

Results, 1992 ARRL 10-Meter Contest

Is 10 meters closed for this sunspot cycle? No way!

By Billy Lunt, KR1R and Warren C. Stankiewicz, NF1J
Contest Manager Assistant Contest Manager

Since we had started to slide down the backside of sunspot cycle 21, contest conditions weren't expected to be good, especially on 10 meters. Nevertheless, the band jumped to life at the start of the contest and conditions remained exceptional straight through to the end. Although band openings seemed to be shorter than they did last year—opening about an hour after sunrise and closing an hour before sunset—when the band was open, it was hot! This is evident by the number of QSOs and multipliers worked by almost everyone. We'd been blessed by the propagation gods for at least one more exciting contest weekend!

The only major diminishing factor was the weather. The northeastern US and eastern Canada were hit hard on the contest weekend with a major snowstorm that crippled many stations. In the aftermath of the storm, countless competitors scrambled to repair broken and downed antennas and feed lines, trying to recoup their losses in time for the contest. Others gave up in disgust and sat this one out.

Those who gave it a shot had an enjoyable time. Almost everyone was pleasantly surprised at how effective their stations could be on 10 meters at this point in the sunspot cycle. QRP operators showed the most amazement with their accomplish-

ments. It doesn't take a big station to do well on 10 meters when the band is good. Contesters with average stations can be competitive in the 10-Meter Contest.

There are interesting comparisons that can be made to help you plan next year's contest strategy. During this year's contest, the West Coast stations had good openings to Japan from 2300-0130Z. These openings helped supply them with large QSO totals. On the other hand, European openings were short in duration, with most stations logging the majority of these QSOs from 1600-1700Z. The East Coast enjoyed longer openings to Europe that lasted for five hours Saturday morning, and for another four hours Sunday morning. Many European stations were able to work Japan until 0400Z each night, remarkable for that time of the day. Part of being a successful competitor is knowing where the band is open to at various times during the day. When planning your strategy for next year, listen around the band for a few days prior to the contest. This can give you a good idea of what to expect for band openings and how long they might last.

This year's contest saw close finishes in the standings. Look over the Top 10 boxes and the score listings. Only a few QSOs separate the top entries. The total number of entries in the 10-Meter Contest is down only

slightly from last year. This is a good sign that interest in the contest should remain high through the coming years. HQ received 1935 entries, with 709 DX, 1136 W/VE logs and 90 checklogs. Kudos to the 18 Novices and 109 Technicians who sent in entries. Four Technicians made the Top 10 boxes this year, an impressive achievement. Great going!

This year's extensive effort by the ARRL Contest Branch to crosscheck the top-scoring contest logs uncovered very few errors. Either more people are taking the time to be certain that they are copying call signs and exchanges correctly, or logging software is getting better. Let's hope it's the former and that people's ability to copy and exchange information is improving. If you were one of the top-scoring stations and you lost relatively few QSOs during the cross checking process, you can give yourself a pat on the back for a job well done.

One thing for certain is that the contest logging software is getting better. With computers generating CW and now even "phone," it's easier to tune in and copy those signals. Not to mention the ease it places on the operators: no more raspy, hoarse voices or sloppily sent CW due to stress and fatigue. Operators can leave the menial tasks of logging, duping and marking multipliers to the computer and focus their



The ops at VE3DC (l-r), VE3VMO, VE3VFR, VE3LMS, VE3OZY and VE3OCY, reported having a good time, except for the first four hours of the contest that they spent shoveling snow.



Chuck, N7MZW, operated from the Lincoln Monument (elevation 9300 feet) on Interstate 80. He says, "Sleeping in the car during a snowstorm and 6° temperatures wasn't too bad, but having to be rescued by a snowplow after the contest was embarrassing."

Top 10, W/VE

Mixed Mode

High Power

W5WMU	1,582,168
(KZ5D,op)	
K3ZO	1,567,746
KI3L	1,293,320
W7RM	1,270,608
(AA7NX,op)	
K5NW	1,267,660
WD0T	1,260,534
W1FEA	1,201,088
K2WK	1,149,064
W9UP	1,123,300
(N0BSH,op)	
W9XT	1,096,836

QRP

NY3Y	99,440
W6AXX	75,384
N7RWH	60,888
W6CN	41,396
N2PNG	38,624
N8NAH	36,960
KA6TVL/T	34,980
WB0IWG/T	23,424
KC4ZAL	18,980
KB2KRP/T	18,018

CW Only

High Power

NX1H	1,063,296
KB0G	787,360
N8RR	776,748
NJ1T	754,036
AD5Q	738,316
W4XJ	706,352
WD8LLD	660,584
W3GH	597,132
AA6TT	584,004
N6TV	557,232

Low Power

N4ZZ	682,560
WC4E	542,700
NW1S	511,056
WD4AHZ	449,280
NY3G	407,040
KA7T	398,040
K1EBY	382,704
K3MQH	382,464
KM1X	356,616
AA8AV	347,004

QRP

AA2U	538,152
K5ID	448,938
WT3W	207,680
N1AFC	186,956
VY2OX	181,152
KA1CZF	174,230
KT4J	168,480
WA6FGV	142,912
KB9CRY	100,760
VE6GK	90,268

Phone Only

High Power

K4XS	1,012,742
NR5M	894,786
K3EST	764,794
W5KFT	677,876
N0XA	619,038
W7ZR	606,144
WB1GQR	601,056
(WB2JSJ,op)	
N3ADL	584,688
(KY3N,op)	
NN7L	543,360
NW3C	531,288

Low Power

K6ESF	623,100
K7FR	320,856
N2CEI/T	286,440
AA5GY	277,290
AC9W	249,186
W1QK	234,868
AA5FJ	233,002
VE7NNN	228,816
VE6CGY	204,768
KL7FAP	197,736

attention toward learning and practicing better operating techniques. They can also concentrate more on looking for short and unexpected openings to exotic places.

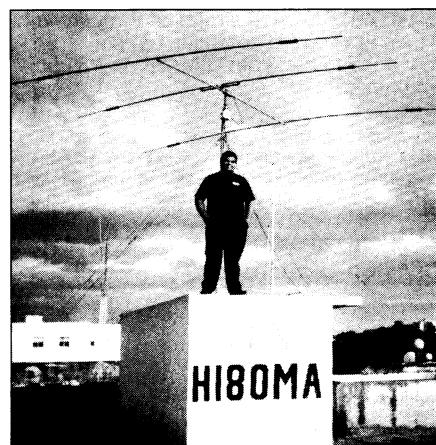
What will the next 10-Meter Contest bring? Will it be a repeat of this one, or will it be better or worse? Only time will tell. There's one sure way to find out, and that's to get on the air and check out the action yourself. The next running of the ARRL 10-Meter Contest is December 11-12, 1993. Thanks to Contest Assistant Anne Jaworski for her help in preparing these results.

SOAPBOX

After I got dug out from the big storm, it was a good weekend to operate (N8RA). I had to divide my time between shoveling snow and operating. The snow won (N1JAC). My new antenna worked well, although I needed to find more multipliers (NSVAV).



Brian, KB6SFS/N, makes one of the 183 phone QSOs that earned him a certificate for being the top Novice in his class in the East Bay Section.



Oscar, HI8OMA, poses in front of the antennas that helped him make 1214 low-power phone contacts.

