,991	694	441
UA6AKD	7	462,000	416	280
RA6XV	3.5	29,546	103	79
RZ6AK	"	2,448	25	24
*R7MM	A	1,525,076	1065	502
*UC6A	"	1,238,841	920	459
*RO7M	"	987,072	861	424
*RN6MA	"	497,952	647	342
*R7BN	"	402,300	493	300
*RA6C	"	318,854	438	262
*RA6HSM	"	236,574	368	234
*RY7A	"	193,858	272	227
*RL6LP	"	108,016	232	172
*RV6ACC	"	43,740	156	135
*RN6AI	"	23,276	103	92
*UA6JQ	"	4,716	38	36
*RA6AAW	"	3,534	37	31
*RW6AH	28	12,075	84	69
*R7NA	21	160,746	327	219
*RV6ALI	14	568,260	660	410
*RW6DJ	"	269,952	442	304
*RV6FT	"	19,313	96	89
*RV6LCI	3.5	100,426	188	149
*R8XF	A	713,064	761	407
UA9FGJ	21	140,713	292	223
RC9F	14	27,242	120	106
*RX9FG	A	517,314	604	327
*RA9FRD	"	462,859	561	323
*UA9XL	"	186,480	328	222
*RK9FBE	"	74,253	199	159
*R9FA	"	16,318	94	82
*RA9FEL	28	51,456	188	128
*UA9FFV	"	1,755	29	27

European Turkey

TC1DX	A	543,368	541	313
*TA1BM	A	629,596	655	349
*TA1EE	"	40,950	116	91

Finland

OH4A	A	3,810,152	1764	692
			(OP: OH4KA)	
OH7UE	"	1,938,612	1175	559
OG3ØOJ	"	938,862	852	387
			(OP: OH3OJ)	
OG6N	"	634,848	635	389
OH8KVA	"	467,283	492	327
OH6MW	"	338,525	414	275
OH2GI	"	189,141	264	201
OH9GIT	"	66,781	176	143
OH6BA	"	46,556	136	113
OH2XX	"	7,700	58	55
OH1F	21	265,512	390	276
			(OP: OH1NOA)	
OH2RI	7	1,089,724	659	398
OH2HAN	3.5	773,604	557	342
*OH2LU	A	1,312,900	931	475
*OG8T	"	553,161	584	371
*OH2NT	"	349,590	441	271
*OH8FQS	"	277,020	366	285
*OH2JLN	"	37,485	134	105
*OH6HZH	"	5,180	38	35
*OH3QL	"	133	7	7
*OH6K	28	9,633	65	57
			(OP: OH6FSG)	
*OH1TN	"	5,676	52	43
*OH7MN	21	333,900	479	300
*OH3CV	"	11,220	68	66
*OH6GAZ	"	7,904	60	52
*OH3DP	14	1,050	21	21

France

F/TU5KG	A	4,485,789	1766	693
F1RHS	"	1,330,155	958	501
F5OAM	"	860,668	750	412
F6IIT	"	668,160	626	384
F5POJ	"	388,220	447	295
F5CQ	"	386,295	417	283
F5GFA	"	338,605	426	281
F5AMH	"	275,500	378	250
F6BBO	"	119,856	244	176
F5TVG	"	9,062	60	46
F5SIZ	"	6,292	59	52
F6CBA	"	3,290	36	35
F5PHW	"	2,967	24	23
F5NBX	21	22,532	100	86
TM57M	14	1,082,088	849	532
			(OP: F1NGP)	
TM9FL	"	649,686	685	417
			(OP: F5TJX)	
*TM22P	A	1,615,502	1049	514
			(OP: F6HRP)	
*F4GDI	"	970,288	725	407
*F8CRS	"	429,135	417	305
*F1IWH	"	391,391	458	299
*F6GCI	"	347,076	434	279
*F5RD	"	269,762	338	229
*F4FDR	"	197,574	330	221
*F6DZD	"	160,160	284	208
*TM38O	"	108,720	199	151
			(OP: F5TMJ)	
*F8PMO	"	84,660	206	166
*F4EZJ	"	74,658	167	138
*F6DKQ	"	72,816	177	148
*F5LMJ	"	65,500	170	125
*F6CQU	"	59,670	158	130
*F5TRB	"	34,093	114	103
*F4FSB	"	31,776	117	96
*F4UMJ	"	24,402	111	98
*F5CT	"	23,544	99	72
*F1IRU	"	11,968	76	68
*F5GGL	"	10,260	62	60
*F4EFL	"	2,584	36	34
*F5PVK	"	429	13	13
*F4FDA	28	124,257	262	183
*F1EBN	21	74,576	179	158
*F4GOU	"	4,752	45	44
*F6FTB	7	291,856	324	232

Germany

DL4MCF	A	4,113,044	1616	724
DD2ML	"	3,091,200	1527	640
DF7ZS	"	2,996,910	1331	639
DF5MA	"	1,523,496	989	514
DJ8EW	"	1,490,480	925	496
DK7YY	"	1,388,728	848	473
DK6CQ	"	1,367,856	885	483
DF9GR	"	1,354,612	927	479
DHØGHU	"	1,315,383	825	463
DL5JS	"	1,252,902	841	483
DL1NEO	"	1,228,439	813	443
DK1KC	"	1,097,790	798	430
DJ9MH	"	969,664	734	436
DL5AXX	"	844,600	647	410
DL4ME	"	820,914	693	361
DF2TT	"	769,824	662	396
DJ5IW	"	675,840	560	352
DF6QV	"	644,954	592	334
DL6EZ	"	615,505	576	361
DL9NCR	"	598,230	558	345
DF5BX	"	549,186	526	314
DF2RG	"	517,104	518	336
DFØBV	"	444,565	442	295
			(OP: DL1MAJ)	
DJ6TK	"	429,300	480	324
DK3GI	"	374,814	401	297
DL5YM	"	342,996	411	283
DD7ZT	"	342,936	403	264
DL9NDV	"	301,350	349	245
DL8ZAW	"	238,126	323	233
DJ2YE	"	220,101	316	223
DK1LRS	"	212,826	324	237
DF6RI	"	210,367	304	211
DJ3IW	"	177,670	219	218
DL3APO	"	137,700	239	180
DK8EY	"	136,836	259	189
DL5ST	"	123,015	241	177
DJ1TO	"	122,640	226	168
DF9OO	"	120,848	209	166
DL1YFF	"	109,440	222	180
DK7ZT	"	107,253	191	153
DJ2IA	"	101,840	205	152
DL1OLI	"	90,117	193	153
DF8JK	"	69,920	202	152
DL6OCM	"	57,564	154	123
DL2MDU	"	57,540	160	140
DF5AN	"	56,250	145	125
DL8OH	"	54,936	145	126
DL2OBO	"	43,896	109	93
DJ2SL	"	31,410	105	90
DM3FF	"	30,700	118	100
DG9MDM	"	30,411	100	93
DG2MKV	"	29,754	106	87
DM5TI	"	28,847	98	91
DL7BA	"	24,960	97	78
DK3AX	"	23,852	99	89
DK4IO	"	22,116	104	76
DL5MEV	"	20,480	98	80
DL8RDL	"	13,206	68	62
DL3MR	"	12,672	69	64
DL9GTB	"	8,600	61	50
DG1ATN	"	8,272	49	47
DL6DCD	"	8,007	56	51
DL1YM	"	7,200	51	50
DL7AOJ	"	4,636	40	38
DJ6TB	"	4,292	41	37
DL2SWN	"	1,587	25	23
DL4RCK	28	89,270	212	158
DF9ZP	21	1,560,706	1041	574
DL3BQA	"	727,818	674	403
DJ8ES	"	77,385	180	165
DJ3NG	7	368,468	391	251
DJ2RG	"	205,134	311	191
DL5RMH	"	37,664	97	88
DO4DXA	3.5	268,176	332	222
DL2RTL	"	750	15	15
*DL9YAJ	A	1,997,056	1062	538
*DH6BH	"	1,701,504	983	504
*DL1QW	"	1,623,392	970	523
*DL1YD	"	1,363,998	860	491
*DL6NDW	"	917,730	723	405
*DM6DX	"	850,855	709	379
*DJ4MH	"	835,016	686	364
*DL4ZA	"	781,056	648	384
*DH7LF	"	688,148	590	356
*DK5MB	"	642,969	541	359
*DL6SFR	"	583,416	548	333
*DL5ARM	"	546,951	542	337
*DL1ZBO	"	505,776	504	328
*DL8MAS	"	472,926	496	298
*DA9L	"	460,416	490	327
			(OP: DO1BEN)	
*DL2AL	"	460,245	500	305
*DL1ARJ	"	439,236	490	294
*DL8SCG	"	408,149	424	293
*DO9PL	"	399,094	454	314
*DJ1ER	"	379,236	405	286
*DB2KT	"	361,772	403	298
*DL3KVR	"	339,864	384	289
*DM2GG	"	337,176	396	252
*DF1LX	"	320,528	363	268
*DJ5HB	"	313,182	387	254
*DF3EH	"	273,699	360	279
*DM5JBN	"	246,100	355	230
*DL6ZBN	"	230,175	313	225
*DL1FCU	"	226,100	330	238
*DK4RL	"	221,409	309	219
*DK2AT	"	211,456	327	224
*DL5JBW	"	211,299	340	209
*DL1NHW	"	202,707	311	223
*DK1AUP	"	199,152	306	216
*DL2YCA	"	198,516	326	233
*DL7UXG	"	190,209	300	213
*DL2RUG	"	179,861	267	197
*DJ2MX	"	173,166	267	186
*DL6NWA	"	171,754	315	211
*DK7GH	"	170,126	257	209
*DL5GAC	"	167,256	304	202
*DO6NIK	"	153,924	264	202
*DL3SYA	"	149,836	269	188
*DL3HWD	"	144,963	242	189
*DJ2AX	"	141,290	247	199
*DL4JYT	"	140,094	249	181
*DL3OH	"	139,308	241	188
*DL3ARM	"	136,836	235	181
*DK5IR	"	136,682	257	182
*DL7DZ	"	131,655	234	201
*DF6WE	"	131,250	233	210
*DL9FB	"	130,662	238	183
*DJ5CL	"	127,002	221	183
*DGØKS	"	123,794	234	187
*DJ6JH	"	113,040	225	180
*DL5NEN	"	105,138	198	162
*DL3ARK	"	100,048	198	169
*DO2UDX	"	97,637	185	163
*DF3IS	"	97,461	196	153
*DL4EAX	"	95,940	206	164
*DF7JC	"	94,380	197	165
*DK2AB	"	92,991	179	139
			(OP: @DLØTUD)	
*DJ3EF	"	90,440	199	152
*DL9NEI	"	84,968	194	152
*DK3PM	"	84,864	180	156
*DJ6UP	"	80,852	194	164
*DL7UGO	"	80,780	194	140
*DKØOF	"	79,182	195	159
			(OP: DL5BCF)	
*DL1NRC	"	78,402	201	146
*DO3ME	"	74,444	170	148
*DL8NBJ	"	72,644	175	143
*DLØLG	"	67,584	167	128
			(OP: DF6HZ)	
*DL2LMS	"	65,800	165	140
*DL4AC	"	59,736	166	131
*DH5WB	"	59,160	189	145
*DL4MFF	"	52,390	148	130
*DR65ØBAR	"	49,368	149	102
			(OP: DL9SUB)	
*DG1EZ	"	47,908	138	116
*DL1MDZ	"	47,619	141	117
*DK4VY	"	46,854	137	114
*DL3EBX	"	46,368	138	112
*DF4WC	"	45,140	148	122
*DB3KE	"	44,574	149	114
*DL5KUR	"	43,542	140	123
*DL7URH	"	43,218	117	98
*DA1BT	"	42,876	123	108
			(OP: DL4VCW)	
*DL4FAP	"	41,088	143	107
*DL5ZBA	"	40,182	141	111
*DL5ASK	"	38,913	121	109
*DF1HF	"	37,286	111	103
*DL2GK	"	31,916	125	101
*DH9SB	"	31,114	119	94
*DF2MC	"	30,704	116	101
*DL1LQA	"	25,839	107	87
*DL8ZAJ	"	25,696	98	88
*DL2ARG	"	25,024	102	92
*DMØB	"	24,276	98	84
			(OP: DK9IP)	
*DO1CDE	"	23,941	107	89
*DL5AYI	"	23,000	111	92
*DL1AMH	"	22,632	100	92
*DL1BA	"	22,437	89	81
*DG3FAW	"	22,072	103	89
*DL1DXF	"	21,684	87	78
*DK4WO	"	20,584	99	83
*DL1DBR	"	19,712	89	77
*DL1AQN	"	18,177	85	73
*DJ5QV	"	17,484	70	62
*DJØJG	"	17,250	82	69
*DL3WM	"	15,257	78	73
*DK5DC	"	14,464	73	64
*DM4JK	"	14,420	75	70
*DB1RL	"	11,616	80	66
*DL5HF	"	11,024	61	53
*DJ9FG	"	9,945	69	51
*DF6JF	"	9,018	62	54
*DB3LO	"	6,510	45	42
*DK3WW	"	6,204	50	44
*DB4MZ	"	4,758	41	39
*DO3PKE	"	4,572	37	36
*DM2DK	"	3,914	39	38
*DL6RBH	"	2,592	28	27
*DM4YWL	"	1,406	19	19
*DL4DG	"	1,323	22	21
*DL1CW	"	1,239	21	21
*DF6YC	"	1,155	23	21
*DL5AKF	"	494	13	13
*DK3RA	"	470	11	10
*DK9MH	"	308	12	11
*DL1ET	"	200	10	8
*DL4AO	"	147	7	7
*DL3VZL	"	133	7	7
*DC3RJ	28	17,464	85	74
*DL5SWB	"	7,285	55	47
*DO3KMF	21	100,275	223	175
*DO6SR	"	54,386	175	142
*DO6GZ	"	32,528	121	107
*DL3DRN	"	6,026	49	46
*DL8CA	"	2,945	35	31
*DGØDG	"	1,344	24	24
*DO8AH	"	900	18	18
*DH7SA	14	476,159	572	361
*DL1DTL	"	456,665	543	361
*DL1THB	"	18,304	99	88
*DC2TOM	"	2,686	36	34
*DL1OJ	"	880	21	20
*DL5KUD	7	721,050	541	345
*DM5HF	"	174,148	243	197
*DH5AO	"	97,344	191	144
*DM5WH	"	77,616	179	126
*DK6YM	"	47,700	119	106
*DL2ZA	"	45,084	119	102
*DH5ABC	"	26,208	91	78
*DL7YS	"	8,370	48	45
*DL7AU	"	3,500	28	25
*DK7VW	"	64	5	4
*DF8XC	3.5	795,396	609	357
*DL2SAX	"	61,272	154	111
*DJ1MM	"	49,434	129	107
*DO6PS	"	3,904	32	32

