

Results, 1991 ARRL 10-Meter Contest

I can't believe the sunspots are supposed to be on the decline.—*Robert, K9MDO*

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

Propagation plays a big part in any contest, but it's extremely important in the ARRL 10-Meter Contest. When the band is open, it's hard to beat. The far corners of the globe can be easily worked with only flea power and the proverbial wet noodle, but when the band is closed, it's closed! In fact, when conditions are good, the average station, running 100 watts or so with a small beam at 35-40 feet, will have no trouble holding its own in the midst of the kilowatt stations with stacked-beam arrays. For this year's contest, even though we're experiencing the downward side of Solar Cycle 22, we were blessed with outstanding band conditions. One couldn't ask for much better! Contesters with modest stations were right there battling it out with the big guns. Contacts were plentiful for everyone.

The reason for the success of this year's contest is obvious—sunspots! In 1990's contest, the sunspot numbers were 88/99/112 for the two-day period; this year they reached 175/177/175—almost double! This late spike in Cycle 22 made for the best conditions we may see for quite a while.

Looking at the logs showed that conditions were following the sun for the most part and the band was open before sunrise and well past nightfall both days. For example, Carl, P40V, ran Pacific stations until 0400Z the first night. He also had a tremendous run of Europeans from 1100Z-1400Z. In fact, his rates during those morning hours the first day went like this: 1100Z-1200Z, 215; 1200Z-1300Z, 298; 1300Z-1400Z, 321. Were you on the air at your sunrise? If not, you missed good band openings and a chance to log many more DX stations. Yoshiyuki, 5U7M, worked many of his QSOs along gray-line propagation paths. His peak QSO rates were at the times of European sunrise/Asiatic sunset, sunrise on the East Coast and his own sunset. Many people neglect to listen for back-scatter signals, as well. Rick, KI1G, operating K1NG, was working US stations well into the night! Conditions at the start of the contest helped the crew at W7XR to work 250 stations in the first hour alone!



Dan, ZF2RE (l), and Howard, ZF2RC, look pleased with the results of their first DXpedition.

As Barry, VE3ZD, pointed out, "This was really two contests—the DX Contest each morning and Sweepstakes every afternoon, with the Pacific for a bedtime snack!"

Then there's the interesting case of WØUN. George, WØUA, operated at John's farm (WØUN) using his new 32-element array (8-over-8-over-8-over-8). Not only was he able to run stations all contest long, but he reported hearing his own echoes bouncing back from the moon early one morning before the band opened! His second-place finish in the mixed-mode, high-power category proves that he's definitely on to something.

With conditions as good as they were, a lot of people took a break from Christmas shopping to operate in the contest. We received 2073 entries this year, a substantial 8% jump over last year's total of 1919. In addition, 124 US Novices and Technicians got on the air, and a number of them put in impressive efforts. You just couldn't

beat the experience of this year's contest. Make your plans now for December 12-13, 1992, for the next ARRL 10-Meter Contest!

SOAPBOX

This was my first try at this contest—next year I'll operate the whole 36 hours! (RC2AZ). This was the first time I operated in the QRP category. It's not easy! (4N4A). We had a DX window that wouldn't close, for once (VK2ARJ). This is a fun contest. I enjoyed the easygoing pace and all the different categories (W3DAD). I'm savoring Cycle 22! (KCSAC). Conditions were better than last year and there was a lot of good DX on the bands (AA8AV). I was handicapped by a nine-year-old and a six-year-old wanting to "help" (WA8QZZ). It's amazing what 25 watts and an antenna inside a college dorm room can do, but I wish the contest hadn't fallen on the weekend before finals (KB9AMG). It was just a wonderful rate-fest from start to finish (WØUA). I enjoy this contest more every year (WDØAVV). We had good propagation both days (JA2AXB). This is the first time I've entered this contest. It's amazing what 25 watts and a ground plane will do when the other guys have the good antennas to hear you (7J3ABO). It was a nice contest, but we had auroral conditions (OY6A). Sometimes it's difficult to break through the pileups from the big stations (OZ7AX). It's a tough contest to do from VK6 with only 70 watts and a ground plane. I'm now bald with frustration (VK6BB). As a Novice, this was my first contest. I really enjoyed it, especially the excitement on CW where I could call CQ and people were crowding in to contact me! My speed improved quite a bit by the end (KB2BFU/N). The conditions were down from previous years, but there was plenty of activity (K3HBP). Next time I'll use a computer (N3MBX/T). Although my operating time was half of last year's, conditions had to be great, as I exceeded my previous score (WA7BNM). This was the first time I worked so many stations with my equipment (WH6BG/T). These were the best conditions I've seen in years—the band was open from before sunrise until after sunset (KA6BIM). I love this contest! (AA7BG). I was so amazed at how many contacts I was making that I had to keep checking the wattmeter to make sure I was running QRP! (WMØB). Cycle 22 sure was fun while it lasted! (VS6BG). I wish I could contact more east coast stations (JEØBTL). It was difficult with an indoor antenna (EA4BV). High local noise level Sunday during my US run upset my rate! (GW4BLE). This was my first contest since 1966. I don't know why I stayed away so long (KF2CU). Because the band went out at night, I had a chance for a good night's sleep,