This was the best I've ever done in this contest (WA7AHF). It's amazing how a band can come to life when people just get on it and call CQ. It was great to call CQ in the Novice subband and have C56/SM0JHF come back to me (AA8AV). I enjoy these contests; they seem to have better operators (KB9ABI/T). I'm looking forward to next year (WD0AVV). I was glad to take part in the contest, as opposed to just handing out points (ON4ALW). I tried this contest for the first time, and the conditions were fine! (OZ5ABD). This was the first time our club operated in this contest and we enjoyed it very much (P14ALK). This was my first try at operating QRP. It's great! (TG9AJR). I didn't go dancing on Sunday, so my score is much higher (VK2APK). The bands were open in the morning to the US and Japan, and in the evenings to Europe, for about 24 hours out of the 48 (VK8AV). We had great band openings from New Zealand to the US, and I made my WAS! (ZL1ANT). Conditions to North America were better than I expected them to be, but the signals of the European stations were marginal (ZL4AAA). I spent half of Saturday shoveling so we could get out, and Sunday the power went away and stayed away. What an interesting contest (K1MBO). My brand-new amplifier went kaput an hour before the contest (N3HBX). I started off Saturday morning with the intention of giving out a few QSOs before starting on the Christmas decorations, and I couldn't stop until late afternoon Sunday! (W4HBK). I found out about the contest at the last minute, but had a blast with 100 watts and a vertical antenna (WD5BJT). I only managed a few hours of operating time, but I still had a blast (AA7BG). It was great to have a good European run, but I only worked about 10 JAs all weekend (KB9BIB). The propagation was just good enough to make me question why I wanted to operate QRP. I still had fun

Top 10, DX

Mixed Mode

High Power

5U7M	1,670,708
(JH4NM,op)	
KH2V	1,497,660
(JA8RWU,op)	
V47G	1,470,996
C9RJJ	1,307,642
FF0XX	1,166,096
(FB1MUX,op)	
DL2MEH	859,782
PA0OOS	773,570

CW Only

High Power

ZS6BRZ	501,960
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Low Power

CW Only

ZD8LII	1,367,520
(G0LII,op)	
9A1CCY	747,820
VS6BG	685,152
E45WI	672,292
LU6EBY	669,312
4N7ZZ	610,460
ZL2ACP	544,196
G0AEV	288,354
ON4ALW	266,166

Low Power

CW Only

EA6ZY	671,320
NP2I	661,240
7Q7XX	581,196
LZ6L	539,448
(LZ2EX,op)	
5Z4FO	55,678
JR4GPA	42,048
NP2E	34,020
F2HE	31,200
UB5LBX	27,666
UB5IFX	15,424
IK5RUN	14,140
UW0ST	13,464

Low Power

CW Only

OZ3PE	163,664
RB5ZM	145,960
DK3GI	63,536
GM4HQF	60,736
F6ACC	54,880
Y08FR	31,744
JA0BMS/1	27,500
DL5JEN	27,136
OH2YL	23,920
ON7CC	18,584

Multioperator

CX70A	2,398,680
4U1UN	2,240,524
GB4DX	1,798,824
G0KPW	1,628,832
ZF1A	1,501,054
TM5C	636,216
(F6CTT,op)	
IR4T	740,052
(I4YSS,op)	
IT9A	724,884
(IT9GSF,op)	
TM5C	636,216
(F6CTT,op)	
ZL1ANT	586,080
U2AH	567,042

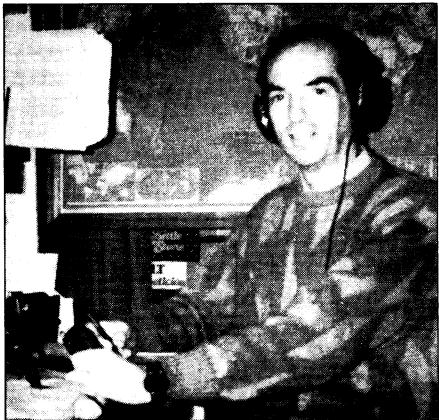
Low Power

CW Only

LU6ETB	734,478
CR3M	606,080
(CT3BM,op)	
HH2PK	573,400
FR5DX	536,400
FG5FC	429,324
TU4EG	415,250
IV3TAN	390,600
5B4AAL	358,888
WP4WD	351,648
DK0BP	312,156

Multioperator

(KG0BZ). Conditions here on the equator were poor, as I only had a few North American contacts (5Z4BI). This was my first time using online logging, and you can guess the trouble I had (CT1BOP). Conditions were good, with signals from all parts of the world. Activity was down, with a few amateurs probably thinking that 10 meters is already dead (EA7BA). This was my first contest experience, and I really enjoyed it! More important, it got me on the air on CW! (N2QCA). This is the best I've ever done of any contest I've entered (N7XCZ). I had a good time working the contest. The band conditions were hot! (N8PCN). There seemed to be some propagation to most parts of the world some of the time, but everyone sounded like they were QRP (NI9C). I sure could tell that we're on the downward side of the sunspot cycle because the band didn't really open until an hour after sunrise, started to fade out by noon, and was practically finished an hour before sunset. It was fun anyway (VE3CWE). I had a



Carlos, LU2NI, feels, "The contest was a great success. I worked all 50 states, 74 countries and eight Canadian provinces!"



Well-known contesteer John, PA0IJM, made 312,000 points from this setup.

fantastic time operating this contest (VE6CGY). It was easy to work the different states, although I still need the rarer ones (PA2CHM). The propagation was poor (YO2CMI). I didn't hear many DX stations this year, and there was little activity from South America and Oceania (N2LDU/T). This is a fun contest, where sleep deprivation is not a factor. Conditions seemed worse than last year (N3ADL). We worked a lot of familiar VHF call signs on meteor scatter Saturday night! (KA2DRH). I only heard three Novice or Technician stations. I suspect that there were many that didn't use the /N or /T suffix (K4LDR). It was frustrating to miss the "easy" areas, such as the northeast. I could hear them, but they apparently couldn't hear me. It was fun to follow the sun's path around the world (N4OD). Where were the Novices and Technicians on CW this year? I didn't work any (WD6DXH). I'm still amazed at the places you can work with next to nothing for a station (AA6DX). The band opened too late and closed too early (VE1DXR). I operated from a riverboat on the Elbe River between Magdeburg and Dresden (DL2DWA). Conditions were better than I could have expected. Even better, the beam didn't fall down until after the contest, when the winch wire snapped (GB2DX). The contest was exciting and I wish I had the opportunity to operate the entire contest (UA3DPX). My daughter wanted to see me more in the swimming pool, but I was able to make a few QSOs (8P9DI). I had a great time operating QRP, and can't wait for next year (KB2EBL). We worked the contest as a father-son team, and enjoyed ourselves very much (AB5EA). This was my first CW-only contest, and I learned a lot (N6PEQ). Trying to tune the band while logging on the computer and using a hand microphone kept me busy (KC6EUS). I'll sure work harder on the multipliers next time (AA6EW). We started out as

Greg, ZB2/N5OKR, struggled through high winds to keep his antennas up, but managed to hand out Gibraltar to 979 ops on phone.

newcomers, but by the end of the weekend everybody considered themselves contestants (KZ8E). I was surprised at how easy it was to work DX with only four watts. Working the local stations on back-

scatter was much harder (AAØEN). It was a great operating event, even with the awful conditions (LU6EBY). I'm 12 years old and this is the first contest I've ever worked by myself (NSWFFT/T). I missed last year's conditions. The band closed early and was hardly open to Europe at all (AB6FO). The decline in the sunspots meant the band closed an hour earlier, but my score was the best ever. I guess the practice helps (KL7FAP).