Greece

SV2GJV	A	505,092	591	294
SV1JGX	"	372,368	502	272
SV3GKU	"	44,577	144	117
SX1912K	3.5	30,544	92	83
			(OP: SV2IPF)	
*SV1JG	A	799,112	698	404
*SV2JAO	"	327,275	436	265
*SV2HTI	"	208,980	381	258
*SV1HKD	"	151,500	272	202
*SV7CUD	"	57,918	181	147
*SV2FLQ	"	24,332	98	77
*SV2CLJ	"	18,960	97	79
*SV7BVM	"	8,949	64	57
*SV2HXV	"	5,628	50	42
*SV1BJW	28	21,248	108	83
*SV1MRV	14	19,488	116	87

Guernsey

*GUØSUP	A	701,655	548	435

Hungary

HAØHW	A	157,192	293	196
HA5OO	"	72,125	172	125
HA8FK	"	50,661	144	117
HA6NN	"	920	22	20
HA8UT	28	11,001	67	57
HA5AWT	21	101,790	230	174
HA5NB	14	20,340	99	90
HA8BT	7	636,086	486	319
HA8BE	3.5	1,214,190	737	405
HG1G	"	994,448	685	364
HA3LI	"	936,768	668	357
HA8V	"	191,616	256	192
			(OP: HA8MV)	
*HA5BSW	A	1,559,572	968	511
*HAØMS	"	928,266	742	393
*HG8C	"	556,248	506	344
			(OP: HA8EK)	
*HA5AGS	"	480,025	505	325
*HA8XF	"	281,820	394	231
*HA5VZ	"	211,345	309	215
*HAØRZK	"	48,387	169	127
*HA5OMM	"	42,636	130	114
*HA8AL	"	10,797	72	61
*HG3IPA	21	158,970	293	210
			(OP: HA3JB)	
*HAØML	"	32,883	126	97
*HG7T	14	2,130,776	1314	664
*HA8QZ	"	559,398	659	399
*HA5KN	"	51,520	175	140
*HA8TI	"	28,815	122	113
*HAØHV	"	27,540	119	108
*HA5UY	3.5	14,022	63	57

Iceland

TF3AO	A	836,264	839	442
*TF3PPN	A	230,652	393	258

Ireland

EI2GLB	A	1,503,872	1006	496
EI3GRB	"	293,930	427	266
*EI4DW	A	561,275	522	325
*EI9KC	"	23,688	98	84
*EI8FH	"	7,544	46	46
*EI3GC	21	887,094	781	446

Italy

IZ2FOS	A	2,193,984	1231	586
IK2SND	"	1,709,325	1028	535
IK8UND	"	1,229,877	921	451
IC8POF	"	1,161,738	816	466
IW3HXR	"	883,976	685	376
IK3PQG	"	807,880	673	380
IN3JJI	"	706,275	606	365
I7CSB	"	539,832	498	332
IK2LOL	"	480,519	519	333
IK5FKF	"	428,260	452	322
IK5GQK	"	415,500	464	300
IK2SAI	"	382,220	450	290
IK2DPP	"	326,300	387	260
IK1MEG	"	283,316	373	274
IZ3KUY	"	279,282	380	267
IK7CMY	"	253,238	401	254
IV3JCC	"	220,946	327	242
I2DJX	"	172,484	290	214
IK2GWH	"	134,302	242	181
IKØEFR	"	102,557	202	161
I5JFG	"	95,550	206	175
IKØUTM	"	90,153	202	159
IN3BJS	"	89,088	165	116
IWØSAF	"	87,110	192	155
IV3AVQ	"	60,088	137	116
IK2GZU	"	52,520	158	130
I1WQR	"	39,429	143	117
IK2QIN	"	17,171	81	77
IW1RAX	"	13,600	76	68
IK2YXB	"	10,800	56	50
IW3GXW	"	4,625	41	37
I3JUK	"	4,212	40	39
IZ1OMY	"	3,978	35	34
I3VJW	"	2,000	28	25
I2SVA	"	630	15	15
IO4C	28	340,272	438	306
			(OP: IZ4DPV)	
IK3ASM	"	5,456	49	44
IQ3UD	21	733,608	705	414
IV3TMV	"	487,458	529	354
IZ8EDL	"	6,550	56	50
IQ4RN	14	812,916	771	468
IZØPSC	"	68,103	179	161
IW1PNJ	7	1,314,108	742	422
I2DMI	"	883,858	636	359
IZØPMV	"	825,548	579	358
IZ5MOQ	"	102,396	199	138
IK2WZV	"	91,936	154	136
IQ4RA	3.5	1,488,884	810	449
			(OP: I4AVG)	
IZØKBR	"	1,300,604	765	422
*IW3IFJ	A	1,233,056	802	452
*IK5AMB	"	766,292	604	382
*IW2MXY	"	753,246	672	377
*IK3ORD	"	740,916	660	396
*IZ2EAS	"	723,450	618	371
*IW3IAU	"	681,284	595	362
*I2XLF	"	617,210	532	341
*IV3BCA	"	582,330	547	354
*IK2YSJ	"	581,544	549	328
*IN3BIY	"	515,840	517	320
*IZ2GRG	"	459,483	490	309
*IK1SOW	"	430,688	463	313
*IZ4AFW	"	361,767	455	321
*IW2MYH	"	348,726	408	266
*IK4QJF	"	328,328	453	287
*IK3QAR	"	299,880	378	252
*IØGIA	"	297,432	383	243
*IK8NBE	"	248,832	329	243
*IKØTUM	"	219,438	294	219
*IK4CLF	"	200,970	264	203
*IZ8FFA	"	197,263	299	227
*IZ4RWU	"	181,989	284	219
*IK1DFH	"	177,282	261	189
*IK4ZHH	"	174,932	296	202
*IK7RVY	"	168,181	305	221
*IK5VQK	"	152,460	287	210
*IZ5HQB	"	146,873	290	193
*IW1FZR	"	146,445	237	195
*IKØCHU	"	143,073	249	189
*IV3BXV	"	131,202	248	197
*I1NVU	"	124,824	208	168
*IK3STG	"	122,820	235	178
*IØZUT	"	119,035	224	179
*IK1VEK	"	117,390	231	182
*I2BZN	"	114,048	217	162
*IK2RPE	"	111,072	217	178
*I4UUL	"	109,725	228	165
*IW5ALG	"	105,244	209	166
*IK3XJP	"	97,995	175	141
*I7/IN3IZT	"	93,888	194	163
*IV3XNF	"	91,581	190	147
*IK2AUK	"	90,520	199	155
*IQ4FA	"	83,860	193	140
			(OP: I4JEE)	
*IK2WFN	"	82,950	185	150
*I8IEQ	"	82,597	191	151
*IZ3QCH	"	75,361	163	143
*IV3XZG	"	74,160	155	144
*I2TFJ	"	70,290	185	142
*IZ3GOG	"	67,728	176	136
*IN3EJN	"	63,376	166	136
*I4HRH	"	62,775	171	135
*IQ1TO	"	59,898	154	134
			(OP: IZ1DXS)	
*IZ8DVD	"	57,477	138	119
*IK2WYI	"	51,840	177	128
*IK1/DH2SAQ	"	51,350	165	130
*IW1QLH	"	46,548	134	108
*I2ORX	"	46,138	135	118
*IK7WPD	"	44,118	134	114
*IV3KSE	"	42,066	136	114
*IK7NXU	"	41,000	135	100
*IZ1KGY	"	39,168	115	102
*IZ5CMG	"	38,913	134	119
*IQ7AF	"	37,648	121	104
			(OP: IK7JWX)	
*IN3XWE	"	37,336	124	104
*IK2ANI	"	31,790	124	110
*IK1MTX	"	28,208	98	86
*IK3CST	"	25,585	93	85
*IWØRVQ	"	24,012	104	87
*IZ1GLX	"	21,546	89	81
*IZ2MHT	"	20,150	75	65
*IW6NZY	"	20,097	97	87
*IW1CQ	"	19,662	97	87
*IZ2EWM	"	18,648	85	72
*IZ8CLM	"	18,318	79	71
*IK2GPQ	"	17,136	99	84
*IW2JRV	"	14,430	74	65
*IQ2CJ	"	14,280	89	56
			(OP: IK2JUB)	
*IZ1QXW	"	12,075	75	69
*IZ2PCJ	"	10,088	60	52
*IW5EDI	"	9,288	57	54
*IN3FHE	"	8,928	50	48
*IV3IQY	"	8,460	51	45
*IKØXIH	"	8,415	51	51
*IZ5ILV	"	7,084	52	46
*IZ5IOS	"	6,258	47	42
*IW3SAR	"	4,480	43	40
*IK2IKW	"	4,365	47	45
*IØYQV	"	3,630	37	33
*IWØGYC	"	2,310	32	30
*IZ3TFL	"	2,133	27	27
*IØHJN	"	1,836	27	27
*I1ABT	"	1,742	27	26
*IK3GES	"	1,560	26	24
*IW2NRI	"	1,225	26	25
*IZ7FSY	"	1,092	22	21
*IK5AFJ	"	954	19	18
*IV3XPP	"	576	13	12
*IW3IKZ	"	324	9	9
*IK5BOH/2	"	6	1	1
*IKØEIE	28	52,125	149	125
*IKØPEA	"	45,279	139	117
*IK2AHB	"	24,140	106	85
*IW5EIJ	"	3,536	43	34
*IZØFZM	"	1,218	23	21
*IZØINX	"	3	1	1
*IZ1PKV	"	0	0	0
*IZØUME	21	145,530	284	210
*IK7XNF	"	42,681	153	123
*IZØICM	"	3,360	36	32
*IK2EBP	"	1,344	24	24
*IZ8IYL	14	455,470	583	370
*IQ2CU	"	220,825	362	275
			(OP: IN3OWY)	
*IN3HUU	"	58,739	179	151
*IZ7SIA	"	17,112	102	92
*IZ2JNN	"	15,215	94	85
*IK4XQT	"	3,237	42	39
*IZ5MMB	"	1,968	28	24
*I1/IK2DKX	"	846	18	18
*IZ2CSX	"	378	14	14
*IW4EGX	7	943,714	589	389
*IW2HUS	"	438,030	382	279
*IV3AZV	"	235,320	294	212
*I2WIJ	"	95,220	161	138
*IZ7SLF	"	10,608	53	52
*IZ2CEF	"	2,150	25	25
*IKØXBX	3.5	129,368	211	157
*IZ3KSO	"	53,714	132	107

Kaliningrad

RA2FB	14	116,541	267	207
*RA2FF	A	451,940	499	295

Latvia

YL9T	A	2,385,600	1341	568
			(OP: YL2TW)	
YL3FP	"	980,496	755	396
YL6W	"	208,848	302	228
YL2IP	14	106,050	243	202
YL2KF	7	237,390	296	193
*YL2QV	A	351,036	406	294
*YL2PJ	28	8,586	59	53
*YL3FW	7	101,500	172	145

Lithuania

LY1R	A	2,582,964	1333	628
LY9Y	"	1,529,868	997	529

LY2FN	"	895,752	710	396
LY16W	"	48,101	130	103
			(OP: LY5W)	
LY2CX	"	44,990	139	110
***LY6A**	**A**	**2,733,836**	**1405**	**599**
*LY2TS	"	327,010	413	265
*LY2SA	"	282,978	343	237
*LY5D	"	235,620	329	220
*LY2BVB	"	89,961	209	157
*LY2CV	"	83,655	211	165
*LY2WN	"	24,415	107	95
*LY2N	"	7,849	49	47
***LY4K**	**21**	**11,340**	**80**	**60**
*LY4OO	"	24	3	3

Luxembourg

LX1NO	**A**	**891,810**	**693**	**405**
***LX1C**	**A**	**540,540**	**528**	**315**

Macedonia

Z37M	**21**	**1,172,745**	**908**	**511**
Z36W	**7**	**2,277,580**	**912**	**526**
***Z35X**	**A**	**220,818**	**308**	**247**
*Z3ØA	"	10,560	70	64
***Z35GL**	**28**	**420**	**12**	**12**
***Z31MM**	**14**	**197,316**	**389**	**252**
***Z32XU**	**3.5**	**135,884**	**213**	**161**