Top Ten, W/VE

Mixed Mode, High Power

Call	Score
K1NG (K1G,op)	2,294,668
W8UN (W8UA,op)	2,185,260
K6LL	1,831,648
K5TSQ	1,669,294
AA4NC	1,666,008
K3ZO	1,559,424
W5WMU (K2ZD,op)	1,552,500
W1FEA	1,457,806
KASW	1,454,750
N6TU	1,420,488

Mixed Mode, Low Power

Call	Score
XN4QQ (VE4GV,op)	962,542
KQ7I	905,886
K6JCV	860,188
W6UOF	818,742
KB3MP	709,200
N7LOX	676,076
K1YRP	612,128
WA8OOA	595,782
KZ1M	595,728
VE6ARX	577,868

Mixed Mode, QRP

Call	Score
AA2U	532,728
KD7E	372,570
K5IID	355,100
W6KEA	302,512
KA1CZF	207,808
W8ILC	168,640
WA6FGV	129,204
KT4J	126,672
WM6B	123,872
W8QZA	105,000

Phone Only, High Power

Call	Score
K4XS	1,151,580
W7WA	965,850
WB5VZL	931,158
NR5M	907,510
KE5FI	864,864
KS9K (WE9V,op)	860,152
K6JYO (WB6OKK,op)	784,168
NN7L	772,440
XN5RA	753,618
W5KFT	740,388

Phone Only, Low Power

Call	Score
VE4AMC	545,820
VY2SS	419,552
KH6GMP	321,776
KC9UH	314,340
VE2FGS	312,000
KR7L	307,800
N5JHV	297,424
AC6W	287,744
N6ROE	278,908
NY1E	261,744