Division Leaders

<i>Division</i>	<i>Mixed Mode</i>	<i>Phone Only</i>	<i>CW Only</i>	<i>Multioperator</i>
Atlantic	K3ZO	N3ADL (KY3N,op)	W3GH	K3LR
Central	W9UP (NØBSH,op)	K9SK (WE9V,op)	NA1R	WØAIH
Dakota	WDØT	KA0ZFX	WBØO	KRØB
Delta	W5WMU (KZ5D,op)	AA5GY	N8RR	KG5TA
Great Lakes	N8AA	W8KKF	WD8LLD	AABU
Hudson	K2WK	N2CEI/T	KA2HMJ	K2MT
Midwest	KZ6E/Ø	NØXA	WDØAVV	NCØP
New England	W3EP	WB1GQR (WB2JSJ,op)	NX1H	NC1M
Northwestern	W7RM (AA7NX,op)	W7ZR	KS7O	NK7U
Pacific	W1FEA	K3EST	N6TV	NV6O
Roanoke	K16MS	KC4JMH	K4PQL	AA4S
Rocky Mountain	K5IID	KE5BL	AA6TT	KMØQ
Southeastern	NU4Y	K4XS	KBØG	KA2DRH
Southwestern	K6JCV	W6EEN	AA5WQ	AE6E
West Gulf	K13L	NR5M	AD5Q	N5NMX
Canada	CE4OO (VE4GV,op)	VE7IN	VE3KP	VE7NTT

Continental Leaders

<i>Continent</i>	<i>Mixed Mode</i>	<i>Phone Only</i>	<i>CW Only</i>	<i>Multioperator</i>
Africa	5U7M (JH4NMT,op)	CR3R (CT3BX,op)	ZD8LII (GØLII,op)	—
Asia	JF4ETK	5B4AAL	VS6BG	VS6WO
Europe	FF0XX (FB1MUX,op)	CT5P (CT1BOP,op)	9A1CCY	GB4DX
North America	V47G	ZF2RC (N6DEC,op)	NP2I	4U1UN
Oceania	KH2V (JA8RWU,op)	ZL1ANT	VK8AV	ZL4AAA
South America	PW2N (PY2NY,op)	ZP5JCY	LU6EBY	CX70A

Scores

DX Scores are listed by continent and country, according to the *ARRL DXCC Countries List*. US and Canadian scores are listed by call sign area and ARRL Sections/Canadian provinces. Each line score lists call sign, score, QSOs, multipliers, entry class (A = Mixed Mode; B = Phone only; C = CW only; D = Multioperator) and power (A = less than five watts output; B = less than 150 watts output; C = more than 150 watts output). The /T after a call sign indicates a Technician entry and the /N a Novice entry.