Moldova

***ER3DX**	**A**	**724,064**	**610**	**374**
*ER3AU	"	217,752	313	211
*ER3ZZ	"	14,384	68	62
***ER3MM**	**3.5**	**9,984**	**52**	**48**

Netherlands

PA3AJH	**A**	**465,696**	**496**	**294**
PG3N	"	273,024	342	237
PA9DD	"	228,360	293	220
PI4DX	"	112,316	236	172
			(OP: PA3EVY)	
PA3HFX	"	21,504	104	96
PA3EEG	"	16,259	79	71
PA2KW	"	9,064	44	44
PDØRKA	"	9,060	65	60
PA4B	**14**	**72,372**	**201**	**163**
PA2MRT	**7**	**33,034**	**98**	**83**
***PA1RBZ**	**A**	**737,382**	**617**	**354**
*PA3DBS	"	651,807	617	351
*PA3ACA	"	490,782	486	314
*PD5T	"	359,656	401	268
*PA3ANN	"	308,853	385	243
*PDØDK	"	298,890	395	243
*PA2CVD	"	168,100	301	205
*PA63PSK	"	164,298	288	197
			(OP: PA2LP)	
*PD2JAM	"	153,527	235	187
*PD2PKM	"	119,712	218	174
*PD1EJA	"	112,763	224	181
*PBØACU	"	96,333	197	163
*PA3EWG	"	95,151	197	161
*PA3CDN	"	70,752	165	132
*PA3GCU	"	67,450	174	142
*PE1FTV	"	66,378	172	138
*PAØTCA	"	38,038	111	91
*PA2A	"	37,136	106	88
*PD2GSP	"	33,984	114	96
*PE2S	"	32,754	127	103
*PA3GVI	"	27,768	104	89
*PDØMWG	"	27,720	124	105
*PA3GDD	"	25,536	97	84
*PB7XYL	"	24,750	91	75
*PA3CMF	"	24,640	100	80
*PD7BZ	"	22,860	100	90
*PDØJMH	"	22,185	94	87
*PA7PTT	"	21,760	100	80
*PA3HGF	"	21,296	106	88
*PA1JIM	"	21,082	96	83
*PDØWR	"	20,739	105	93
*PDØRON	"	19,890	97	85
*PA3ARM	"	17,845	96	83
*PF5M	"	9,729	74	69
*PA3GMM	"	6,720	50	48
*PDØME	"	1,804	23	22
***PAØMIR**	**28**	**9,504**	**63**	**54**
***PDØGK**	**14**	**28,340**	**126**	**109**
*PD7RB	"	10,106	68	62

Northern Ireland

***MIØM**	**14**	**436,680**	**559**	**360**
			(OP: MIØSAI)	

Norway

LB8IB	**A**	**5,688,896**	**2267**	**824**
LA5HPA	"	1,721,932	1134	556
LA9DFA	"	745,125	601	375
LA9TJA	**21**	**134,829**	**281**	**213**
LA1TV	**3.5**	**424,964**	**407**	**262**
LA3WAA	"	25,584	90	78
***LA5LJA**	**A**	**949,620**	**794**	**399**
*LA3BO	"	548,100	561	315
*LA9TY	"	364,780	429	305
*LA1QDA	"	282,795	387	255
*LAØFA	"	147,460	228	202
*LA9DK	"	141,316	297	196
*LA9AU	"	31,866	132	113
*LA9RY	"	9,168	56	48
***LA5QIA**	**14**	**235,173**	**400**	**277**
***LA8OKA**	**7**	**85,008**	**154**	**132**
*LA3BPA	"	47,586	113	103

Poland

SN7Q	**A**	**5,156,900**	**1963**	**742**
SP3RBG	"	2,134,246	1145	538
SP3GXH	"	1,840,893	1036	519
SO6I	"	1,684,925	1009	557
3Z5W	"	1,432,520	969	472
			(OP: SP5KP)	
SP9JQA	"	586,840	544	340
SQ7B	"	258,609	371	247
SP6NVK	"	214,368	341	224
SP1DMD	"	159,744	260	192
SN9A	"	152,145	243	189
			(OP: SP9FQI)	
SQ7RL	"	26,649	98	81
SP7IIT	"	19,110	76	65
SQ9IWS	"	9,690	61	57
SO4M	**14**	**2,200,496**	**1354**	**664**
			(OP: SP4K)	
SP3ASN	"	285,246	407	299
SP2KPD	"	3,906	44	42
SP3VSE	**7**	**1,738,884**	**828**	**489**
HF8RTTY	"	1,462,800	781	424
			(OP: SQ8GHY)	
SN7F	"	289,224	305	234
			(OP: SP7LFT)	
SP5ELA	"	14,520	65	60
SN2M	**3.5**	**1,380,062**	**789**	**431**
			(OP: SP2XF)	
SP6AXW	"	315,560	353	230
***SO8T**	**A**	**3,496,521**	**1481**	**651**
			(OP: SP8TJU)	
*SQ9UM	"	3,291,600	1535	633
*SP8CGU	"	790,262	614	374
*SQ8JX	"	708,935	601	355
*SP6JZP	"	536,952	533	312
*SP9CTS	"	427,625	459	275
*SP3DOF	"	411,536	475	289
*SP6DNZ	"	384,293	441	287
*SP9CXN	"	348,768	407	252
*SP9BGS	"	348,145	410	245
*SP4CJA	"	328,944	405	264
*HF1Z	"	316,200	383	255
			(OP: SP1EG)	
*SP1NZ	"	305,288	429	248
*SN7O	"	273,735	343	237
			(OP: SP7IVO)	
*SN9I	"	237,442	328	227
			(OP: SP9EMI)	
*SP3DSC	"	230,622	328	238
*SP7DBI	"	227,808	322	224
*SP6MLX	"	189,602	272	203
*SO9G	"	186,456	283	204
			(OP: SP9DTE)	
*SQ8LEC	"	155,652	281	204
*SP1DPA	"	149,760	248	192
*SP2MKZ	"	143,070	294	190
*SP2UUU	"	109,336	210	158
*SP6TRX	"	103,016	200	158
*SP6QKP	"	94,471	214	169
*SP1F	"	59,904	142	117
*SP7QHR	"	51,118	160	122
*SQ7LQJ	"	49,833	143	113
*SQ8KEZ	"	48,026	142	118
*SP3BAY	"	39,675	133	115
*SP5GRM	"	37,758	137	93
*SP9WZP	"	37,170	120	105
*SP2MKT	"	36,575	111	95
*SN1Z	"	28,600	106	88
			(OP: SQ1EIX)	
*SP7LIE	"	26,000	110	80
*SP5GDY	"	25,800	98	86
*SP7SEP	"	24,000	98	75
*SQ6PHP	"	19,188	91	78
*SP9IHP	"	13,530	68	55
*SQ9FCH	"	8,225	51	47
*SQ8GUM	"	6,840	46	45
*SP3GAX	"	5,850	52	45
*SP9OHL	"	5,130	47	45
*SP1I	"	3,808	36	34
*SO8W	"	3,366	40	33
			(OP: SQ8JLN)	
*SP5APW	"	516	13	12
*SP3BJK	"	198	9	9
*SQ8JMC	"	182	7	7
***SP6IHE**	**28**	**10,556**	**65**	**58**
*SP9MZH	"	270	10	9
***SP1MHZ**	**21**	**161,415**	**292**	**211**
*SP2GCJ	"	42,265	141	107
*SP9DNO	"	39,960	140	108
*SQ8KFH	"	27,146	109	98
*SP9CLU	"	2,635	35	31
*SQ1TDJ	"	684	20	19
***SP5CQI**	**14**	**49,320**	**164**	**137**
*SQ1WO	"	46,800	173	130
*SQ4SGA	"	28,270	121	110
*SP3BGD	"	8,400	58	56
***SP3UIW**	**7**	**317,844**	**315**	**243**
*SN7S	"	86,736	160	139
***SP9BNM**	**3.5**	**584,672**	**507**	**302**
*SP5ECC	"	277,300	303	235

Portugal

***CT2JMR**	**A**	**83,159**	**192**	**137**
*CT1FOQ	"	18,426	92	83
***CT1EEK**	**21**	**635,091**	**658**	**417**
***CS2B**	**7**	**795,648**	**578**	**336**
*CT1AOZ	"	280,296	265	229

Romania

YO9HP	**A**	**2,684,400**	**1425**	**600**
YQ6A	"	2,290,281	1249	573
			(OP: YO6BHN)	
YP6Z	"	1,071,115	803	445
			(OP: YO6PZZ)	
YO6OAF	"	825,944	697	392
YO7CVL	"	99,354	241	174
YO7LFV	"	79,365	241	165
YO5CUQ	"	19,345	84	73
YO2DFA	"	7,367	56	53
YO3APJ	"	5,664	50	48
YO2MFC	"	4,875	40	39
YO2IS	**28**	**12,567**	**76**	**59**
YO2RR	**21**	**617,022**	**665**	**354**
YO3VU	"	448,825	558	325
YO5OHY	**14**	**94,392**	**230**	**184**
YO5PBF	**3.5**	**422,928**	**409**	**264**
***YO5BYV**	**A**	**530,400**	**529**	**312**
*YO5NY	"	345,184	390	268
*YO8WW	"	292,352	339	256
*YO2GL	"	230,214	291	222
*YO6DBA	"	207,390	311	223
*YR4D	"	192,654	295	198
			(OP: YO4CVV)	
*YO2LXW	"	188,496	319	204
*YO6DBL	"	178,967	290	191
*YO5FMT	"	115,948	208	164
*YO6HSU	"	104,160	210	155
*YO4RST	"	86,036	194	137
*YO8RFS	"	49,005	121	99
*YO2LDU	"	41,382	141	114
*YO8ST	"	27,538	116	98
*YO5TP	"	23,016	98	84
*YO2LSP	"	19,929	77	73
***YO3JF**	**28**	**20,020**	**94**	**77**
***YRØWL**	**21**	**98,090**	**232**	**170**
			(OP: YO9BXC)	
***YO8DDP**	**14**	**272,688**	**473**	**276**
*YO9CWY	"	260,309	422	287
*YO8DFF	"	180,480	374	240
*YO5OLD	"	72,522	215	158
***YO3RU**	**7**	**653,250**	**500**	**325**

Sardinia

***ISØLFZ**	**A**	**476,410**	**480**	**305**

Scotland

MMØAMW	**A**	**1,968,791**	**1123**	**583**
GM8SBH	"	1,867,635	1095	539
			(OP: GMØFGI)	
MMØGPZ	"	1,524,593	988	503
GM3W	"	1,097,744	897	437
			(OP: GM3SEK)	
MMØCBL	"	80,400	196	150
GM2V	"	30,943	120	97
			(OP: GM3WOJ)	
***MMØR**	**A**	**165,737**	**289**	**209**
			(OP: MMØRKT)	
*GMØNKX	"	4,494	45	42
***MM3T**	**28**	**4,080**	**43**	**40**
			(OP: GMØELP)	
***GM3C**	**14**	**436,970**	**543**	**370**
			(OP: GMØNBM)	
*MMØDWF	"	155,335	308	235
***MMØEAX**	**7**	**744,276**	**523**	**338**

Serbia

YT2U	**A**	**1,261,777**	**845**	**457**
YU1CC	"	2,548	30	28
YT3H	**14**	**621,180**	**660**	**420**
***YU1KT**	**A**	**570,064**	**557**	**328**
*YU1RP	"	182,093	299	211
*YT7AW	"	106,572	198	166
*YT8A	"	17,520	90	73
			(OP: YU1EA)	
***YT2B**	**28**	**27,416**	**111**	**92**
***YU8NU**	**21**	**47,244**	**161**	**127**
***YT5W**	**14**	**774,367**	**776**	**451**
			(OP: YT2PFR)	
*YT1RW	"	96,968	247	184
*YU1WS	"	83,424	220	176
***YU1AST**	**7**	**1,395,450**	**747**	**443**
			(OP: YU2A)	
*YU1XX	"	352,824	337	244
***YTØZ**	**3.5**	**176,344**	**239**	**188**
			(OP: YU1ZZ)	
*YU7D	"	94,920	171	140

Sicily

IT9DFI	**A**	**48,000**	**127**	**120**
IT9BLB	"	40,710	142	115
IT9MUO	**14**	**737,100**	**748**	**455**
***IT9RZU**	**A**	**551,592**	**565**	**376**
*IT9AJP	"	226,026	302	261
*IT9BDR	"	40,293	117	111
*IT9XTP	"	3,589	39	37
***IW9FDD**	**14**	**432,525**	**536**	**365**
*II9P	"	52,200	170	145
			(OP: IT9CHU)	
***IT9BXR**	**7**	**65,052**	**141**	**117**
*IT9AUH	"	3,840	35	30
*IT9JOF	"	1,312	16	16