more often (KD4DIO/N). Where were all the eastern-US stations? (WB4DNL). I can't believe the sunspots are supposed to be on the decline (K9MDQ). This is a civilized contest—you get to sleep at night! I worked 48 states in one weekend for the first time (E1SDI). Conditions were better than CQ WW! (HE7DDZ). I operated just for fun and enjoyed it a lot (PA3DFT). I fixed my beam and made more QSOs than in the last three years combined! (YU3EA). It was a good contest, despite a power outage Saturday just as the Europeans were getting loud! (W1WEF). This was my first real contest effort (NJEB). I lost my voice for two days—next year I'll get a voice keyer (WB2EAR). This was my first contest in more than 20 years—I'm out of practice, but had a lot of fun (W4LEN). The only frustration was hearing the east coast working Europe at sunrise here, but not hearing any Europeans for almost an hour (AB6FO). Propagation was okay to Europe, but marginal to most parts of the world (5Z4FO). I had a much better rig, but made a lot less points. I wonder what kind of conditions we'll have in 1992? (UA9FAR). Propagation was fantastic, and our sweat and determination pulled us well beyond our original goal (AA2GA). Operating QRP is humbling. It was hard to keep from cranking the power up (W3BGN). Conditions were great! (KS1G). I worked about half of the contest with a rotator that was stuck on Bakersfield. Trying to operate a computer and make contacts is still new to me. I can't even walk and chew gum, but I'm learning quick (AB6GY). I was surprised when I was called by a Korean station after the band seemed to have closed (AB6GS). This is my favorite contest. It's always a thrill to work a few new ones with QRP (VE6GK). I had great fun on Saturday, but had problems with my voice the second day (IK4GNH). Propagation was good, but not as good as last year. I was running a pileup of stateside stations with ZLs coming in off the back of the antenna! (YU3HR). After years of VHF contesting, this is the first HF contest I've ever entered. I found out that 100 watts and a tribander can really compete! (N5JHV). This is next to the best contest around (N9EHQ). Using a computer sure beats blurry, smudged pencil entries (ND1H). Conditions were rather poor (KG6I). I enjoyed it, in spite of the mediocre conditions. It's a great way to spend a weekend—it leaves enough time for radio, family and sleep (WB9IQI). The opening to North America made it worthwhile (DL0LU). My compliments to the US hams. They have good operating practices and spirit (PA0JUM). What a fun thing to spend a weekend on. We're still new to contesting and had an awful lot of genuine fun! (KB7JV/N). Conditions were good, but we had two hours less propagation across the pond Saturday than we did last year—Sunday was much better (GM0JKF). The first night was good here, then the West Coast stations disappeared (OH3JF). My indoor antenna wasn't very effective. I had to search and pounce for most of my contacts (WT3K/HP1). I had my best rate on CW ever! This is one of my favorite contests (NC7K). It's frustrating when you can hear, but can't be heard (VE8KM). I always have a lot of interest in this contest and a lot of TVI (F6GKQ). Conditions were excellent Sunday (PA0KDM). It was a nice contest, but I had a lot of problems with TVI (UA6LTI). The propagation was poor, but I enjoyed it (RB5LF). I've always loved 10 meters, but Holy Half-Wave! I worked 41 states, six provinces and seven countries on five continents in six hours barefoot with a vertical! (WA6LSS). I had lots of fun using just 100 watts and a quarter-wave ground plane at 14 feet! (N5PLF). In a year or two, we'll remember these propagation conditions with nostalgia (KX7L). Computerized logging makes this a lot of fun (K8SLB). These were by far the best conditions I've experienced in this contest in my ham career (WD8LLD). The contest was great, especially the second day toward the US (4N7M). This is the most fun I've ever had in a contest (KB3MP). I was impressed with the camaraderie of the participants—I seldom heard a discouraging word (KO4MW). Conditions were wonderful, the European pileups were fantastic and the CW Novices were excellent (K7MM). The conditions were exciting! (JA7MVX). This was the most QSOs I've ever made in a weekend from

Top Ten, DX

Mixed Mode, High Power

Call	Score
P40V	2,531,880
SU7M	1,667,152
H18A (JA5DQH,op)	1,552,168
E3AKU	1,289,980
JR3NZC	826,000
RBSWA	816,060
HA4XX	808,110
OH5BM	749,632
G0MFO (AA6MC,op)	669,714
JA8RWU	567,360

Phone Only, QRP

Call	Score
G4MET	47,850
JA2JSF	36,936
LA1XDA	31,248
UW0ST	21,168
TM1BP	19,520

CW Only, High Power

Call	Score
EA5WU	858,452
TK5EP	848,736
YZ3A (YU3BC,op)	753,616
E15DI	658,240
F6EEM	594,612
RC2AZ	531,024
FI5X (FB1MUX,op)	521,752
JA2AXB	385,112
VK2APK	385,050
OH7MA	315,104
ZC4CZ	307,970
DF1IK/P	298,620
OH3NXW	273,126

CW Only, Low Power

Call	Score
EA6ZY	691,424
ZD8LII	564,072
JK3GAD	426,360
JR4GPA	99,498
Y04RDN	6,656
RBSQW	5,670
UZ0XWA	3,480

Phone Only, High Power

Call	Score
KP2A (KW8N,op)	1,659,384
TO7C (F6GLH,op)	835,230
IT9A (IT9GFS,op)	826,410
GW4BLE	662,400
CT4NH	662,200
HA0NAR	630,300
HG8IE (HABIE,op)	596,070
CT3EE	543,400
CE3FIP	535,236
YU1JW	475,904