JR1LOK	2,070	30	23	A B	Ogasawara	EASBY	150,800	650	116	B B	G9NEI	44,872	316	71	B B	Lithuania					
JH4OYA	1,422	54	9	A B	JA5IGX/JD1	64,960	421	58	A B	EA3GEP	129,024	512	126	B C	LY1CX	174,754	464	131	A C		
JE7DOT	1,368	34	18	A A	JA9BFA/JD1	672	22	12	A B	EA3CWK	89,252	421	106	B B	LY3BA	155,710	498	115	A C		
JA0EZ	1,092	30	13	A B	Mongolia	EA1CAI	82,000	328	125	B B	G9NYD	9,546	129	37	B A	LY2BN	47,320	185	65	C C	
JA9YAV	168	11	4	A C	JT1BV	50,844	446	57	B B	EA5DGK	50,464	304	83	B B	LY1CY	4,200	42	25	C B		
JQ1NGT	24	3	3	A B	JA6VJS (JG4SVN,op)	271,054	1019	133	B B	EA3ELZ	49,728	228	112	B B	GB4DX (G4BWP,GSPL,ops)	1,798,824	2026	311	D		
JE2HCJ	222,224	817	136	B B	Asiatic Russia	EA3IKW	46,272	241	96	B C	EA3CVO	44,650	235	95	B B	LZ6L (LZ2EX,op)	130,872	376	76	A A	
JH1IED	112,716	558	101	B C	RA9C	112,992	520	66	A C	EA3DZZ	24,420	165	74	B B	G0KPW (G4S BAH,PIQ,WFR, G0DVJ,ops)	1,628,832	1961	304	D		
JA0JHA	77,784	463	84	B C	UA9RZ	110,410	520	61	A B	EA3EKT	7,776	81	48	B B	LZ1KNP (LZ1N-143,op)	93,744	291	93	A B		
JA2BNN	63,918	477	67	B B	UW0ST	13,464	150	37	A A	EA3DNC	7,080	60	59	B B	G3KDF (+G3NLY)	1,163,134	1603	251	D		
JR9NVB	22,848	168	68	B B	UW0SR	1,548	35	18	A C	EA2LB	3,740	55	34	B B	GB2DX (G4s NXG,OBK,YSN,ZYN, G0JSM,ops)	50,350	248	95	D		
JA6BIF	22,500	250	45	B B	UA0KAP	18,612	282	33	B C	EA1FDJ	2,268	42	27	B B	G6OI (G4s IEB,XOM,GR0RX, G7HEZ,ops)	20,412	156	63	D		
JF3EIJ	21,204	186	57	B A	UA9XC	158,688	551	72	C B	EA5FNE	798	21	19	B B	Austria	104,544	484	108	B B		
JH6FTJ	21,200	200	53	B B	UA9XC	11,600	100	29	C B	EA3GHC	570	15	15	B B	OE6CLD	36,828	297	62	B B		
JA6EFT	20,916	166	63	B C	UA9XC	652,590	292	128	131	CC	EA5WU	672,292	1282	131	CC	OE3GBB	178,048	414	107	C C	
JA2JSF	17,368	167	52	B A	UD6DKW	14,040	117	30	C C	EA4EP	183,924	350	131	CC	OE3EMN/1	178,048	414	107	C C		
JA9NFO	16,184	238	34	B A	UD6GF	9,344	100	32	C B	EA1CVZ	85,200	300	71	C B	Finland	OH7EU	130,848	347	141	A B	
JR7LVK	11,500	125	46	B B	EC9CYZ	13,932	77	43	C C	EA7AAW	10,400	101	25	C B	OH6SU	22,304	128	68	A B		
JA0EHE	8,820	105	42	B B	UA9XC	1,760	1,760	22	20	C B	EA7PN	1,007,478	1584	243	D	OG7NW	18,000	155	45	A B	
JA2GHP	4,752	72	33	B B	UA9XC	1,748	1,748	23	19	C B	EA4BV	1,163,134	1603	251	D	OG6UP	1,520	23	19	A B	
JH2WHIS	4,620	70	33	B B	UL7BAY	34,380	191	45	C C	EA5RCL	(EA3s AAH,ALD,DDI,GCT, GCV,GFW,ops)	81,700	1383	230	D	OH6LNI	66,444	294	113	B B	
JH6QD	3,968	64	31	B A	UL8CWC (+ops)	37,324	221	43	D	EA3IW	(+EA3GGO,EC3CTU)	254,106	570	171	D	OH6PO	10,296	117	44	B B	
JL6PK	3,906	63	31	B A	Hong Kong	VS6BG	685,152	1404	122	C C	EA6ZY	671,320	1291	130	C B	OH5NH	4,758	61	39	B A	
JE2FIM/1	3,660	61	30	B B	VS6WO	(WX3N,AG9A,NA9D, WX9E,ops)	1,142,206	1860	197	D	ES9RY	169,302	449	139	A B	OH1AD (OH1WZ,op)	300,832	632	119	C C	
JR1JC8	2,784	58	24	B B	XX9TRF (K2PF,op)	7,938	115	21	A C	EA4MM	98,124	220	111	C B	OG3MFT	247,192	583	106	C C		
JH7BEW	2,736	57	24	B B	Macao	EA1XT	(ES1s CR,DU,IL,ops)	48,000	200	60	D	EA6ZY	671,320	1291	130	C B	OH1TN	106,836	306	87	C B
JH9GHC	2,700	54	25	B B	Europe	ES9RY	169,302	449	139	A B	EA5RC	12,600	88	60	A B	OH6RC	89,180	245	91	C B	
JE0BLT	2,392	52	23	B B	9A2OB	231,648	657	114	A B	EA1CA	393,680	1406	140	B C	OH2BM	85,888	244	88	C C		
JG1GBL	1,840	40	23	B B	9A1CCY	747,820	1345	139	C C	EA1CA	742,296	1071	197	A B	OH3FM	39,780	153	65	C C		
JK1JHB	1,452	33	22	B B	Portugal	CT5P (CT1BOP,op)	897,396	2822	159	B C	EA1CA	742,296	1071	197	A B	OH3NM	36,000	120	75	C C	
JA3FZI	1,428	34	21	B A	CT1DV	527,450	1925	137	B C	EA1CA	393,680	1406	140	B C	OH2YL	23,920	115	52	C A		
JH1RMH	1,332	37	18	B B	CT1BWW	138,006	697	99	B C	EA1CA	742,296	1071	197	A B	OH3GI	15,912	102	39	B C		
JH1TYU	1,330	35	19	B B	CT1BJ	84,316	394	107	B C	EA1CA	742,296	1071	197	A B	OH1MMM (+OH6LI)	899,118	1241	239	D		
JH7VSO	1,320	44	15	B B	CT1QF	24,912	173	72	B B	EA1CA	742,296	1071	197	A B	OH6MMC (+OH6NIO)	484,120	963	196	D		
JH0DUA	960	30	16	B B	Portugal	9A2OB	231,648	657	114	A B	EA1CA	742,296	1071	197	A B	OG1BV (OH3s BV,VL,ops)	4,320	46	27	D	
J71ABD	870	29	15	B B	9A1CCY	747,820	1345	139	C C	EA1CA	742,296	1071	197	A B	Czechoslovakia	114,848	294	89	C C		
JH3OOS	552	23	12	B B	Germany	CT5P (CT1BOP,op)	897,396	2822	159	B C	EA1CA	742,296	1071	197	A B	CK3IA	100,608	286	96	A C	
JL1MW1	418	19	11	B B	DL2MEH	859,782	1282	231	A C	EA1CA	742,296	1071	197	A B	CK1ALQ	52,788	168	83	A C		
JN1HFK	364	14	13	B B	DL4MCF	505,236	749	213	A C	EA1CA	742,296	1071	197	A B	CK3TGC	30,680	146	65	A B		
JU1NUJ	240	12	10	B A	DK7ZT	298,252	591	173	A C	EA1CA	742,296	1071	197	A B	CK1LZ	26,544	157	56	A B		
JA9XAT	176	11	8	B B	Y5T4O	69,638	196	103	A B	EA1CA	742,296	1071	197	A B	CK2HI	8,856	65	41	A A		
JM6EBU	160	10	8	B B	DJ5AV	47,120	231	76	A B	EA1CA	742,296	1071	197	A B	CK2RH	58,388	304	96	B B		
JK6LH1	132	11	6	B B	DL2WVG	44,968	185	77	A B	EA1CA	742,296	1071	197	A B	CK3RHH	7,380	92	40	B B		
J72PBB	84	7	6	B B	CT1BJ	84,316	394	107	B C	EA1CA	742,296	1071	197	A B	CK3TAY	6,156	61	27	C B		
J1CFN	72	6	6	B B	CT1QF	24,912	173	72	B B	EA1CA	742,296	1071	197	A B	CK2BBQ	3,840	80	12	C A		
JH8KYU/1	180,360	500	90	C B	Azores	CU3LJ	163,680	492	120	A B	EA1CA	742,296	1071	197	A B	CK2PSZ	99,324	277	89	C C	
JH9CJW	166,336	450	92	C C	CU3LJ	250,614	1053	119	B C	EA1CA	742,296	1071	197	A B	CK3TG	114,848	294	89	C C		
JAE2WE	160,896	418	96	C B	CU3LJ	146,604	643	114	B C	EA1CA	742,296	1071	197	A B	CK1OAB	9,648	204	80	C C		
JE2WEN	138,600	385	90	C C	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK1DXW	51,612	186	89	C B		
JF3IUC	73,612	238	77	C C	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK3TEG	44,020	155	71	C B		
JH3IAU	67,784	228	74	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK1FSM	18,304	102	44	C A		
JF0SGW	21,312	111	48	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK2BDI	12,300	75	41	C B		
JF1SQC	20,304	108	47	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK3IF	10,640	77	35	C A		
JR3KEX	19,320	115	42	C C	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK2EII	37,142	168	83	C C		
JAT3BT	18,360	107	40	C C	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK2ND	10,220	73	35	C B		
JH3UWB	14,784	88	34	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK3TAY	6,156	61	27	C B		
JH7EDZ	6,528	48	34	C A	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK2BBQ	3,840	80	12	C A		
JH1NXU	6,204	47	33	C A	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK2PSZ	2,160	27	20	C A		
JH8HBO	5,936	53	28	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK3TG	1,836	29	17	C B		
JH1WYO	5,408	52	26	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK3RHH	1,594	195	76	C B		
JH0BOB	4,988	43	29	C B	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	CK4D	1,500,616	1695	307	D		
JR3KQJ	4,800	74	16	C C	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	OT2E (ON4s AEK,AKL,FK,ON5PB, ON6s JZ,MF,ON7s WK,YP,ops)	974,610	1554	245	D		
JK1PTT	4,232	46	23	C A	CU3N/A	140,224	626	112	B C	EA1CA	742,296	1071	197	A B	OT2M (ON4s ASB,AWU,ON5s SH,UM, ON7s CS,SF,ops)	816,992	1235	242	D		
JO1OZI	3,800	38	25	C C	CU3N/A	140,224	626	112	B C												