Slovak Republic

OM2VL	**A**	**4,382,670**	**1566**	**695**
OM5ZW	"	4,106,375	1581	665
OM6W	"	927,375	732	375
OM7KW	"	63,498	142	114
OM7PY	"	48,384	159	126
OM3TPN	"	8,468	60	58
***OM7OM**	**A**	**1,201,968**	**800**	**408**
*OM7AG	"	624,624	574	338
*OMØDX	"	584,021	562	337
*OM8LA	"	474,672	484	319
*OM3R	"	387,360	423	288
			(OP: OM3CFR)	
*OM4O	"	169,728	304	221
			(OP: OM3NI)	
*OM7LM	"	167,422	252	194
*OM5MX	"	158,912	253	191
*OM3TLE	"	121,550	232	170
*OM7YL	"	103,540	193	155
*OM7YC	"	67,014	165	146
*OM2DT	"	59,055	159	127
*OM3ZBG	"	20,064	88	76
*OM7ANO	"	10,422	70	54
*OM3BY	"	2,625	26	25
*OM3IAG	"	429	15	13
***OM4TC**	**14**	**109,028**	**258**	**194**
***OM3PA**	**7**	**456**	**13**	**12**

Slovenia

S52OP	**A**	**5,023,877**	**1838**	**769**
S51NM	"	468,900	480	300
S53M	"	365,139	344	261
			(OP: S51FB)	
S57AL	"	302,637	367	281
S57DX	"	74,691	160	129
S57W	"	15,812	78	67
S51DI	"	1,518	24	22
S57YK	**14**	**139,216**	**293**	**226**
S5ØA	**7**	**4,918,274**	**1418**	**713**
S51CK	"	1,617,414	801	471
***S56A**	**A**	**1,504,256**	**932**	**512**
*S57PR	"	529,530	480	285
*S51DX	"	253,559	293	227
*S51JQ	"	240,792	350	237
*S55Z	"	89,642	175	133
*S55VM	"	32,487	104	91
*S57S	"	27,234	99	89
*S57AJ	"	6,636	49	42
*S53BB	"	630	16	15
***S57YX**	**7**	**211,344**	**260**	**204**
***S53F**	**3.5**	**637,560**	**503**	**315**

Spain

EA1AKS	**A**	**2,844,576**	**1416**	**581**
ED1A	"	308,195	401	265
			(OP: EA1AST)	
EA1EPM	"	89,472	216	192
EA1CM	"	21,296	96	88
EA1WX	"	2,744	33	28
EA1KY	**28**	**51,216**	**163**	**132**
ED1Q	**21**	**685,619**	**682**	**397**
			(OP: EA1QA)	
EB1IC	"	134,028	261	204
EE1Z	**3.5**	**411,714**	**418**	**257**
			(OP: EB1LA)	
***EA1WW**	**A**	**1,161,105**	**855**	**465**
*EA1EA	"	822,800	655	374
*EA1AAW	"	143,200	256	179
*EA1JO	"	114,739	236	179
*EA1AY	"	98,532	218	161
*EB1GZO	"	36,977	128	103
*EA1AW	"	31,302	127	111
*EA1GWM	"	9,828	56	52
*EA1PF	"	4,232	51	46
*EA1BRD	"	846	20	18
***EA1OS**	**14**	**1,013,460**	**890**	**508**
*EE1V	"	112,770	257	210
			(OP: EA1HLW)	
*EA1IR	"	13,244	82	77
***EA1DR**	**7**	**115,420**	**176**	**145**
***EA2CNS**	**A**	**59,136**	**161**	**132**
*EB2RA	"	11,440	66	55
***EE2W**	**14**	**38,796**	**157**	**122**
			(OP: EB2AM)	
EA3DUM	**A**	**392,815**	**470**	**313**
EE3R	"	102,024	197	156
			(OP: EA3OR)	
EA3BD	"	87,934	191	154
EA3ANE	"	24,024	99	91
EA3CEC	"	3,924	39	36
EE3P	"	2,000	25	25
EE3Y	**28**	**17,680**	**86**	**80**
			(OP: EA3EYD)	
EE3J	**7**	**1,105,748**	**624**	**391**
			(OP: EA3JW)	
***EF3A**	**A**	**2,658,720**	**1320**	**580**
			(OP: EA3KU)	
*EA3GBA	"	487,956	567	314
*EA3FLS	"	45,292	158	134
*EB3JT	"	28,925	105	89
*EA3AYQ	"	22,599	109	93
*EB3MA	"	9,888	52	48
***EA3NO**	**28**	**40,600**	**135**	**116**
***EA3BCK**	**21**	**1,809**	**27**	**27**
***EA3GLB**	**14**	**1,333,458**	**1015**	**557**
EE2T/4	**A**	**53,136**	**180**	**144**
			(OP: EB2FJN)	
***EC4AIU**	**A**	**218,556**	**382**	**234**
*EA4GB	"	147,573	265	171
*EB4GRT	"	30,272	91	88
*EE4K	"	23,533	110	101
*EA4BNQ	"	1,272	24	24
***EA4ZK**	**28**	**12,726**	**69**	**63**
*EA4AFP	"	3,952	39	38
***EA4SG**	**7**	**23,736**	**70**	**69**
EA5HT	**A**	**1,649,405**	**1116**	**535**
EA5GIE	"	110,716	253	178
ED5J	**28**	**24,252**	**105**	**94**
			(OP: EA5DM)	
EA5BZ	**21**	**33,264**	**133**	**108**
EF5Y	**14**	**96,755**	**253**	**185**
			(OP: EA5GTQ)	
***EA5HAB**	**A**	**1,643,887**	**1164**	**511**
*EB5CS	"	360,888	417	264
*EA5DKU	"	326,914	399	266
*EA5GSW	"	230,230	343	253
*EA5HRT	"	222,640	308	220
*EA5FHC	"	194,902	325	223
*EC5AEZ	"	141,496	243	184
*EA5TT	"	2,418	28	26
***EA5HJO**	**28**	**22,620**	**96**	**87**
***EA5ET**	**14**	**39,038**	**146**	**131**
*ED5K	"	17,820	93	90
			(OP: EA5FHK)	
***EA5XC**	**7**	**510,064**	**436**	**284**
*EA5FDM	"	171,226	241	181
EA9LZ/7	**A**	**896,235**	**888**	**401**
EB7CIN	"	424,612	503	302
EA7TV	"	331,294	439	302
EA7TG	"	132,496	250	182
EA7ZY	**21**	**404,595**	**556**	**333**
EA7HLU/EA1	**3.5**	**41,004**	**122**	**102**
			(OP: EA7HLU/EA1)	
***EA7/OH6XY**	**A**	**347,188**	**437**	**292**
			(OP: OH6XY)	
*EE7A	"	308,914	394	257
			(OP: EA7CIX)	
*EA7CWA	"	156,378	280	201
*EA7IBK	"	115,364	256	191
*EA7AZA	"	61,774	165	134
*EA7VJ	"	8,344	60	56
*EA7IQM	"	7,540	60	52
***EA7KP**	**21**	**188,728**	**324**	**248**
***EA7RM**	**7**	**36,120**	**103**	**86**

Sweden

8S6E	**A**	**1,933,228**	**1099**	**583**
SK2T	"	1,464,484	979	542
			(OP: SM2LIY)	
SM6NOC	"	1,416,020	989	505
SMØBSO	"	949,968	761	432
SM5D	"	935,066	687	418
			(OP: SM5DJZ)	
SM5EPO	"	682,104	623	388
SM4DQE	"	551,115	564	331
SMØV	"	527,604	553	308
SM5CZQ	"	303,576	387	273
SM6GKT	"	197,155	301	215
SLØW	"	123,080	267	181
			(OP: SMØAJU)	
8SØC	"	20,592	92	88
			(OP: SMØMPV)	
SM6AHU	"	6,721	51	47
SA3V	"	735	16	15
			(OP: SA3ARL)	
SM3LBP	**14**	**344,640**	**487**	**320**
SA1A	"	2,695	35	35
			(OP: SM1TDE)	
SM5QU	**7**	**301,784**	**310**	**238**
***SM6NET**	**A**	**760,420**	**631**	**386**
*7S5S	"	695,098	638	367
			(OP: SM5CSS)	
*8S5ØBQ	"	644,722	632	362
			(OP: SM7BHM)	
*SG5W	"	331,530	388	257
			(OP: SM5IMO)	
*SM7CIL	"	218,542	323	226
*SM2BJS	"	199,134	353	234
*SM2IUF	"	137,711	250	191
*SM2JUR	"	134,140	250	190
*SMØA	"	85,514	224	169
			(OP: SMØAIG)	
*SK6HD	"	82,524	212	156
			(OP: SA6AQP)	
*7S3F	"	52,224	167	128
*SM5ACQ	"	48,037	152	121
*SFØD	"	47,064	131	106
			(OP: SMØDSF)	
*SE5S	"	33,280	125	104
*SM3DXC	"	15,375	79	75
*SA7AOI	"	3,276	39	36
*SM4RLD	"	3,016	30	29
***SM7U**	**7**	**65,212**	**139**	**119**
			(OP: SM7PAF)	

Switzerland

HB9FBG	**A**	**495**	**15**	**15**
***HB9DHG**	**A**	**716,846**	**613**	**349**
*HB9CNY	"	157,002	267	191
*HB4FL	"	106,833	227	149
			(OP: HB9ADJ)	
*HB9CXK	"	12,480	70	60
***HB9ELD**	**21**	**14,184**	**77**	**72**
***HB9BJL**	**14**	**4,788**	**45**	**38**
***HB9SVT**	**7**	**62,376**	**142**	**113**
***HB9AWS**	**3.5**	**19,026**	**78**	**63**

Ukraine

UZ2M	**A**	**7,476,480**	**2804**	**885**
			(OP: URØMC)	
UW8I	"	4,585,547	1888	769
			(OP: UT2IZ)	
EO3Q	"	3,457,335	1613	665
			(OP: UR3QCW)	
EM2G	"	3,445,760	1627	673
			(OP: UR7GO)	
UW5U	"	2,399,004	1252	582
UV5U	"	2,292,639	1251	607
			(OP: UX1UA)	
UXØFF	"	980,548	812	428
UT7CA	"	673,095	661	345
UX6IR	"	442,830	468	290
UR4EI	"	419,964	491	316
UT5UKY	"	295,668	401	258
UT2GA	"	263,375	362	245
UR7EU	"	163,894	298	227
UR5QA	"	122,436	227	171
UU4JC	"	103,373	225	167
UVØI	"	90,915	193	145
UU2JQ	"	51,802	147	118
UT5ERV	"	27,416	105	92
USØLW	"	13,340	67	58
UTØRM	"	3,264	36	34
UR3QM	"	663	17	17
UT1IA	**28**	**85,760**	**232**	**160**
UZ5Q	"	270	11	10
			(OP: UY5QZ)	
UW4I	**21**	**1,648,393**	**1204**	**569**
			(OP: US5IQ)	
USØMM	"	461,910	596	346
US5LO	"	17,352	86	72
US7IS	**14**	**298,240**	**434**	**320**
UR5ZMK	"	212,784	366	264
EO4M	**7**	**3,952,800**	**1333**	**648**
			(OP: UR5MW)	
UR5WCQ	"	433,152	348	288
UT2IW	**3.5**	**136,458**	**211**	**171**
***URØHQ**	**A**	**1,805,931**	**1164**	**531**
*UT5EPP	"	1,572,994	1081	457
*UX1UX	"	1,493,505	989	481
*US4LPY	"	1,349,865	1050	505
*UR4U	"	1,328,040	867	465
			(OP: UR4UDI)	
*UT8EL	"	1,266,840	999	460
*UT7I	"	1,171,455	908	435
			(OP: UT2IO)	
*UY7MM	"	1,158,420	910	449
*US6CQ	"	996,730	802	406
*UX1IL	"	821,541	755	399
*USØAK	"	729,162	682	378
*UR5ETN	"	721,440	625	360
*UW7F	"	590,556	581	348
			(OP: UR5FEO)	
*UT3RS	"	563,801	540	337
*UY3MW	"	513,670	561	310
*UX7FD	"	508,160	551	320
*UX6IB	"	420,992	469	286
*UR4MG	"	418,409	470	281
*UR8IF	"	397,575	412	279
*UY5TE	"	391,437	481	279
*UT1IM	"	391,124	407	277
*US7IA	"	381,072	453	272
*UR5LJD	"	350,480	434	260
*UX3IW	"	338,212	374	257
*UT8IT	"	290,909	389	251
*UR5FS	"	280,976	385	272
*UV5EOE	"	280,618	393	251
*UR3CMA	"	244,125	353	225
*UR3ILY	"	225,835	352	235
*UR5EPV	"	218,922	311	214
*US1VS	"	218,538	302	213
*UU1K	"	208,170	384	257
			(OP: UU5JVK)	
*UT3WW	"	202,477	292	233
*UT7IS	"	192,608	291	208
*UR3AC	"	178,602	305	206
*UT5JCE	"	157,206	269	197
*UR5LY	"	132,090	197	170
*UR5IHD	"	129,525	262	165
*UTØFC	"	113,652	246	164
*UR3UT	"	102,080	221	160
*UT4UQ	"	99,699	227	167
*UY5IG	"	91,784	197	149
*UR5ZIW	"	89,176	195	142
*US7IKJ	"	86,112	210	156
*UT7MR	"	78,100	186	142
*UR5EIT	"	69,296	170	142
*UY5AX	"	69,083	172	139
*UX7FC	"	57,456	159	114
*URØIM	"	56,166	161	111
*UR8EQ	"	54,740	169	119
*US8UA	"	36,951	125	109
*UW1WU	"	30,268	112	92
*UX7QV	"	28,704	116	104
*UX2HB	"	26,166	100	89
*UR5IHC	"	23,276	101	92
*UX7FB	"	17,136	98	84
*UTØNN	"	16,013	73	67
*US3ITA	"	14,832	81	72
*US3LX	"	13,702	75	62
*UR5LAK	"	11,594	65	62
*UYØCA	"	8,798	65	53
*UR5FCM	"	8,064	58	48
*UV5QR	"	7,482	46	43
*UR5LBM	"	4,836	41	39
*U5EX	"	3,180	32	30
*UR3LTD	"	2,716	30	28