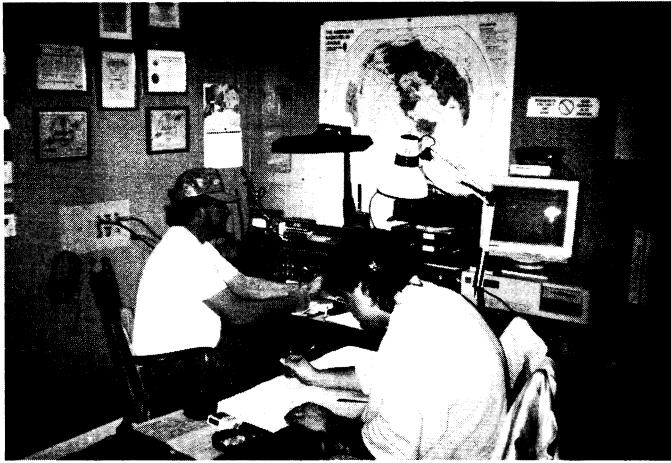
Multioperator

Call	Score
4U1UN	2,690,280
LU6ETB	2,591,148
LQ5A	2,513,140
IR4T	2,209,272
IO4A	2,042,074
TW1C	1,658,424
ZF2RC	1,505,546
ON4WW	1,434,920
GB4DX	1,418,240
F1GTR	1,405,440

as well (VE3CWE). Our lack of CW operators cost us a lot of points (PI4COM). I changed the IF in my new transceiver and decided to test it in the contest. It worked for about seven hours, but I enjoyed it (UA3DPX). It was a fine contest, but it was hard for me to make contacts with only two watts (RV3DBK). I obeyed all the rules, including my wife's, who made me sleep in both mornings (WB2DVU). I had a great time working CW and handing out those eight points. It was too bad the DX stations didn't come up the band



JA3FHL, JH3FQF, and JE3TXA (l-r) were active on CW and phone from multiop station JJ3YBB.



Earl, AA2GA, works the pileups as Lou, KA2OOG, keeps track on the dupe sheet.

Division Leaders

Division	Mixed Mode	Phone Only	CW Only	Multioperator
Atlantic	K3ZO	K3WW (N3ADL,op)	KE3Q	K3LR
Central	WX9U	KS9K (WE9V,op)	K9BGL	W0AIH
Dakota	N6ILS	KB0GII	WB0HCH	K0TT
Delta	W5WMU (KZ5D,op)	AA5FJ	N8RR	K5RO
Great Lakes	NV4H	N8CXX	N4AR	W2BB
Hudson	K2LE	WB2EAR	K5NA	K2XR
Midwest	K8SCM	N0XA	K4VX/0	NC0P
New England	K1NG (KI1G,op)	WB1GQR (WB2JSJ,op)	NX1H	K1SF
Northwestern	K0PP/7	W7WA	K7QQ	W7XR
Pacific	W1FEA	K6HNZ	NH6T	K3EST
Roanoke	AA4NC	N4ZC	K80QL	KX3Q
Rocky Mountain	W0UN (W0UA,op)	K9MWM	K7MM	KM0Q
Southeastern	N4BP	K4XS	WC4E	W4AQL
Southwestern	K6LL	K6JYO (WB6OKK,op)	KC7V	WA7ZTN
West Gulf	K5TSQ	WB5VZL	AD5Q	WM4Z
Canada	XN4QQ (VE4GV,op)	XN5RA	XO1XX (VO1MP,op)	VE7NTT

Continental Leaders

Continent	Mixed Mode	Phone Only	CW Only	Multioperator
Africa	5U7M	CT3EE	ZD8LII	—
Asia	JR3NZC	5B4AAL	VS6BG	JA8YBY
Europe	EA3KU	TO7C (F6GLH,op)	EA5WU	IR4T
North America	HB8A (JA5DQH,op)	KP2A (KB8N,op)	NP2I	4U1UN
Oceania	VK2APK	KG6DX	FK8CA	VK4WIE
South America	P40V	HK3JJH	LU7EE	LU6ETB

this station! (N2UN). A contest without any sleep deprivation—what a concept! (AA4NC). Every year I seem to be able to work all continents in less time (W9CNF). Our rates were fantastic just about the whole time the band was open (VE7NTT). The power went off for three hours Sunday during the peak European opening (CT4NH). It was a nice contest, but we had troubles with antennas and the computer (OH3NE). Conditions appeared to be much better than last year (N2LOU/T). You just can't get a single element at eight feet to talk like eight elements at 100 feet (N4MO/3). I had a great time for the little I operated. The band was so wall-to-wall with CW signals that it sounded like frantic insects (WW1P). I actually had three Delaware stations call me, for my last state for

WAS! (N1GPY/T). Conditions appeared to be good throughout the entire contest. This was, by far, the most activity I've ever heard on 10 meters (KN4QS). The fantastic European opening helped out with the multipliers (KN4QC). I had fun, but conditions were horrible to Europe (K7QQ). This was my first time with a computer and the first time I made more than 300 QSOs (WV9Q). This was my first time operating as DX (ZF2RC). I need about another 30 feet of antenna height (N8RR). I only heard one BV station in all my years as a ham, and I had two call me during the contest (K7FR). Running QRP seemed to be no handicap (WA0RJY). It was nice to work all states in a weekend (VE3RM). Murphy loved the contest! (WA7SLG). Friday night's sporadic E to the east coast was a pleasant surprise (K9OSH).