PA3DWD (+PA3s AAV, DCO, PA9s COR, JMH, PE1s NKW, LAU, OUF)	Yugoslavia	VK4DMPM	71,022	399	89 B B	K1EBY	382,704	802	119 C B
1,149,272 1416 287 D	VK1DX	174,752	688	127 B C	VK2GAH	53,690	455	59 B C	
PI4ALK (PA3s DLA, FPA, P04XAW, ops)	4N7ZZ	610,460	1163	131 C C	VK4ICU	23,548	203	58 B B	
60,180 192 85 D	VK1HA	108,768	309	88 C B	VK4NEF	4,440	74	30 B A	
Slovenia	YU7SF	93,960	267	87 C C	VK8AV	499,500	999	125 C B	
S57MM	VY1LJ	74,568	237	78 C B	VK4XA	408,020	887	115 C B	
S53AA	VY1KMK	38,740	149	65 C B	VK4TT	228,492	577	99 C B	
S57AL	VK2AYD	153,032	407	94 C B	N1EOL	11,760	84	35 C B	
S51SO	VK4KW	7,656	58	33 C B	K1KI (+NET)	313,720	682	115 D	
S57QM	VB6TI	48,174	260	62 A B	N1GVV7 (+WA1OHR)	4,368	76	28 D	
S59DX	YB6INU	39,930	343	55 A C					
S52OP	YB3OSE	30,380	171	49 A B					
S54CW (+SS9A)	North America	ZB2/N5OKR	233,002	979	119 B B	Indonesia			
937,744 1573 172 D	United Nations				YB6T1	89,238	264	107 A B	
Sweden	4U1UN (K2s GM, TW, N2AA, ops)		2,240,524	2902	286 D	K1VUT	61,334	216	91 C C
SM4BTF	6Y5RJ	106,088	423	89 A B	W1AX	57,428	174	98 A C	
SM4HEJ	Jamaica	22,344	98	57 A B	KD1IN	18,224	125	68 A B	
SM7DXQ	Barbados	8P9DI (LA9GY, op)			N1BC	4,864	60	32 A B	
SM5AY	Bahamas				KA1YQ	339,480	1230	138 B C	
SM6HRR	C6A/N4RP	135,744	356	96 A B	KA1AMR	57,720	370	78 B B	
SM7RPU	Guadeloupe	FG5FC	429,324	1614	133 B B	N1FYZ	10,170	113	45 B C
950 25 19 B B	Martinique				N1LLO/T	8,080	101	40 B B	
SM0TW	FMSDN	331,224	1492	111 B A	N1JCB/T	7,920	99	40 B C	
180,960 1740 104 C C	Haiti	FY5FP	413,540	898	115 C B	N1HVK	6,464	101	32 B B
SM6OLL	H2PK	573,400	2350	122 B B	KB1AGM/N	1,110	37	15 B C	
23,712 154 38 C B	Dominican Republic	HK3JJH	194,208	952	102 B B	KQ1V	174,960	403	108 C B
SM5RE	H8OMA	276,792	1214	114 B B	W2K1K	129,344	341	94 C B	
17,820 198 45 C C	Panama	HK7MQC	29,192	164	89 B B	KA1CLV	118,976	337	88 C B
SM5PPS	TE4T (T14SU, op)				W1MK	95,784	307	78 C B	
8,400 60 35 C B	Greece				WO1L	36,720	152	60 C C	
SK6AW (SM6s CVE, DED, DER, EHY, HCX, IQD, LFJ, ops)	N1EDM				K8JLF	11,400	75	38 C B	
297,260 646 167 D	Poland				KX1G (+NET)				
SP5NHM	SP9LJD	97,236	438	111 B B		606,552	1164	199 D	
SP6SOX	SP9YQ	95,056	457	104 B B	W1XS (+KB1KA, KD1KZ)				
SP6SOX	SP9YQ	2,226	53	21 B B	474,324	1039	174 D		
SP6YQ	SP9YQ	150,288	323	101 C B	Colombia				
SP2FAP	SP9YQ	17,472	104	42 C C	K1MBO (+NET)				
SP9BBH	SP9YQ	13,680	90	38 C B	W1FY (KA1s GFN, USL, UTI, N1JFO, N1L0O/G4DZC, ops)	145,860	386	143 D	
SP5ZA	SP9YQ	11,716	101	29 C B	N1KYP	65,448	225	101 D	
SP3AOT	SP9YQ	5,060	55	23 C B	N1IUN (+N1KQO)				
SP2FOV	SP9YQ	1,176	28	14 C C	WA1NPO (KA1ZUB, N1s KBW, KXJ, NTZ, N1X, WA1OFR, ops)	43,788	258	82 D	
Corsica	TG9AJR	103,014	531	97 B A	W2DLA	215,688	801	132 D	
TK5EP (+TK5s MH, MN)	TE4T (T14SU, op)				WA2VZQ	3,696	56	33 D	
1,453,142 1789 277 D	Virgin Is				K2AU	14,136	93	38 C C	
European Russia	NP2Q	164,492	397	118 A A	K2MT (+NET)				
UA3ABJ	NP2PE	34,020	205	81 A A	KD1F (+WB2DHY)	1,130,766	1558	273 D	
UA3DPX	W2IB/JPK2	406,464	1944	103 B C	WA2SYN (+WM2V)	800,470	1616	209 D	
UZ3AWO	NP2I	661,240	1355	122 C B	NN2G (+NET)	305,064	581	204 D	
RK3A (UV3AEV, UA3-172-126, ops)	KP2N	216,580	618	85 C C	N2FF (+NET)	40,896	213	96 D	
296,888 733 148 D	Puerto Rico				Northern New Jersey				
UZ1AWO (UA1s 169-1311, 169-1312, 169-2391, ops)	WP4WD	351,648	1628	108 B B	K2WK	1,149,064	1700	238 A C	
40,796 227 62 D	W2QFQ	58,936	278	53 C B	K2SG	931,572	1405	229 A B	
Ukraine	GUATEMALA				A2AU	538,152	686	204 A A	
UY5TE	GUATEMALA				W2GRD	112,574	346	119 A B	
UT5UGR	GUATEMALA				WA2WYR	31,960	129	68 A C	
UB5LBX	GUATEMALA				WA2UDT	17,400	100	60 A C	
UB5IF-X	GUATEMALA				N2HMM/T	396	21	9 A C	
UT3UA	GUATEMALA				N2CE1/T	286,440	1085	132 B B	
UB6JZ	GUATEMALA				K2EZU	111,996	459	122 B B	
UB5VDA	GUATEMALA				N2LDU/T	85,280	520	82 B B	
UB5VAP	GUATEMALA				K2CY	79,134	363	109 B B	
RB5OPS	GUATEMALA				W2L1	73,360	524	70 B C	
RB5TBS	GUATEMALA				K2CP	21,080	170	62 B B	
RT91 (RB5IM, op)	GUATEMALA				KB2NXT/T	14,696	167	44 B B	
560,480 1239 155 D	Bermuda				K2E2BL	14,280	140	51 B A	