*UR2MO	"	2,025	27	27
*UR5XFQ	"	928	16	16
*UT2IV	28	36,146	145	106
*UY5ZZ	"	11,564	74	59
*UR8QR	21	142,676	291	212
*UT5PQ	"	93,312	214	162
*US1IV	"	90,272	217	182
*UXØUW	"	83,157	199	159
*UT2EF	"	33,176	139	104
*UR7EC	"	9,480	71	60
*UU9JQ	14	433,985	558	365
*UX1LW	"	120,692	277	211
*US4IPC	"	115,786	282	209
*UR5PG	"	52,540	177	142
*UR7QM	"	48,852	176	138
*USØHZ	7	771,808	515	356
*UY2UQ	"	686,080	508	335
*UU4JIM	"	566,544	422	319
*UR4CU	"	397,120	370	272
*UW2F	"	354,000	346	250
			(OP: UTØFT)	
*UT5ECZ	"	65,550	128	115
*UZ2HZ	3.5	577,574	478	317
*UT5KO	"	299,706	331	239
*UX4FC	"	187,376	265	196
*UR5IFB	"	146,200	228	170
*UT2HM	"	80,920	171	140
*UR5IHQ	"	58,032	146	117
*UT4XD	"	55,912	138	116

Wales

GW4SKA	A	3,239,328	1553	656
GW4BLE	"	174,825	298	189
MW2I	21	49,680	160	120
			(OP: GW5NF)	

OCEANIA

Australia

VK2CA	A	130,152	241	187
*VK2GR	A	13,908	77	61
*VK2KDP	"	2,028	29	26
VK3TDX	A	1,490,832	970	493
*VK3FM	A	167,717	273	193
VK4IU	A	867,200	720	400
VK4UC	"	697,175	616	395
VK4CC	"	1,610	23	23
VK4FNQ	28	1,026	19	18
*VK4BL	A	20,898	94	81
*VK4FJ	21	242,046	344	238
*VK4IMX	14	3,360	35	35
*VK6XX	28	96,822	202	163

East Malaysia

9M6XRO	A	255,354	399	219

Guam

KG6DX	28	352,089	459	261
*KH2/JS6RRR	21	34,080	144	80
			(OP: JS6RRR)	

Hawaii

KH6CW	A	136,843	247	173
*KH6OO	A	97,090	214	146
*AH6NF	"	3,944	42	34
*KH6ZM	28	798,222	779	346
*KH6GMP	21	71,248	197	122

Indonesia

*YB6EN	A	459,510	410	265
*YB1PT	"	150,212	284	188
*YC6EI	"	15,708	75	68
*YBØCOU	"	4,953	43	39
*YB8EL	21	335,352	434	267
*YBØJIV	"	35,123	119	103
*YB1HK	14	66,924	165	143
*YB1AR	7	124,122	167	137
*YC2WBF	"	25,024	70	68
*YC6EO	"	6,800	37	34
*YC2LEV	"	3,536	26	26

New Zealand

*ZM3T	28	94,237	224	143
			(OP: W3SE)	
*ZL2KBR	14	1,408	22	22

Palau

T88ZO	A	304,051	431	211
			(OP: JA1IST)	

Philippines

4H1T	A	47,808	170	96
*DV1JM	A	564,564	594	286

SOUTH AMERICA

Argentina

LV5V	A	3,655,014	1709	701
			(OP: LU5VV)	
LT1F	"	2,971,710	1546	630
			(OP: LU1FAM)	
LU9DPM	"	97,467	227	159
LU1BJW	"	20,202	84	74
LW9ETQ	"	10,340	67	55
LU6QI	"	8,957	60	53
LU7HN	28	1,507,101	1037	493
*LU7FTS	A	477,692	548	307
*LR1F	"	372,027	481	269
			(OP: LU5FD)	
*LU8DCF	"	203,090	324	230
*LU4VEW	"	149,682	287	202
*LU1XT	"	33,280	137	104
*LU8EOT	28	185,409	333	189
			(OP: LU9ESD)	
*LU5FZ	"	130,501	248	181
*LU9EHU	"	5,152	54	46
*LU5FGA	"	2,848	34	32
*LU5MT	21	27,538	104	98
*LU5CAB	14	8,848	74	56

Aruba

P49X	A	11,632,690	3442	862
			(OP: WØYK)	
*P4ØYL	A	4,839,181	1825	661

Bolivia

*CP1FF	14	8,990	65	62

Bonaire

*PJ4R	A	7,600,000	2717	760
			(OP: N4RR)	

Brazil

PY7ZY	A	123,291	245	171
PY2KP	"	38,420	130	113
PT7DX	"	31,719	107	97
PP1CZ	21	125,904	243	183
PY4RGS	"	52,182	153	117
PR7AR	14	48,816	149	113
PY2KJ	7	94,536	142	117
*ZX2B	A	3,548,440	1601	665
			(OP: PY2MNL)	
*PY2NY	"	1,020,908	795	404
*PU5AAD	"	207,708	332	228
*PY5TJ	"	22,050	101	90
*PY2NM	"	11,224	71	61
*PP5ZB	"	6,672	60	48
*PS7DX	"	6,348	51	46
*ZV2C	"	4,640	49	40
*PY3APY	"	1,560	24	24
*PR7ZAJ	"	322	15	14
*PU5ATX	28	241,606	423	214
*PU3LTA	"	15,840	81	72
*PY4XX	"	3,800	40	38
*PU2SGL	"	496	16	16
*PY4EK	21	71,307	183	139
*PY1ZV	"	68,072	192	127
*PY2UN	14	5,612	48	46
*PY2OC	7	8,056	39	38

Chile

CE3FZ	A	409,578	522	267
XR3P	"	374,975	467	283
			(OP: CE3PG)	
CE3EEA	14	132,384	243	197
*3G3O	A	294,480	441	240
			(OP: CE3OPE)	
*XQ7UP	28	78,048	194	144
*XR1V	14	159,644	274	214
			(OP: CE1VCZ)	

Colombia

HK1R	A	44,253	153	99
*5K3R	A	1,262,456	881	398
			(OP: HK3R)	
*HK3JJB	"	634,224	477	292

Curacao

PJ2/WI9WI	A	1,318,275	995	405
			(OP: WI9WI)	

Ecuador

*HC1JQ	21	1,950	26	26

Paraguay

*ZP9EH	A	20,698	99	79
*ZP5DBC	28	205,800	343	210

Suriname

PZ5RA	A	3,993,608	1672	632

Uruguay

*CX8AF	A	15,960	83	70

Venezuela

*YV5KG	A	940,976	781	368
*YV8AD	"	111,020	189	140
*YW5RY	28	44,132	152	118
			(OP: YV5KAJ)	
*YV4BCD	14	70,500	181	141
*YW5T	7	1,331,748	651	354
			(OP: YV5JBI)	
*YV6BTF	"	90,324	135	117

QRP

TM3T	A	1,229,088	884	434
			(OP: F5VBT)	
TM9K	"	1,075,306	771	446
RX1CQ	"	1,010,240	764	440
KØDU	"	845,500	922	445
IZ8JFL/1	"	663,216	647	337
IK5RUN	"	589,268	522	358
K2YG	"	566,040	637	356
UU4JO	"	463,590	503	303
HA7YS	"	362,600	386	259
UX2MF	"	315,435	414	255
SP5XSL	"	261,112	372	254
DF5WW	"	254,270	345	235
DF1MM	"	228,056	335	232
UX8ZA	"	219,350	354	214
UR7CT	"	216,810	350	219
SP7QJB	"	165,787	260	193
S59D	"	152,067	236	173
IZ2JPN	"	148,986	256	186
RT4W	"	142,612	292	202
EA1GT	"	141,752	282	188
			(OP: EA1GT/QRP)	
ON2AD	"	122,525	237	169
HAØGK	"	110,550	216	165
N6WG	"	90,643	304	161
SP4BPH	"	90,500	193	125
YU1LM	"	88,060	186	148
EA3FHP	"	79,474	219	158
UAØA	"	78,343	206	157
IZ3NVR	"	77,265	207	153
SP8LXE	"	73,931	185	143
PE2K	"	73,220	185	140
CO2VE	"	71,374	188	127
DJ3GE	"	61,875	158	125
DL6ABB	"	55,680	152	120
YO8SAI	"	53,966	132	121
AI9K	"	51,534	233	126
CT1ELF	"	50,386	160	122
S51JS	"	44,100	124	105
RV3DBK	"	32,591	139	109
UAØZED	"	28,674	161	81
HB9CEY	"	28,469	99	83
PD1BOX	"	23,920	106	92
RV3DCZ	"	22,356	112	92
SP9DEM	"	22,348	96	74
UN7TAE	"	22,327	108	83
KB2HSH	"	20,315	113	85
IØUZF	"	19,635	99	85
YO4AAC	"	17,710	98	77
UAØSBQ	"	13,124	79	68
G4WNC	"	12,780	73	71
DL8AWK	"	12,696	74	69
IZ5PNL	"	12,040	65	56
SQ6OXD	"	11,651	75	61
F6OBD	"	8,568	64	63
G6CSY	"	8,428	49	49
JK1TCV	"	8,350	58	50
DL1JB	"	7,040	48	44
DL8LR	"	6,854	50	46
W6QU	"	3,686	39	38
			(OP: W8QZA)	
HA3OU	"	3,597	36	33
VE6SKY	"	3,132	42	36
WA8HSB/4	"	2,960	42	37
VU2UR	"	2,958	34	34
KO1H	"	2,448	26	24
RW3AI	"	2,304	35	32
NXØX	"	1,624	29	29
IZ5JLW	"	1,334	24	23
VA3FS	"	780	22	20
AB1HD	"	512	18	16
YO7ARY	"	264	12	12
S54AA	28	44,128	142	112
RU7A	"	19,812	105	78
EW1FR	"	5,560	56	40
NA5NN	"	4,664	55	44
			(OP: K2FF)	
K3TW/4	"	945	26	21
YB1ALL	"	240	11	8
N7AT	21	243,726	420	294
			(OP: K8IA)	
EA4EQD	"	109,431	225	189
JH3DMQ	"	108,580	231	178
HA6FQ	"	30,240	117	96
IV3AOL	"	25,665	113	87
IZ2QKG	"	19,422	102	83
YU/NF5A	"	11,859	84	67
			(OP: YT2T)	
IZØGYP	"	9,240	59	55
N8HM/3	"	7,749	70	63
ON8NT	"	4,560	46	40
K6VHF	"	3,840	57	48
LY2BBF	"	1,298	25	22
JR2LBF	"	540	15	15
TG9ANF	14	393,104	593	311
IK3NLK	"	92,684	235	188
EA1GFY	"	11,808	84	72
YO3DAC	"	11,088	81	72
LU6FT	"	2,618	35	34
GØBWG	"	2,211	33	33
LZ3GW	"	72	6	6
UN7LAS	"	60	6	6
IZ8GBH	"	27	3	3
PD4X	"	6	2	1
UT3N	7	403,788	389	266
			(OP: UT3NK)	
HG6C	"	207,746	257	209
			(OP: HA6IAM)	
IK4UXA	"	138,240	216	180
9A2Ø9L	"	76,472	139	121
			(OP: 9A9L)	
RT5R	"	57,856	126	113
VE3GTC	"	10,904	58	47
CO2KY	"	780	16	15
HA1WD	3.5	289,212	324	231
SP6EIY	"	123,000	199	164
			(OP: SP6EIY/QRP)	
UX5UU	"	112,548	200	166
UTØFF	"	40,850	114	95
SP4GL	"	39,744	108	96
SQ2HNA	"	31,328	105	88
LY4BF	"	13,920	64	58
9A4AA	"	10,682	56	49
UT8UL	"	7,128	46	44
DM9K	"	2,912	30	28
			(OP: DO4DXA)	

ROOKIE

United States

W1PL	A	536,928	815	336
NR9J	"	325	13	13
*AB1OD	A	532,560	650	336
*KJ4WLN	"	183,556	359	218
*KC2WYL	"	72,352	235	152
*KO4PU	"	63,315	248	135
*N3UE	"	55,062	173	126
*KC9RNK	"	35,420	160	110
*AB4G	"	29,568	142	96
*KK4BJV	"	27,500	120	100
*NØAJN	"	27,225	153	99
*WBØWIV	"	18,796	100	74
*KB3VNH	"	17,762	113	83
*KQØJ	"	14,490	77	70
*NØQP	"	2,730	47	39
*NØATQ/9	"	2,178	36	33
*KX7DX	"	1,728	24	24
*KD8RKP	28	36,698	152	118
*K6OK	"	11,780	93	76
*AK4EM	7	8,200	61	50