I enjoyed working CW and the propagation was very good to the US (ON5SV). I had a blast using computer software for the first time (AJ6T). This contest was more fun than I remembered it to be (WA7TWI). The DX signals were fair. I talked as fast as I could and still couldn't get everyone in the log! (KS7T). Conditions improved just in time for the contest (W9XT). I thought I'd done pretty well until I heard W0UN's score (AA6TT). The greatest surprise was that the propagation on the second day continued almost until the end of the contest (RY1U). It was great fun, as usual (4U1UN). This was the most fun I've ever had as a ham (NW1U). This was my first 10-Meter contest, it was a lot of fun (KA1FHD). I was surprised at the amount of DX, considering the conditions (WB4UBS). It was lots of fun, but the band wasn't as good. Still, we doubled our score from last year (AA5UK). All the Christmas parties at work during the weekend didn't help the score (NX7U). I never heard such good conditions on 10, even during the solar cycle peak (WX9U). I was plagued by line noise, which hurt my final score (KR9U). It was nice to get a clean sweep of the mainland states on CW (G4BUO). The contest was a lot of fun and a good way to increase my DXCC totals (W1IVB). Our newly built "shed" was well-insulated, comfortable and watertight. It added up to a great contest (K3IVO). I had a great time again this year, even though propagation wasn't the greatest (VE3VET). There was a lot of activity in the Novice section, but few /N and /Ts (PA0VDV). It's nice to be in a contest where there's space for the little guy to hold a frequency (KU2W). The great conditions, a new tribander and new tactics allowed me to increase my score by 88k! (K3GWA). It was great fun working in the contest, although I didn't have much time to operate (ON5WL). Where were all the Novice/Technician CW stations? (WO1X). I can't imagine operating in a contest without online software (WD7X). Do you think we could bottle these conditions for next year's use? (N0AX). Conditions were better than expected (N8LXS). This has always been a fun contest (K4VX/0). Were it not for heavy local QRM, I could have had 1500 contacts or even more (Y37XJ). A 50-mi/h wind gust blew down my dipole Saturday (N2LYS/T). It's rough trying to contest when you have the flu (WB4Y). I heard many CW stations on during long band openings (N4UZ). This is an attractive contest for QRPs. The band was hot (F1NZY).

Scores

DX Scores are listed by continent and country according to the ARRL DXCC Countries List. US and Canadian scores are listed by call 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 5 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.



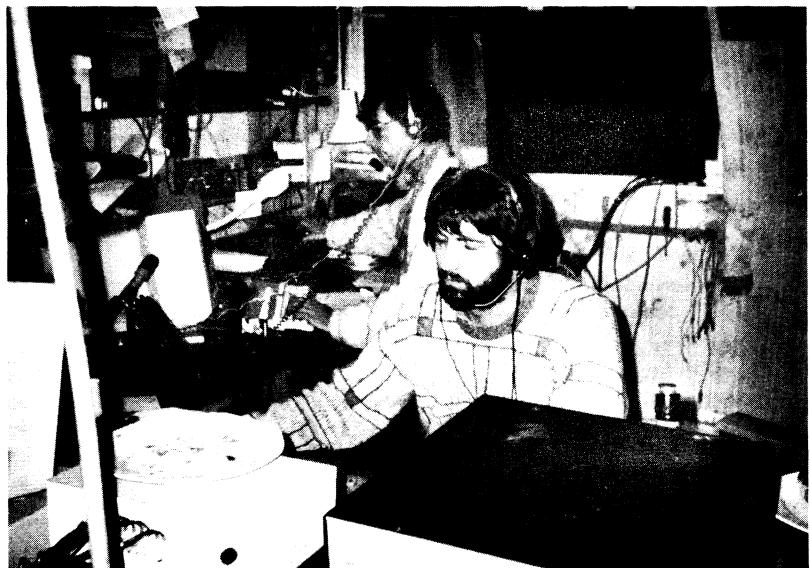
John, KD3YU, took contesting on the road and operated portable from Sideling Hill, Maryland. He reported that the toughest part of the contest was trying to walk afterwards.