UZ3RXX (RA3RFH, UA3s RFC, RMK, UW3RC, UA3-157-111, ops)	LU1DF	204,600	825	124 B B	WB2JTE	12,688	122	52 B C	
438,000 935 150 D	LU2NI	201,096	756	133 B B	K2HNM	3,968	66	31 B B	
RK3A (UV3AEV, UA3-172-126, ops)	LU6DTS	50,400	300	84 B B	A2AEW	264,936	589	114 C B	
296,888 733 148 D	LU8DY	46,662	303	77 B C	WG3I	204,600	464	110 C B	
UZ1AWO (UA1s 169-1311, 169-1312, 169-2391, ops)	LU7DW	32,160	201	80 B B	WA2YYA	124,384	337	92 C B	
40,796 227 62 D	LU1ORR	28,938	159	91 B C	N2KJW	106,848	209	84 C B	
Ukraine	LU6ERY	669,312	1161	144 C C	WF0Z	79,380	244	81 B C	
UY5TE	LU1VV	1,114,120	1969	230 D	W2CVW	44,160	160	69 C B	
UT5UGR	LU1VVK, VV, LU4VZ, LU5VC, LU9VY				K2SSX	23,256	113	51 C B	
UB5LBX	LU1FZR (+LU1FNH, LU5FCI, FIC, AZ8FAG)				K2KR (K2OWR, N2s BIH, KIM, KWO, WB2BHC, ops)	1,000,632	1354	241 D	
UB5IF-X	LU1GJ	198,214	636	139 A C	W2GD (+NET)				
UT3UA	P40P	539,448	1166	114 C B	WA2PSD (+N2DSY)	130,968	321	102 D	
UB6JZ	P40CW	471,744	1049	112 C C	WU3A (+NET)				
UB5VDA	P43GR				WA3JCM (+KB1AJ.S, N1KWM)				
UB5VAP					WA2PSD (+N2DSY)	96,792	436	111 D	
RB5OPS					WA3JCM (+KB1AJ.S, N1KWM)				
RB5TBS					WAU3A (+NET)	94,464	246	96 D	
RT91 (RB5IM, op)	PW2N (PY2NY, op)				KB2N (N2s IRY, MSX, N2Q, W2OZU, WA2S ALQ, MNJ)				
587,692 1008 254 D	PY2GFB	222,300	476	150 A B	WA2PSD (+N2DSY)	77,688	351	83 D	
RY11 (UB3s IM, RO, RB4II, ops)	PY2YNT	540	18	15 B B	Southern New Jersey				
422,692 1231 124 D	PY1AJK	83,868	241	87 C B	WB2DIN	186,116	413	161 A C	
UB3IWA (UB5s IFZ, IKF, IML, IO, ops)	W1AJW/V9P	759,552	2752	138 B C	WA2LB	104,880	308	114 A B	
362,112 996 123 D	ZF1A	1,501,054	2517	211 D	N2AWC	4,256	75	28 A C	
Belarus	W1LHJ/MM2	49,128	232	83 A B	KB2BF	216,720	840	129 B C	
UC2AB	N1MH/MM2	149,128	200	125 B C	N2KPF/T	36,936	342	54 B B	
RC2CO	N1MH/MM2	149,128	200	125 B C	K2MK	266,112	593	112 C C	
UC2WEV	N1MH/MM2	149,128	200	125 B C	W2NZH	72,588	260	69 C A	
RC2AY	N1MH/MM2	149,128	200	125 B C	K2ZA	45,240	173	65 C B	
Latvia	W1LHJ/MM2	149,128	200	125 B C	AE2N	36,960	153	60 C B	
YL2GD	N1MH/MM2	149,128	200	125 B C	K2HPV	4,284	21	1 C A	
YL2DZ	N1MH/MM2	149,128	200	125 B C	N2RHM (-KB2s DKB, KWKW, KDW1, KA3YIA)	552,816	905	198 D	
YL2KO	N1MH/MM2	149,128	200	125 B C	K2PS (+NET)	294,120	588	171 D	
Romania	W1LHJ/MM2	149,128	200	125 B C	W2ABD	153,624	320	148 A B	
YO9AGI	N1MH/MM2	149,128	200	125 B C	WJ2O	34,902	201	63 A C	
YO4RDN	N1MH/MM2	149,128	200	125 B C	AJ3K	32,390	144	79 A C	
YO7ARY	N1MH/MM2	149,128	200	125 B C	KB2NXK/T	12,650	103	55 A B	
YO8FR	N1MH/MM2	149,128	200	125 B C	KE2VB	259,836	1101	118 B C	
YO6LV	N1MH/MM2	149,128	200	125 B C	NA2A	112,860	570	99 B C	
YO3CR	N1MH/MM2	149,128	200	125 B C	N2PEB	32,680	190	86 B C	
YO4BBH	N1MH/MM2	149,128	200	125 B C	WB2MWV	24,530	223	55 B B	
YO2CMI	N1MH/MM2	149,128	200	125 B C	N2MYM	5,610	85	33 B B	
YO6KBM (YO6s CJN, DDF, OPS)	N1MH/MM2	149,128	200	125 B C	WF2V	1,080	36	15 B B	
50,232 243 84 D	N1MH/MM2	149,128	200	125 B C	WF2W	425,982	918	116 C C	
Latvia	W1LHJ/MM2	149,128	200	125 B C	KW2J	266,976	648	103 C C	
YL2GD	W1LHJ/MM2	149,128	200	125 B C	K2SM	84,240	256	81 C A	
YL2DZ	W1LHJ/MM2	149,128	200	125 B C	NW2I	52,500	171	75 C A	
YL2KO	W1LHJ/MM2	149,128	200	125 B C	W2OMV	50,120	179	70 C B	
Romania	W1LHJ/MM2	149,128	200	125 B C	W2TZ	45,600	200	57 C B	
YO9AGI	W1LHJ/MM2	149,128	200	125 B C	WZ2T	8,424	76	27 C C	
YO4RDN	W1LHJ/MM2	149,128	200	125 B C	WJ2W (+NET)	116,100	285	129 D	
YO7ARY	W1LHJ/MM2	149,128	200	125 B C					
YO8FR	W1LHJ/MM2	149,128	200	125 B C					
YO6LV	W1LHJ/MM2	149,128	200	125 B C					
YO4BBH	W1LHJ/MM2	149,128	200	125 B C					
YO2CMI	W1LHJ/MM2	149,128	200	125 B C					
YO6KBM (YO6s CJN, DDF, OPS)	W1LHJ/MM2	149,128	200	125 B C					
50,232 243 84 D	W1LHJ/MM2	149,128	200	125 B C					
Slovenia	W1LHJ/MM2	149,128	200	125 B C					
S57MM	W1LHJ/MM2	149,128	200	125 B C					
S53AA	W1LHJ/MM2	149,128	200	125 B C					
S57AL	W1LHJ/MM2	149,128	200	125 B C					
S51SO	W1LHJ/MM2	149,128	200	125 B C					
S57QM	W1LHJ/MM2	149,128	200	125 B C					
S59DX	W1LHJ/MM2	149,							