DX

OE6MMF	A	1,082,840	766	428
YP6Z	"	1,071,115	803	445
			(OP: YO6PZZ)	
IZ3KUY	"	279,282	380	267
VE7SQ	"	162,588	315	204
VK2CA	"	130,152	241	187
S51JS	"	44,100	124	105
6Y1X	"	29,204	112	98
PD1BOX	"	23,920	106	92
JO4CTB	21	78,210	201	158
*F4GDI	A	970,288	725	407
*LX1C	"	540,540	528	315
*CO2IZ	"	384,256	447	304
*PDØDK	"	298,890	395	243
*CO2MS	"	244,860	410	220
*EA5HRT	"	222,640	308	220
*SV2HTI	"	208,980	381	258
*YU1RP	"	182,093	299	211
*LU4VEW	"	149,682	287	202
*IW1FZR	"	146,445	237	195
*PD1EJA	"	112,763	224	181
*CO2OQ	"	105,672	268	148
*UR5ZIW	"	89,176	195	142
*IZ3QCH	"	75,361	163	143
*IN3EJN	"	63,376	166	136
*IK1/DH2SAQ	"	51,350	165	130
*9A6NDZ	"	49,728	133	111
*SQ8KEZ	"	48,026	142	118
*OE2LRO	"	47,082	151	114
*RA3RUF	"	43,320	147	114
*VO1OR	"	43,160	145	104
*IT9BDR	"	40,293	117	111
*RL3QCQ	"	32,301	135	111
*PDØMWG	"	27,720	124	105
*DO1CDE	"	23,941	107	89
*PDØRON	"	19,890	97	85
*2EØRKS	"	17,136	75	68
*DM4JK	"	14,420	75	70
*MØDMJ	"	10,452	71	67
*OM7ANO	"	10,422	70	54
*ON6OM	"	7,176	49	46
*IZ5IOS	"	6,258	47	42
*OH6HZH	"	5,180	38	35
*SP9OHL	"	5,130	47	45
*DB4MZ	"	4,758	41	39
*IZ3TFL	"	2,133	27	27
*DL5AKF	"	494	13	13
*RN4CA	"	480	15	15
*OH6K	28	9,633	65	57
			(OP: OH6FSG)	
*IZØINX	"	3	1	1
*IZ1PKV	"	0	0	0
*IZØUME	21	145,530	284	210
*DO3KMF	"	100,275	223	175
*SQ8KFH	"	27,146	109	98
*RN3DNG	"	26,631	115	99
*SV1MRV	14	19,488	116	87
*IZ7SIA	"	17,112	102	92
*IZ7SLF	7	10,608	53	52

TRIBANDER/SINGLE ELEMENT

United States

WA2ETU	A	2,739,429	1493	693
K4FX	"	1,291,290	1017	473
K9QC	"	1,172,841	1010	501
NO2T	"	1,139,968	984	488
WX6V	"	1,076,850	970	450
KØALT	"	1,065,764	1077	476
NB3R	"	1,050,720	966	480
AC4CA/5	"	997,706	1077	466
W2YE/4	"	979,484	869	452
W6AEA/7	"	937,359	1081	447
K3MD	"	850,522	794	446
W1BYH	"	800,496	755	408
KV1E/Ø	"	768,600	887	427
AA8R	"	759,116	822	404
W6SX	"	656,352	991	344
AE1T	"	625,920	627	384
W4UK	"	620,370	845	366
W6GJB	"	616,308	774	406
WØEM	"	603,470	1010	370
KØCN	"	472,890	658	330
WM9Q	"	466,180	593	326
NA1QP	"	398,246	465	346
			(OP: W1CTN)	
K6EU	"	394,348	582	311
WB9TFH	"	313,536	498	276
W1TO	"	275,044	355	266
KV7DX	"	272,816	611	272
			(OP: AA7V)	
KA1GEU	"	267,288	410	259
N4DW	"	238,832	415	253
KS7S	"	192,114	402	234
K7HP	"	186,369	382	219
KO7X	"	183,183	466	231
WA3AAN	"	177,525	338	225
NC4MI	"	176,300	397	205
NS4X	"	168,696	375	213
KØVG	"	156,699	371	207
W1AJT/4	"	140,322	246	182
			(OP: VE3UTT)	
K7EIQ	"	130,611	301	197
N2SQW	"	129,216	226	192
W2GPS/3	"	106,578	242	191
WA9IVH	"	103,952	281	178
KV1J	"	89,925	266	165
N8AGU	"	81,224	176	143
WA8RPK	"	72,160	237	164
W3UL	"	60,350	206	142
WB9B	"	59,780	168	122
K8CR	"	36,630	168	110
N3IYX	"	26,355	135	105
WB6BFG	"	23,800	104	85
N3NZ	"	21,312	115	96
ACØB	"	19,437	109	93
WA3OFC/4	"	5,136	52	48
KW3A	"	4,370	42	38
WA8HSB/4	"	2,960	42	37
KX9X/1	"	2,660	39	38
NXØX	"	1,624	29	29
KN6DV/1	21	2,253,537	1389	663
W5AP	"	992,970	910	510
NK6A	"	107,590	331	203
WG7X	14	141,840	427	240
W6WRT	7	746,586	770	333
KØPK	"	428,040	536	290
N2EIK	3.5	69,940	235	130
WX3SKY	"	19,866	108	77
			(OP: K3RWN)	
*AB4SF	A	1,003,860	891	429
*KB3LIX	"	623,751	668	353
*NJ1H	"	595,960	687	376
*N2WN/4	"	590,503	631	367
*KM1W	"	486,755	525	335
			(OP: W1UE)	
*WS7V	"	421,120	645	329
*W6SAI/4	"	358,720	590	295
			(OP: K4CWW)	
*KW7N	"	316,394	605	283
*WGØM	"	311,310	566	270
*WT6P/7	"	295,372	543	274
*WB5TUF	"	286,972	497	259
*W6FFH	"	279,936	501	288
*W4PJW	"	272,837	489	251
*AJ4A	"	266,418	357	246
*WB8TLI	"	261,214	367	262
*KK8MM	"	259,435	439	265
*K7GS	"	252,566	494	293
*AD1C/Ø	"	251,328	466	272
*K4FPF	"	236,697	357	257
*KA9MOM	"	221,358	429	237
*WA1LWS/3	"	182,040	344	222
*KI6QDH	"	177,410	415	226
*N3WD	"	172,144	372	212
*KIØJ	"	166,057	381	211
*K2EN	"	160,746	379	219
*N3ALN	"	149,968	340	206
*K9JU	"	145,950	286	210
*AI4GR	"	140,532	307	196
*WTØO	"	133,455	361	217
			(OP: KØTI)	
*N9TF	"	130,845	261	195
*N2MUN	"	130,398	284	211
*K1VU	"	124,800	312	195
*N6VH	"	118,125	305	175
*W8HY	"	116,375	301	175
*AD7MQ	"	115,639	281	197
*KC5FP	"	102,949	296	191
*NØOK	"	98,943	272	177
*KE6QR	"	97,344	309	169
*K4FTO	"	95,312	283	161
*KK5JY	"	94,860	308	180
*KS2G	"	94,458	257	182
*W9LHG	"	79,210	239	178
*N5IE/9	"	55,572	208	132
*W3AG	"	49,268	140	109
*NX8G/5	"	49,140	210	135
			(OP: NX8G/5)	
*K8QH	"	48,216	169	123
*ABØYM	"	46,494	205	126
*K6UM/7	"	44,286	168	121
*KB2NB	"	38,368	145	109
*NF4A	"	38,148	137	102
*KK6TV	"	35,840	149	112
*N6BHX	"	33,480	165	108
*NØHJZ	"	32,249	177	119
*K6WSC/7	"	30,690	129	110
*NA4X	"	29,280	135	96
*AD1L	"	26,016	109	96
*K4EDI	"	20,608	107	92
*WW8OH	"	20,580	97	84
*AA5JG	"	20,152	108	88
*KA4OTB	"	19,046	120	89
*N8WS	"	15,385	103	85
*N2SO	"	14,504	88	74
*N5RMS	"	14,240	100	80
*KCØDEB	"	13,532	75	68
*KM6I	"	13,054	84	61
*KI4SP	"	11,850	97	75
*KT4Q	"	8,673	70	59
*AA9UF	"	8,600	51	50
*KD8D	"	7,923	62	57
*KT4CB	"	7,070	80	70
*AF8C	"	6,496	72	58
*WB2TPS	"	4,218	40	37
*KD6AKC/4	"	3,520	46	44
*WB8JUI	28	7,370	71	55
*KD5JHE	"	5,104	61	44
*N2YBB	21	294,512	416	316
*KB9S	"	22,790	131	106
*AA4U	"	260	10	10
*W1ZD/7	14	315,595	560	355
*K8SM	7	407,824	458	284
*AB1J	"	261,954	389	231
*W3NR/4	"	20,382	114	79
*N2AET	3.5	32,040	142	90

DX

ST2AR	A	4,219,919	1876	671
DL4MCF	"	4,113,044	1616	724
GW4SKA	"	3,239,328	1553	656
DD2ML	"	3,091,200	1527	640
YL9T	"	2,385,600	1341	568
			(OP: YL2TW)	
UP4L	"	2,002,505	1207	535
			(OP: UN7LZ)	
VE3EK	"	1,902,852	1176	567
GM8SBH	"	1,867,635	1095	539
			(OP: GMØFGI)	
VE2FXL	"	1,801,086	1087	518
IK2SND	"	1,709,325	1028	535
MMØGPZ	"	1,524,593	988	503
EI2GLB	"	1,503,872	1006	496
SM6NOC	"	1,416,020	989	505
F1RHS	"	1,330,155	958	501
DL1NEO	"	1,228,439	813	443
JE1LFX	"	1,183,428	853	463
UA9TF	"	1,138,228	873	413
DK1KC	"	1,097,790	798	430
UAØSR	"	982,114	801	413
EV1R	"	973,263	727	439
SMØBSO	"	949,968	761	432
SM5D	"	935,066	687	418
			(OP: SM5DJZ)	
EA9LZ/7	"	896,235	888	401
IK3PQG	"	807,880	673	380
DF2TT	"	769,824	662	396
LA9DFA	"	745,125	601	375
IN3JJI	"	706,275	606	365
SM5EPO	"	682,104	623	388
F6IIT	"	668,160	626	384
4Z5KU	"	564,436	479	292
RA3TT	"	555,170	591	385
DF5BX	"	549,186	526	314
RXØAE	"	482,816	548	328
OH8KVA	"	467,283	492	327
R3VA	"	466,302	502	327
9A2Ø2JK	"	466,014	486	303
			(OP: 9A2JK)	
OU4O	"	460,660	465	310
EB7CIN	"	424,612	503	302
UR4EI	"	419,964	491	316
CE3FZ	"	409,578	522	267
F5CQ	"	386,295	417	283
XR3P	"	374,975	467	283
			(OP: CE3PG)	
VE3MV	"	371,448	514	252
ED1A	"	308,195	401	265
			(OP: EA1AST)	
UT5UKY	"	295,668	401	258
JO4CFV	"	239,232	396	224
UA6AA	"	222,950	354	245
IV3JCC	"	220,946	327	242
UX8ZA	"	219,350	354	214
JA1IZZ	"	217,782	330	222
DF6RI	"	210,367	304	211
UN9PQ	"	198,182	289	197
DJ3IW	"	177,670	219	218
HAØHW	"	157,192	293	196
JN3SAC	"	148,213	262	169
VA3PC	"	135,072	234	201
PY7ZY	"	123,291	245	171
JA7VEI	"	116,406	223	174
RV1CC	"	113,399	214	169
I5JFG	"	95,550	206	175
DL1OLI	"	90,117	193	153
EA3BD	"	87,934	191	154
G3XTT	"	84,597	192	163
IZ3NVR	"	77,265	207	153
G7VRK	"	74,166	161	141
JA1QZC	"	65,330	172	139
DL6OCM	"	57,564	154	123
DL2MDU	"	57,540	160	140
JE1HRC	"	46,920	154	120