Bob, KW8N, made his trip to KP2A pay off, finishing in first place phone-only, high-power.



Wayne, NQ7Q, provided many with a UT multiplier on both modes. Wayne finished in first place, mixed-mode in his Section.



Peter, ON4AAQ (l), and Mark, ON4WW, joined forces for their multiop effort.



Fabio, IT9A, finished third place in phone-only, high-power from Sicily.



Czechoslovakia											
OK3KAG	214,700	599	100 A B	SP7GIO	351,876	1239	142 B C				
OK3CDZ	36,594	189	57 A B	SP5NMH	190,744	844	113 B C				
OK3CDR	36,244	204	82 A C	SP8XF	184,452	809	114 B C				
OK1AD	28,890	131	63 A C	SP4AS	34,362	207	83 B B				
OK2SWD	25,578	114	63 A B	SP1EOI	22,932	147	78 B B				
OK3CFA	314,412	1182	133 B C	SP7FDV	19,320	161	60 B B				
OK2BHM	46,070	271	85 B B	SP6LUV/A	6,300	75	42 B B				
OK1TW	26,412	186	71 B C	SP4FGF	22,704	96	43 C A				
OK3CRH	4,270	61	35 B B	SP9BH	16,892	103	41 C C				
OK2PAY	517,880	1069	121 C C	SP5ZA	10,560	80	33 C B				
OK2PO	162,000	425	100 C B	SP1PBW	SP1Sp's AMU,BRR,ops)						
OK1AES	110,160	322	85 C B	SP4PBI (+ ops)	57,036	291	98 D				
OK3IA	86,240	272	77 C C	SP2,526	176	64 D					
OK2EC	75,168	261	72 C B	Greece							
OK2ABU	65,000	252	65 C B	SV3QR	208,008	963	108 B C				
OK1BMW	59,098	270	89 C B								
OK2PBG	52,764	218	61 C A								
OK3HJ	47,400	165	61 C C								
OK1F5M	46,420	208	55 C B	TK6EP	848,736	1684	126 C C				
OK1MMV	45,548	191	59 C B								
OK2VWB	41,912	168	62 C B	Kalinigrad							
OK1DTP	38,280	175	55 C B	UV2F (RA2FA,UA2s FJ,FM,FZ,ops)							
OK2HI	36,736	164	56 C B	1,254,750	1893	239 D					
OK1DWU	31,784	137	58 C B								
OK1DCE	22,080	120	46 C A	European Russia							
OK1SZ	17,072	96	44 C B	UZ1AWQ	221,940	817	90 A C				
OK2QX	15,120	64	45 C B	UZ3AXX	148,512	448	102 A C				
OK3CEL	14,256	106	33 C B	UA1AJW	120,560	463	110 A B				
OK2BBQ	13,816	157	22 C B	UA3ABJ	120,540	398	98 A B				
OK3KHU (OK3TJS,OK3-1309s,28601,-28370,ops)	54,832	222	92 D	UA3DPX	96,068	314	94 A B				
OK2KDS (+OK2BDX)	10,980	61	45 D	UA4OK	45,594	186	51 A B				
Belgium				UA6HK	30,874	184	43 A B				
ON4APA	205,920	500	143 A B	RA3AGN	75,816	351	108 B B				
ON5NSV	28,224	151	72 A C	UZ1TWC	37,538	272	100 B B				
ON5WVL	26,000	163	50 A B	RA6AY	288,890	785	92 C B				
ON5EU	14,200	152	50 A B	UA6SLAM	218,160	606	90 C B				
ON4ATW	147,978	698	106 B C	UA4MIW	188,440	673	70 C B				
ON6CR	37,596	241	78 B B	UA1NDR	92,276	394	58 C B				
ON5CZ	8,346	107	39 B B	UV6LIP	88,480	279	79 C B				
ON4XG	185,600	462	100 C B	UA1THF	40,480	184	55 C B				
ON6TJ	85,176	273	78 C B	UA3JCJ	23,520	120	49 C B				