W2KKZ (+NET)	47,068	150	82	D	Georgia	N2DNY	1,296	27	24	B C	K5QJO	(KC3N,KF4FL,KB5KY,T, KT5V,N5HD,NDO,P,WB0NSA,ops)	Orange	K6JCV	766,688	1353	208	A B	
3					AC4AWO	442,624	805	182	A C	WB0AHZ	449,280	860	130	C B	W6EEN	208,666	1033	101	B C
Delaware					K4SB	428,064	706	196	A C	N4BP	135,520	440	77	C C	KC6SKQ	161,994	931	87	B B
KS3F	1,039,392	2010	216	A C	K4LDR	59,290	262	77	A B	K4MF	117,000	325	90	C C	W5BJ	432,216	828	174	D
N4M0/3	203,040	470	108	C C	NH6SR/4	44,160	240	92	B B	WD4DUG	(K4EUK,K4AWNZ,KO4GN, WA4CJG,WD4HHA,KA0YAB,ops)			W0VX	(+WA3DYF,KB5s SFL,TGV, N5UIC,W5WO,WA5WSI,WB6NBF, WA8ZBT)	314,664	670	151	D
WN3K	88,800	299	74	C B	KB4VLO	76,680	355	108	B B	WB6OWD				N6PEQ	253,344	602	104	C B	
Eastern Pennsylvania					KC4YNE/T	58,786	323	91	B B	N5OHL	59,684	294	86	A B	NF8H	143,520	387	92	C B
WE3E	600,644	1156	187	A B	KN4QV	119,808	311	96	C B	WD4OHD	84,180	268	115	A A	WA6TMY	120,960	415	72	C B
WF3M	246,500	520	147	A C	N4OD	87,000	250	87	B C	KC5BH	9,288	128	36	A B	W6HAL	62,196	217	71	C C
WT3W	207,680	497	160	A A	KB4BBC/T	7,392	88	42	B B	N5RFX	187,008	974	96	B B	WA6RND	33,252	160	51	C C
KB3TS	141,940	342	151	A C	KB4BG	787,360	1322	148	C C	N7VOI/T	22,080	160	69	B B	W6NT	32,032	154	52	C B
KC3M	116,224	280	128	A B	KB4GID (N4LDZ,op)					KD5RQ	5,644	83	34	B B	K6V6 (+KD6AZK,W6CCP)	763,200	1454	200	D
WB3LNZ	52,598	199	91	A B	AB4RU (+NET)					KB5ENP	37,648	179	52	C B					
W3SSS	39,366	165	81	A B	KN4QV	133,760	352	95	C C	WM4Z (+N5CG)									
N3HKX/T	16,680	110	60	A B	N4OD	87,000	250	87	C B	W9WI	143,112	329	134	A B	Pacific				
WE8J	4,094	48	23	A B	KD4UZ	16,732	88	47	C B	K2EJO	117,448	551	106	A C	NH6ZA	412,012	977	146	A B
N3ADL (KY3N,op)	584,688	1874	156	B C	WB4KRH	143,916	537	134	B B	WD4OHD	84,180	268	115	A A	NH6NZ/T	13,300	82	70	A A
NY3Y	99,440	452	110	B A	KC4ZAL	18,980	130	73	C A	KC4ZAL	18,980	130	73	C A	KH6FKG	326,340	1554	105	B C
K3KF/D/T	75,576	402	94	B B	AC4PZ	4,664	50	44	A B	AC4UB	48,664	308	79	C C	N6HR/KH6	166,996	1006	83	B C
KA3TLE	40,992	244	84	B C	KS2X	38,364	417	46	B B	KS2X	26,108	214	61	B B	KH8CDO	162,424	514	158	B B
WA3LVR	38,014	229	83	B C	NU9J	21,000	150	70	B B	W4OG	21,000	150	70	B B	AH6IM	123,552	792	78	B C
KB3AGZ	16,632	154	54	B C	W4OGG					W4OGG	1,245,216	1903	204	D	WH6FA/T	23,112	214	54	B B
N3KFG/T	16,400	164	50	B A	KC4URS	10,000	100	50	B B	W4JX	706,352	1348	131	C C	W6B5JF/KH6	16,280	185	44	B B
N3BCZ	6,080	76	40	B B	WD4CQE/T	5,376	56	48	B B	W4JX	682,560	1181	144	C B	AH6JF	206,856	663	78	C C
KA3YUH	4,216	68	31	B B	KI4UZ	60,000	200	75	C C	W4WU	7,280	65	28	C A	NH6DV	4,472	43	26	C B
AE3J	3,500	50	35	B C	KD4PUT/T (+KC4WBE)	115,000	266	115	D	W4TU	39,680	160	62	C B	KH6IO (+AH6LV,W6HBC)	379,016	1002	146	D
NY3G	407,040	795	128	B B	W4U4CE (AC4HF,KC4JUN,KD4K					N5WFF/T (+N5VRU)	86,400	335	100	D	Santa Barbara				
K3MQH	382,464	744	128	C B	KD4QMO	139,194	703	99	B C	N5XUS	41,148	172	81	A B	W6AB (N6GC,op)	541,266	1184	177	A B
AA3B	364,800	757	120	C C	K4EQT	21,204	186	57	B B	W5XUD	30,814	185	71	A C	W6TKF	274,176	628	136	A C
W3MM	274,714	587	117	C C	WB4RDX	1,204	186	57	B B	W5XJ	11,868	75	43	A C	KH6FGV	142,912	497	112	A A
KL7HJR/3	200,244	450	111	C C	K4UYF/T	5,544	84	33	B C	W4PGM	736,598	1088	239	A C	KD6FWY	23,496	178	66	B B
WE3HZ	111,384	299	91	C B	WB4SIQ	3,644	84	33	B C	NR5M	894,786	2679	167	B C	KC6EUS/N	18,280	166	55	B B
KC3Q	89,544	246	91	C B	WB4SIQ	2,968	38	28	A B	WD4RDV	58,200	200	97	A B	K1FJM/6	9,768	111	44	B B
WA3AAN	41,496	181	57	C B	KD4TEK/N	2,548	49	26	B B	N5LFBH	197,840	915	108	B C	W6BKY	55,120	212	65	C B
N3RW	33,480	135	62	C C	WB4RDX	51,072	168	76	C B	W4RKC	290,170	1029	141	B C	N7LTO (+W6OLU)				
W3KV	17,100	75	57	C B	K4AR (+G4BUE,N4TY)	1,642,880	2184	272	D	KF5RM	20,280	156	65	B B	Santa Clara Valley				
N3CZB	7,884	73	27	C B	K4AR (+G4BUE,N4TY)	1,642,880	2184	272	D	K5DX	19,260	321	30	B C	W0YK	1,055,432	2109	188	A C
WF3T (+WD3U)	746,914	1022	217	D	KK4DOO (+N4GNL)	93,744	378	124	D	W4PSJ	25,896	158	83	B C	N6NF	485,110	1176	139	A B
K3WW (+NET)	203,100	425	150	D	W4YD	27,048	161	84	B B	W4Y2V	22,836	173	66	B B	N6RZ	95,700	340	87	A B
N3GOA (+N3BNA)	55,752	265	101	D	N4MS	1,028,178	1467	239	A C	K4M	2,608	157	72	C C	AD6E	95,000	285	100	A B
KA3ZUQ/N (+KA3ZVN)	14,532	141	42	D	KB4N	514,560	815	201	A B	KJ4OP	153,600	380	100	C B	WN4KKN/6	26,768	178	56	A C
Maryland-DC					KD4N	442,400	700	190	A B	NQ1W	140,760	345	102	C B	N2ALE/T	1,040	40	13	B B
K3ZO	1,567,746	2076	251	A C	KD4NIZ/T	1,204,144	1067	239	A C	W4XD	133,176	358	93	C C	N6TV	557,232	1221	114	C C
W3UJ	214,520	512	135	A C	KD4NIZ/T	7,210	103	35	B B	W3FTG	32,760	129	63	C B	AG6D	433,664	968	112	C C
K3SA	156,702	350	123	A C	WB4BMV	22,066	187	59	B B	WB2QNT (+NET)	970,080	1561	258	D	N6ZB	304,580	781	97	C C
W3FQE	2,806	46	23	A C	KD4MIL	20,096	157	64	B B	N4IRT (+WV3J,KC4UZ,KD4e,DAI, JVC,KJ4LM,N4ZFQ,WB4PJW)	140,444	434	143	D	N6V	91,656	314	67	C B
N3HBX	340,818	1321	129	B C	KD4DU/T	14,664	141	52	B B	WB4WDX	28,272	114	62	C B	WD6DXH	46,900	175	67	C B
K4CGY	163,800	630	130	B C	KD4DU/T	1,021,742	2927	173	B C	N5O	40,416	221	130	D	W6RVY	41,688	192	54	C A
WA3EEE	152,098	673	113	B C	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	W9MAK	38,280	164	58	C B
KC3PZ	115,168	472	122	B B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	W6KZJ	16,920	90	47	C B
W6AXX	75,384	349	108	B C	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	N6YE	10,512	72	36	C B
WB2BZR/3/T	66,600	300	111	B B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	WB6CJE (+KD6OPB)				
K3GEQ	42,592	242	88	B B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	365,772	765	163	D	
N3KJ/C	28,152	204	69	B B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D	AA6MV (+NET)	179,180	527	85	D
WP4DL/W3	15,848	228	74	C B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3TWP	25,376	122	52	C A	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
W3GG	64,260	255	63	C C	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3TW	25,376	122	52	C A	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
W3XE	5,580	45	31	C C	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
4U1WB (KH2F,KF3P,KH4HD,ops)	1,507,550	1926	275	D	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3IV0 (K3s,HQ1,YD3,K3Y3R,K3Y3U, NN3O,W3IP,WB3CL,WB6VGI,ops)	326,032	929	164	D	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3IXD (+NET)	94,320	284	90	D	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3IDX (+NET)	92,460	402	115	D	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
WI2T (+KA3QPG)	48,772	239	89	D	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
Western Pennsylvania	110,544	293	141	A B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
WW3S	53,126	204	101	A B	KD4DU/T	1,79,992	459	151	D	AB4SF (+NET)	21,546	100	63	D					
K3DEU	4,181	70	33	A															