SV3GKU	"	44,577	144	117
RV3DCZ	"	22,356	112	92
R7LP	"	22,327	89	83
8SØC	"	20,592	92	88
		(OP: SMØMPV)		
LU1BJW	"	20,202	84	74
YO5CUQ	"	19,345	84	73
UAØSBQ	"	13,124	79	68
LU6QI	"	8,957	60	53
G6CSY	"	8,428	49	49
YO2DFA	"	7,367	56	53
JA9LJS	"	2,976	33	31
I2SVA	"	630	15	15
ED5J	28	24,252	105	94
		(OP: EA5DM)		
UZ5Q	"	270	11	10
		(OP: UY5QZ)		
UN4PG	21	1,057,464	873	456
DL3BQA	"	727,818	674	403
VY2LI	"	711,552	703	408
G6NHU	"	699,540	682	393
JA9CWJ	"	567,000	546	375
YO3VU	"	448,825	558	325
XE1EE	"	355,880	507	310
UA6LJB	"	272,060	411	305
RA9UN	"	220,575	353	255
UA9FGJ	"	140,713	292	223
JA1BPA	"	20,520	102	72
IZ2QKG	"	19,422	102	83
IT9MUO	14	737,100	748	455
RW4WZ	"	160,064	313	244
JHØNOS	"	142,003	238	211
S57YK	"	139,216	293	226
JR1BAS	"	125,600	234	200
HI8PJP	"	107,334	287	178
YO5OHY	"	94,392	230	184
S51CK	7	1,617,414	801	471
VY2SS	"	498,688	438	256
EW4MM	"	422,408	381	266
OK8WW	"	134,596	198	161
RM5P	"	37,668	107	86
HA3LI	3.5	936,768	668	357
*ZX2B	A	3,548,440	1601	665
		(OP: PY2MNL)		
*7Z1SJ	"	2,288,608	1189	544
*DL9YAJ	"	1,997,056	1062	538
*ON4CT	"	1,911,576	1038	552
*HI8PLE/7	"	1,795,311	1242	531
		(OP: HI8PLE/7)		
*DL1QW	"	1,623,392	970	523
*S56A	"	1,504,256	932	512
*DL1YD	"	1,363,998	860	491
*US4LPY	"	1,349,865	1050	505
*UR4U	"	1,328,040	867	465
		(OP: UR4UDI)		
*5K3R	"	1,262,456	881	398
		(OP: HK3R)		
*EC8CQ	"	1,190,748	915	442
*EA1WW	"	1,161,105	855	465
*DL6NDW	"	917,730	723	405
*OK1VRF	"	883,575	691	385
*JI1RAK	"	872,256	727	413
*RO1B	"	847,012	763	428
*HZ1PS	"	844,022	636	397
*DJ4MH	"	835,016	686	364
*ON5GQ	"	831,734	702	394
*VE2AXO	"	828,704	740	376
*EA1EA	"	822,800	655	374
*UX1IL	"	821,541	755	399
*IK5AMB	"	766,292	604	382
*IK3ORD	"	740,916	660	396
*5C2P	"	736,205	685	365
*SQ8JX	"	708,935	601	355
*OK2CLW	"	704,103	562	339
*JP1QDH	"	665,260	630	370
*PA3DBS	"	651,807	617	351
*UN7TDB	"	620,662	536	301
*KL8DX	"	614,570	728	370
*VE2EBK	"	603,480	618	321
*DL6SFR	"	583,416	548	333
*IV3BCA	"	582,330	547	354
*IK2YSJ	"	581,544	549	328
*UT3RS	"	563,801	540	337
*VE3JI	"	556,742	540	331
*OG8T	"	553,161	584	371
*UY3MW	"	513,670	561	310
*JA6DIJ	"	467,520	513	320
*VE6SQ	"	464,400	642	270
*RA9FRD	"	462,859	561	323
*DA9L	"	460,416	490	327
		(OP: DO1BEN)		
*IZ2GRG	"	459,483	490	309
*R2LA	"	458,415	515	305
*OP4A	"	446,682	447	327
*F8CRS	"	429,135	417	305
*US7IA	"	381,072	453	272
*VE3DZ	"	368,072	441	278
*IZ4AFW	"	361,767	455	321
*7N2UQC	"	350,460	455	270
*R3BB	"	345,117	486	303
*UX3IW	"	338,212	374	257
*LY2TS	"	327,010	413	265
*IK3QAR	"	299,880	378	252
*VE7BSM	"	284,664	529	232
*LY2SA	"	282,978	343	237
*HA8XF	"	281,820	394	231
*RK9AK	"	254,380	330	230
*S51DX	"	253,559	293	227
*JE1SGH	"	246,240	382	240
*S51JQ	"	240,792	350	237
*VA3MJR	"	240,118	375	211
*JHØNEC	"	240,084	361	247
*E73PY	"	238,160	346	229
*LY5D	"	235,620	329	220
*DL6ZBN	"	230,175	313	225
*EW7LE	"	228,160	363	248
*Z35X	"	220,818	308	247
*HA5VZ	"	211,345	309	215
*LU8DCF	"	203,090	324	230
*RK9AN	"	201,144	299	204
*IK4CLF	"	200,970	264	203
*JF3NKA	"	185,736	294	218
*UR3AC	"	178,602	305	206
*IK4ZHH	"	174,932	296	202
*DL6NWA	"	171,754	315	211
*IK7RVY	"	168,181	305	221
*DL5GAC	"	167,256	304	202
*JA1BWA	"	153,797	299	173
*PD2JAM	"	153,527	235	187
*IK5VQK	"	152,460	287	210
*VE3RCN	"	152,256	287	183
*OK1PMA	"	144,192	218	192
*DJ2AX	"	141,290	247	199
*DL4JYT	"	140,094	249	181
*RA3GZ	"	137,578	307	217
*JA1MZM	"	137,085	267	195
*JA1XRH	"	121,792	238	173
*IØZUT	"	119,035	224	179
*EA1JO	"	114,739	236	179
*RL6LP	"	108,016	232	172
*XE2AU	"	101,108	254	157
*UT4UQ	"	99,699	227	167
*RXØSC	"	98,210	213	161
*WP3GW	"	85,848	179	147
*IQ4FA	"	83,860	193	140
			(OP: I4JEE)	
*F6DKQ	"	72,816	177	148
*DLØLG	"	67,584	167	128
			(OP: DF6HZ)	
*R5ACQ	"	67,496	200	143
*OM7YC	"	67,014	165	146
*7K4VPV	"	64,719	171	141
*IZ8DVD	"	57,477	138	119
*RU3VV	"	53,802	155	126
*DL1MDZ	"	47,619	141	117
*SFØD	"	47,064	131	106
			(OP: SMØDSF)	
*VU2PTT	"	45,864	144	117
*EA3FLS	"	45,292	158	134
*DF4WC	"	45,140	148	122
*IK7WPD	"	44,118	134	114
*JA1AZR	"	42,984	141	108
*JN1MSO	"	42,718	146	106
*IK7NXU	"	41,000	135	100
*DL5ZBA	"	40,182	141	111
*SP3BAY	"	39,675	133	115
*DL5ASK	"	38,913	121	109
*IZ5CMG	"	38,913	134	119
*JJ1KZZ	"	35,048	122	104
*UA4LU	"	34,662	143	106
*SE5S	"	33,280	125	104
*IK2ANI	"	31,790	124	110
*JE4MHL	"	31,584	123	94
*JA3HBF	"	30,096	102	88
*JI1LAT	"	29,694	114	98
*EB3JT	"	28,925	105	89
*S57S	"	27,234	99	89
*DL8ZAJ	"	25,696	98	88
*G4OGB	"	25,146	110	99
*ON5HY	"	23,848	102	88
*PY5TJ	"	22,050	101	90
*PA7PTT	"	21,760	100	80
*VK4BL	"	20,898	94	81
*PDØWR	"	20,739	105	93
*IZ2MHT	"	20,150	75	65
*YO2LSP	"	19,929	77	73
*IK2GPQ	"	17,136	99	84
*CX8AF	"	15,960	83	70
*XE1HJL	"	14,912	78	64
*HB9CXK	"	12,480	70	60
*IZ1QXW	"	12,075	75	69
*UR5LAK	"	11,594	65	62
*EB2RA	"	11,440	66	55
*GØRJL	"	11,392	69	64
*G3VAO	"	11,352	71	66

Khrystyne K1SFA at the K1TTT superstation where she and Mike K1MK set the new North America MS record.

*RK3BA	"	9,381	69	53
*JP1HUJ	"	8,235	52	45
*LY2N	"	7,849	49	47
*HL5YI	"	7,304	55	44
*SQ8GUM	"	6,840	46	45
*DK3WW	"	6,204	50	44
*G3VQO	"	6,032	53	52
*UA4SBZ	"	5,936	54	53
*7M4OOS	"	5,850	54	45
*JK3GWT	"	5,117	49	43
*JP1GVC	"	4,914	48	42
*IW3SAR	"	4,480	43	40
*IK2IKW	"	4,365	47	45
*IØYQV	"	3,630	37	33
*VU2ABS	"	2,727	31	27
*JE8KKX	"	2,666	33	31
*EA5TT	"	2,418	28	26
*DL1CW	"	1,239	21	21
*IW2NRI	"	1,225	26	25
*DF6YC	"	1,155	23	21
*IK5AFJ	"	954	19	18
*IV3XPP	"	576	13	12
*ZM3T	28	94,237	224	143
			(OP: W3SE)	
*XQ7UP	"	78,048	194	144
*TG9AJR	"	55,806	193	131
*EA3NO	"	40,600	135	116
*YT2B	"	27,416	111	92
*UN5J	"	20,592	95	78
*PAØMIR	"	9,504	63	54
*VE7BC	"	7,685	70	53
*LU9EHU	"	5,152	54	46
*EA4AFP	"	3,952	39	38
*IZØFZM	"	1,218	23	21
*CT1EEK	21	635,091	658	417
*JH8SIT	"	235,176	345	246
*VE1OP	"	102,680	211	170
*OK2QX	"	87,156	210	162
*RX3AGQ	"	81,144	220	168
*R2SA	"	38,918	140	122
*OE1ZKC	"	20,160	95	80
			(OP: JH4RHF)	
*JE2BOM	"	3,774	39	37
*JE1GZB	"	752	17	16
*EA1OS	14	1,013,460	890	508
*YT5W	"	774,367	776	451
			(OP: YT2PFR)	
*IW9FDD	"	432,525	536	365
*VE3IAE	"	266,760	401	285
*Z31MM	"	197,316	389	252
*MMØDWF	"	155,335	308	235
*EX8AI	"	79,464	196	154
*3V8SS	"	75,320	182	140
			(OP: KF5EYY)	
*YO5OLD	"	72,522	215	158

*YV4BCD	"	70,500	181	141
*HA5KN	"	51,520	175	140
*JR4GPA	"	37,468	128	116
*CP1FF	"	8,990	65	62
*PY2UN	"	5,612	48	46
*IZ5MMB	"	1,968	28	24
*YU1AST	7	1,395,450	747	443
			(OP: YU2A)	
*OK2RU	"	957,584	592	388
*IW4EGX	"	943,714	589	389
*DL5KUD	"	721,050	541	345
*EU1AZ	"	569,160	439	306
*UW2F	"	354,000	346	250
			(OP: UTØFT)	
*LA8OKA	"	85,008	154	132
*VE3YF	"	80,640	135	120
*YC2WBF	"	25,024	70	68
*JA6FGC	"	3,618	29	27
*UZ2HZ	3.5	577,574	478	317
*SP5ECC	"	277,300	303	235
*IKØXBX	"	129,368	211	157
*RV6LCI	"	100,426	188	149
*UT2HM	"	80,920	171	140
*DL2SAX	"	61,272	154	111
*DJ1MM	"	49,434	129	107
*VE3MGY	"	33,372	110	81

MULTI-OPERATOR SINGLE TRANSMITTER NORTH AMERICA

United States

K1SFA	6,257,608	2401	853
WW4LL	4,689,548	2104	797
NAØCW	3,988,480	2109	760
ND2T/6	3,241,841	1860	673
W3MF	2,412,319	1277	637
WY7SS	2,139,930	1943	585
KQ6ES	1,946,700	1665	540
N1MGO	1,444,896	1241	519
KE1B/6	1,342,152	1278	504
WX7P	1,175,116	1243	482
K4MM	1,160,160	979	480
N2FF	654,515	600	395
WS5J	648,852	981	389
W6DR	442,795	784	295
KA4PKB	435,845	690	305
N4WW	278,334	417	282
KI4UDF	251,370	410	270
WM6A	233,100	519	252
KU5Z	173,964	439	218
N3RN	151,902	290	194
KØTV/1	122,880	207	160
W4CDA	9,796	94	62
N5HR	5,481	72	63
W9CF/7	3,496	44	38

Alaska

KL7IWC	681,996	877	322

Bahamas

C6ANM	1,418,008	1117	491

Canada

VE3FJB	3,400,700	1552	620
VE6AO	2,012,526	1732	486

Puerto Rico

WP4WW	1,238,419	1127	439

AFRICA

Morocco

5D5A	15,579,564	3859	1001

ASIA

Asiatic Russia

RT9J	3,216,714	1492	582
UA9CDV	2,862,423	1442	571

China

BD5DML	14,976	90	72
BY4RWT	7,738	63	53

EUROPE

Belgium

ON4ANL	767,750	657	370

Croatia

9A206B	2,766,818	1264	646
9A			
9A7B	4,576	45	44
9A			

Czech Republic

OK1KSL	4,594,366	1858	749
OK2RVM	921,011	735	377

England

G5D	2,851,188	1432	636

European Russia

RK3DXW	2,747,760	1567	642
RC4HAA	543,360	584	320
RT4F	404,300	548	325

Finland

OH8X	6,815,487	2551	867
OH8F	1,504,854	1079	531
OH2K	104,412	232	154

Germany

DJ6QT	5,664,362	2009	803
DL0ER	1,384,188	920	467

Greece

SZ1A	3,100,103	1703	631

Hungary

HG5C	355,680	421	288

Italy

IV3RAV	5,368,485	1964	773
IQ2LS	1,170,228	829	452
IQ7DV	169,857	343	243

Latvia

YL4U	6,675,680	2337	880

Lithuania

LY2BUU	956,734	738	383

Luxembourg

LX0RL	27,550	109	95

Netherlands

PI4Z	2,046,044	1091	539

Norway

LA1K	3,751	33	31

Poland

HF3A	4,386,564	1749	721

Scotland

GM7R	307,475	357	245

Sicily

IT9HBT	3,048,858	1603	642

Slovak Republic

OM3KFF	7,098,826	2342	833
OM3KWZ	2,034,395	1133	517
OM3RRC	1,663,620	1003	510

Slovenia

S51A	7,069,062	2335	858

Spain

ED1R	9,873,600	2989	968
ED2V	3,072,339	1541	631
ED2Y	2,969,220	1543	615
EE2K	2,777,555	1456	605
EE7T	2,750,484	1633	622
EA1SA	734,808	681	408

Ukraine

UT7E	2,488,260	1480	565
UR4PWC	2,336	35	32

OCEANIA

New Zealand

ZL1/K6YL	3,740	42	34

SOUTH AMERICA

Argentina

LV6D	772,160	711	380

Brazil

ZV2K	1,376,630	903	505

Uruguay

CV5K	1,640,496	1121	478

MULTI-OPERATOR TWO TRANSMITTER NORTH AMERICA

United States

NG1G	6,963,268	2900	884
WQ2N	929,187	873	441
WB8SKP/4	319,600	609	272
KF5HHD	4,692,510	3001	765
KU6W	1,517,880	1400	520
K9XD	3,906,750	2271	750

Belize

V31RU	4,435,200	2286	616

Canada

VB7R	6,002,346	3010	723

ASIA

Asiatic Russia

RWØA	10,232,432	3295	824

China

BD1QXU	861,924	723	372
BA2IB	33,734	155	101

Japan

JA6ZPR	3,378,375	1661	693

EUROPE

France

F4ERS	10,025,586	3187	954

Germany

DLØCS	8,145,040	2810	904

Hungary

HG1S	12,643,928	3541	1012

Norway

LN5O	6,535,749	2472	869

Poland

SN2B	8,061,808	2740	856

Slovenia

S55W	9,245,580	3039	892

Spain

EA2RCF	3,512,709	1745	643

SOUTH AMERICA

Argentina

LS1D	9,784,614	3264	966

MULTI-OPERATOR MULTI-TRANSMITTER NORTH AMERICA

United States

NR4M	13,448,106	4646	1062
AK7AZ	1,439,152	1654	481

Canada

VE7UF	7,584,460	3329	806

ASIA

Asiatic Russia

UI9I	644,688	576	333

EUROPE

Croatia

9A1A	22,856,592	5658	1168

Finland

OH6R	10,278,215	3330	965

Germany

DL1DVE	6,733,432	2421	844

CHECK LOGS

4Z1TL, 9A4WY, AB2NI, AB9QT, AD7VB, AE8S, AKØTF, BA4SCP, BG6IF, CM2ORO, CM2RVA, CO3CJ, CS2P, CU2JT, DB5PJ, DF6QP, DF7XH, DF8UO, DG1ELG, DG2US, DG8JA, DH2PL, DJ0GD, DJ3AA, DJ4LK, DJ4XR, DK5AN, DK9MS, DL1ASA, DL1TPY, DL2BQV, DL5MK, DL6OAA, DL6UAM, DL8DXF, DL8MBS, DL9GTI, DL9HK, DM5DX, DM5GI, DU7RH, E72U, E77M, EA1EVR, EA1EWY, EA2AVM, EA3NP, EA4FSC, EA4RE, EA7AHA, EA7HHV, EA7HYL, EB1DMQ, ED5D, ED8K, EF7P, F4FVW, F4TNK, F6BFH, F8BJI, G1WEV, G3KMQ, G3MXH, G3PHO, G4AXX, G4AYU, G4RGK, G4YRR, G4ZOY, G7MJX, GDØTEP, GMØKWW, GM1BSG, GM4JR, HA1SN, HA2EOA, HA7LJ, HA7PF, HB9AGH, HB9AMQ, HB9DNF, HB9EVC, HB9EVI, HB9ZZ, HF8E, IØMOM, IK0VVG, IK1MDF, IK2FDV, IK2FIL, IK2LFF, IK2OHG, IK2WZD, IK6BSN, IK7HTB, ISØBOY, IW1QN, IW6ASD, IZ3EOU, IZ4DZD, IZ7EUB, JA1RTX, JA2WBE, JA3OOK, JA4OPW, JA5INF, JA6GXP, JE1ZWT, JE2SOY, JE3WHT, JE4FNC, JF2WXS, JG8IBY, JHØIXE, JH1KIM, JH3GMI, JH7WQX, JJ1FDS, JK3VTD, JK7UST, JL3RPD, KØIDT, K1NJ, K3PH, K3SX, K3WC, K4JAF, K4LSX, K5OA, K5OVT, K6ELE, K6MKF, K8JRK, K8VE, K8ZT, K9EL, K9ZXO, KA3PVA, KA8POZ, KB1GKN, KB1TBU, KB1UUB, KB8RTB, KC2JKU, KC9RIQ, KD3RF, KD4W, KD7LRK, KE5LLM, KE7XM, KF7IUH, KG9Z, KH6SAT, KIØKB, KK7UQ, KO7P, KS4MLS, LA4NL, LA7IJA, LA9FFA, LU4HW, LU8FAU, LX1EA, MØCAR, MØMDR, M0WAY, M1DNC, N0AS, NØTOP, NØUV, N1HO, N1IA, N1UK, N1WQ, N3IZ, N3KN, N3QXC, N4BU, N4CB, N4MIO, N5PYQ, N6RRY, N6RV, N7BPA, N7US, N8MDP, N9FTC, N9OQW, NA7RH, NC8T, NK7Z, NS3X, NT4TS, NY3Z, OE2DYL, OH1HF, OH6JKW, OK1AVY, OK1ZE, OK2BHD, OK2PAY, OK2SG, OK2ZO, OK8DCC, OM3RM, OM5CD, OM5NL, ON3NT, ON5UN, ON7MIC, OO9O, OZ1AXG, PAØAWH, PAØBWL, PAØRRA, PA2WO, PA3EBP, PA3FOE, PC1MB, PDØMHZ, PD0ROC, PE4BAS, PU1MMZ, PV8CQ, PV8DX, PY2EB, R3AT, R7NK, RAØCHK, RAØJBL, RA3FD, RA3FH, RA3THN, RA9LT, RA9MX, RN3RQ, RW3QM, RZ3EC, RZ6DX, RZ6LV, S51MA, S54ØDKR, S57OWA, S58Q, SM1TDE, SM4EMO, SN4F, SP1MWK, SP2IW, SP2YRY, SP3CGK, SP3S, SP3UY, SP4GDC, SP5BUJ, SP6FJ, SP7HOV, SP7MFR, SP7PFD, SV1HFY, T88TW, TI2/NA7U, UA1AJW, UA4ANZ, UN7ECA, UROIQ, UR5CJN, UR5UDX, US1UX, UTØEL, UT3UA, UT5ULB, UX1UF, UY8IF, VA3DF, VA3NQ, VA3VU, VA6XDX, VE3EY, VE3LVW, VK7XX, WØBBI, WØGLB, WØHDC, WØKIT, W1CRO, W1JR, W2HDI, W3SA, W4DKR, W5IFP, W5LE, W6DMT, W6KY, W6LED, W7ESE, W7SYK, W8IJ, W8QZA, WA2EQF, WA2TVS, WA3WZR, WA5LIS, WA8Y, WB2COY, WB2RYV, WB3EMH, WB5JJJ, WC7V, WD8ANZ, WN8GXX, WO6M, WR4K, WS7L, WV9E, WYØV, XV3AA, YB9/OK2DW, YO4BTB, YO6CFB, YO8RAA, YO9CB, YV5OIE, YW5W, ZF2LC, ZL1ANH, ZL3GA, ZL4PW, ZS6RJ.

Announcements

(continued from p. 10)

PEOTONE, ILLINOIS — Kankakee Area Radio Society Karsfest 2012 July 22 at the Will County Fairgrounds, Peotone Exit 327 (East) off Interstate 57. Contact: Craig Cahan, N9FD, 7 Franklin Drive, Manteo, IL 60950. E-mail: <karsfest@gmail.com>; <http://www.w9az.com>. (Talk-in 146.94- [PL 107.2]; exams)

VAN WERT, OHIO — Van Wert Amateur Radio Club 25th Annual Van Wert Hamfest July 22 at the Van Wert County Fairgrounds. Contact: Louis Thomas, WD8LLO, (419) 238-2812;. <http://www.w8fy.org/hamfest. html>. (Talk-in 146.850)

WEST FRIENDSHIP, MARYLAND — Baltimore Radio Amateur Television Society Maryland Hamfest and Computer Fest July 22 at the Howard County Fairgrounds, 2210 Howard County Fair Road. Contact: BRATS, P.O. Box 5915, Baltimore, MD 21282; e-mail: <hamfest@bratsatv.org>; <http://www.bratsatv.org>. (Exams, pre-registration required by calling 301-572-5124 between 6 and 9 p.m.)

OKLAHOMA CITY, OKLAHOMA — Central Oklahoma Radio Amateurs Ham Holiday 2012 at the Biltmore Hotel/Conference Center. Information: CORA website: <www.HamHoliday.org>. (Talk-in 146.925– offset PL 141.3; exams)

COLFAX, WASHINGTON — Kamiak Butte Amateur Repeater Association Camp Out & Annual Meeting July 27–29 at the Boyer Park & Marina. Contact: Betsy, N7WRQ, (509) 448-5821; e-mail: <n7wrq@aol.com>. (Talk-in 146.74– or 146.520 simplex)

CLEAR LAKE, SOUTH DAKOTA — Deuel County Amateur Radio Club Hamfest 2012 July 28 at the city park in Clear Lake. Contact: Deuel County ARC, P.O. Box 427, Clear Lake, SD 57226; e-mail: <dcarc@w0gc.org>; <http://www.w0gc.org>. (Talk-in 444.950 [PL 136.5] or 444.300 [PL 136.5]; exams)

OKLAHOMA CITY, OKLAHOMA — Central Oklahoma Radio Amateurs, **Inc**. **Ham Holiday 2012** July 27–28 at the Biltmore Hotel and Conference Center, 401 South Meridian Avenue. E-mail: <vicepresident@hamholiday.org>; <http://www.HamHoliday.org>. (Talk-in 146.925– [PL 141.3]; exams)

WAYNESVILLE, NORTH CAROLINA — Western Carolina Amateur Radio Society Hamfest July 28 at the Haywood County Fairgrounds. Contact: WCARS, P.O. Box 1488, Asheville, NC 28802; (828) 298-6685; <http://www.wcars.org>. (Talk-in 146.910- [PL 91.5)] or 147.390+ [PL 94.8]; exams)

ANGOLA, INDIANA — Land of Lakes Amateur Radio Club Angola Hamfest August 4 at the Steuben County 4-H Fairgrounds. Contact Sharon Brown, WD9DSP, (260) 475-5897. (Talk-in 147.18+ [PL 131.8]).

COLUMBUS, OHIO — Voice of Aladdin Amateur Radio Club, **W8FEZ & Ohio Section-ARRL Columbus Hamfest & ARRL Ohio State Convention** August 4 at the Aladdin Shrine Center, 3850 Stelzer Road. Website: <http://www.aladdinshrine.org/fraternal/hamfest.php> or <http://arrl-ohio.org>. (Talk-in 146.970 [PL 123.0]; exams)

TRUMANSBURG, NEW YORK — Tompkins County Amateur Radio Association Ithaca Hamfest 2012 August 4 at the Trumansburg Fairgrounds. Contact: Bill Klinko, KC2OYN, (607) 738-4694. E-mail: <whk2@cornell.edu>. (Talk-in 146.97- [PL 103.5]; exams)

PEOTONE, ILLINOIS — Hamfesters Amateur Radio Club 78th Annual Hamfest August 5 at the Will County Fairgrounds. Contact Kerry Nelson, AA9SB, (708) 335-4574; e-mail: <kw_nelson@earthlink.net>; <http://bit.ly/J0dEHK>. (Talk-in 146.52 simplex; exams)

PORTLAND, OREGON — Willamette Valley DX Club 2012 Pacific Northwest DX Convention fAugust 3–5 at the Monarch Hotel and Conference Center. Contact Al Rovner, K7AR, <k7ar@arrl.net>; <http://www.wvdxc.org/dxconvention>.

BERRYVILLE, VA — Shenandoah Valley Amateur Radio Club 62nd Annual Berryville Hamfest and Computer Show August 5 at the Clarke County Ruritan Fairgrounds. Contact: Dave Adsit, (540) 303-7055. Email: <hamfest2012@comcast.net>; <http://www.w4rkc.org/hamfest>. (Talk-in 146.82-; exams, noon registration)

QUINCY, ILLINOIS — Western Illinois Amateur Radio Club Ham Radio and Computer Swapfest August 11 at the Eagles Alps, 3737 North 5th Street. Contact: Danny Pease, (217) 430-2046; e-mail: <ng9r@arrl.net>; <http://www.w9awe.org>. (Talk-in 147.030 +600 [CTCSS 103.5]; exams)

SAINT ALBANS, VERMONT — Saint Albans Amateur Radio Club STARC 2012 Summer Hamfest August 11 at the Veterans of Foreign Wars – Post 758, 353 Lake Street. (Exams, Tech only)

ADAMS, MASSACHUSETTS — Northern Berkshire Amateur Radio Club NoBARC Hamfest August 12 at Bowe Field in the Adams Agricultural Fair Grounds off Route 8. E-mail: <hamfest@nobarc.org>. (Talk-in 146.910 [PL 162.2]; exams 9 a.m.)

*Please submit hamfest and special event announcements **at least three months in advance** by e-mail to <hamfest@cq-amateur-radio.com> or <specialevent@cq-amateur-radio.com>, or by postal mail to: CQ Magazine, Attn: Hamfests (or Special Events), 25 Newbridge Rd., Hicksville, NY 11801.*