N6JM	1,240	31	20	B	B	K7RI	526,580	2330	113	B	C	W8BI	(KB4TLH,KABOOF,KB8s IDM, LBQ,KFBs HM,LW,N8IBW,ops)	WB9PRG (+NET)	7,952	107	28	D	South Dakota				
WD6BOX	12	3	2	B	C	N7TT	(KA2KRA,op)	422,212	1774	119	B	C	407,880	1025	180	D	WD0T	1,260,534	2160	213	A	C	
K6FO	116,280	315	90	C	B	NB7N	89,540	502	54	C	C	KA8PGV	(+KA8D,KABYNW,KB8KPL, N8JBG)	67,000	332	100	D	N9JP/D/0/T	111,300	742	75	B	C
AA6EW	87,048	402	54	C	C	WA7NFE	7,800	100	39	B	B	KA8HQJ/T	(+WB8VUU)	51,198	371	69	D	KA0VME/T	7,104	96	37	B	C
K6SG	39,060	155	63	C	B	WB7CLU	5,472	171	16	B	C	WY0Z	1,984	30	16	C	C						
NX6Z	7,440	61	30	C	C	K57O	492,680	1128	109	C	C												
NV6O (+AA6LB)	764,764	1635	182	D		N7EPD	221,840	587	94	C	B												
WA6AUE (+NET)	147,420	403	91	D		K7WA	105,624	326	81	C	B												
7						N0AX	99,300	331	75	C	A												
Alaska						KG7ME	88,080	366	60	C	A												
WL7E	938,448	1598	171	A	C	K7ND (+WA7UV,W7MA)	774,648	1588	159	D													
AL7MK	7,200	75	36	A	B	WD0CCW (+N7RL)	15,158	143	53	D													
NL7WA	335,920	1976	84	B	C	N7RPC	504	15	12	A	B												
KLF7FAP	197,736	1177	85	B	C	N7MWZ	120,946	1141	53	B	B												
N5PJR/KL7	5,184	81	32	B	B	N7TGO (KD7RX,op)	70,066	661	53	B	C												
WL7DS/T	3,710	53	35	B	B	KB7M	43,470	345	63	B	C												
AL7CQ	365,532	1095	83	C	C	NC7O	38,976	168	58	C	A												
AL7OJ	19,008	132	36	C	A	N7PLJ	14,208	108	32	C	B												
KL7TG (+N6IV,NL7RE)	70,760	734	70	D		N7SEH (+N7s SVs,CV,VLM,VLN)	98,356	734	67	D													
AL7MU (WL7s CBV,CEE,COF,CFR, CFS,ops)	67,588	554	61	D																			
Arizona																							
N7JKS	85,344	205	127	A	C																		
W7KTY	68,210	241	95	A	B																		
KG7BO	10,560	79	32	A	B																		
WA7AHF	178,288	1013	88	B	B																		
KE7QJ	23,790	195	61	B	C																		
KD7JR	13,664	122	56	B	B																		
N7GJD/T	6,912	96	36	B	B																		
AA5AQ	373,160	969	95	C	C	K8CIV	46,410	196	85	B	C												
WA7TWI	64,944	198	82	C	B	N8SHZ	15,996	126	62	A	C												
W2HTX	57,900	193	75	C	B	N8FVL	12,036	113	42	A	B												
NN7A	26,432	112	59	C	B	N8LMT	95,940	410	117	B	C												
W3FZV/T	7,800	78	25	C	C	K8TMK	88,480	395	112	B	C												
KG7IZ (+KB7KZ,KF7NR)	712,380	2208	155	D		N8NAH	36,960	286	66	B	A												
KF7YP (+NET)	96,224	336	124	D		K8EHN	32,832	222	72	B	B												
Eastern Washington						N8NAJ/T	21,200	206	53	B	B												
K7IOO	235,144	840	119	A	B	K8BAA	28,070	100	50	B	C												
K7FR	320,856	1383	116	B	B	N8NAK	347,004	725	119	C	A												
N7RWH	60,888	354	86	B	C	WB8GGM	322,980	757	105	C	C												
W7WKB	27,648	216	64	B	B	WB8BB	217,056	453	119	C	C												
K7MM	172,272	441	97	C	B	WQ8T	107,016	272	98	C	C												
N7WI	66,728	242	71	C	B	N8AP	84,064	277	74	C	A												
W7WMO	29,216	166	44	C	C	K8DD	59,200	206	74	C	B												
Idaho						N8CQA	44,676	153	73	C	A												
N7MPS	141,910	370	115	A	C	WB8FV	17,731,072	2085	276	D													
WA0DYU	249,536	1114	112	B	C	WB8GMM	367,360	873	160	D													
KA7T	398,040	908	107	C	B	WB8MTT (+NET)	217,056	115	518	346	141	D											
AA7JM	106,240	320	83	C	C	A8AFF (+KA8UZE,KE8XY,N8MZQ, N8PYW,N8SBW,N8TUO,N8WDH, WB8BBH)	40,470	244	71	D													
KK7A (+NET)	25,045	162	62	D																			
Montana																							
K0PP/T	880,490	2206	169	A	C																		
N7WKG	91,290	895	51	B	B																		
KC7NX	63,492	481	66	B	B																		
N7MVX	28,496	274	52	B	B																		
N7MSU	19,600	200	49	B	B																		
AA7BG	41,616	204	51	C	C																		
Nevada																							
NC7K	277,840	613	151	A	B																		
W7HO	14,362	131	43	A	B																		
KB7GYS/T	26,108	214	61	B	B																		
N7XCZ	19,040	170	56	B	B																		
N6YK	491,772	1149	107	C	C																		
Oregon																							
W7WHY	514,850	1108	175	A	B																		
WD7X	445,510	1326	149	A	C																		
N7MMQ	100,400	300	100	A	C																		
KG7DK	71,262	200	111	A	B																		
KG7XG	59,488	273	88	A	C																		
W7IMP	42,660	143	90	A	C																		
WB9HZT	30,686	151	67	A	B																		
N7CK	3,780	63	30	B	B																		
AA7ML	11,440	134	44	B	B																		
KO7I	246,400	700	88	C	C																		
AA7KF	240,300	671	89	C	B																		
K7Y	201,292	550	91	C	B																		
K7OVM	121,800	406	75	C	B																		
W7TC	606,144	2464	123	B	C																		
WS7O	88,088	512	87	B	C																		
W8KKF	216,858	768	141	B	C																		
WB8YNO	106,290	541	95	B	C																		
N6WLX/8	102,790	541	95	B	C																		
K8EKT	102,060	486	105	B	B																		
WB8DGC	82,800	360	115	B	B																		
WB8TC/T	26,600	175	76	B	B																		
N8PCN	22,620	195	58	B	B																		
KB8OAU/T	20,286	161	63	B	B																		
N8OOR	15,892	137	58	B	B																		
WB8AZQZ	14,200	100	71	B	B																		
WB8KYZ	11,336	109	52	B																			