ON4ACB	68,376	228	74 C B	UV3DRU	22,344	114	49 C B				
ON7NB	23,936	136	44 C B	UA4YG	21,080	170	31 C B				
ON4WW (+ ON4s AAQ,AFZ,ON6BY)				UA3JD	19,152	114	42 C B				
ON4AEK (+ ON4s AKL,FK,ON5BR)				UA3YHR	15,232	118	32 C A				
619,216	1606	167 D	UA6LT1	12,480	78	39 C C					
ON7LR (+ ON4s ASB,AWU,ON5DH)				RA4AI	12,460	89	35 C C				
545,260	1278	199 D	RV3DBK	10,864	97	28 C A					
Faroe Is				UA3DJY	10,064	76	34 C B				
OV6A	359,726	1373	131 B C	UA6LFQ	5,204	42	31 C B				
Denmark				R21A (RV1AW,UA1S,KC1ARL,ops)							
ZB9RO	57,420	236	110 A B	RA4FDJ	1,341,447	182	166 D				
ZB1BUR	50,568	227	88 A C	RA4FUD	477,216	1088	144 D				
ZB7AX	38,080	182	85 B C	UZ3GYM (RA1WQ,RA3GJ,RV3GJ, RW3GM,UA3GPA,UA3-137,105,ops)							
ZB2EV	193,284	767	126 B C	UZ1AWO (UA1s-169-900,169-1306,ops)							
ZB1HJX	70,728	421	84 B B	172,088	524	98 D					
ZB1NN	65,886	366	98 C B	Ukraine							
ZB4VW	14,416	106	68 B B	RA5WV	816,068	1377	210 A C				
ZB2DX	7,688	62	62 B B	RY1U (TU4ZU,op)	492,034	1422	131 A C				
ZB1JRL	3,392	53	32 B C	UZ5TE	118,694	480	74 A C				
ZB2BM	2,312	34	34 B C	RA5QW	5,670	60	27 A A				
ZB4NA	2,310	35	33 B C	UZ5EDU	229,320	980	117 B C				
ZB1FMO	1,792	32	28 B C	UA3BXJ	143,440	652	110 B B				
ZB3PE	131,196	375	87 C A	RA5WV	121,688	572	100 B C				
ZB1AZZ	58,208	211	68 C B	RA5WVN	9,030	105	43 C B				
ZB1DX	18,172	77	58 C B	UT5DU	1,484	38	14 B B				
ZB2EP	6,960	55	55 C B	RA6QDP	209,536	772	107 C B				
ZB1BMA	5,824	52	28 C B	RA5LJ	243,040	133	98 C C				
ZB5ZR	4,900	60	20 C C	RA5LF	212,040	597	90 C C				
ZB7AGJ (+ ZB7ABI)	97,900	445	110 D	UB5ZCW	207,328	613	88 C C				
Netherlands				UB5NU	147,456	384	96 C B				
PA8CLN	230,256	552	123 A C	UB5ZFN	123,120	402	76 C B				
PA3DFT	144,024	140	102 A C	RA5WCL	41,952	184	57 C A				
PA0JHM	35,886	1409	127 B C	RA5ZKG	21,780	99	55 C A				
PA0DUO	38,160	210	90 B C	RA5EX	19,040	119	40 C C				
PA0XQ	17,172	162	53 B C	RA5JS	16,872	112	38 C B				
PA0KDM	14,352	156	46 C B	RA4BF	15,368	133	34 C B				
PA0DDM	3,444	42	41 C B	RA5AKI	13,640	110	31 C A				
PA3FDW	598	23	13 B C	RA5EDX	8,688	97	31 C B				
PA4TB	243,100	521	99 C B	RA5CHB	3,960	45	22 C B				
PA2REH	155,028	436	89 C C	RA5ZME	2,1	1	1 C A				
PA0LOU	105,948	327	81 C C	RA4WZA (UB5WXC,UB5-068-997,ops)							
PA3BTH	79,704	246	81 C C	801,690	1261	232 D					
PA0PUR	27,336	134	51 C A	Belarus							
PA3BWK	19,488	48	56 C B	RC2AZ	531,024	842	184 A B				
PA0TA	11,200	80	35 C A	UC2OM	4,352	68	32 B C				
PA0PLN	3,900	39	25 C B	UC2OV	19,320	137	35 C A				
PA3EPN (+ PA3AEGKA,PA3EBG,PA3EAC,PA3EJL,ops)				RC2AY	14,448	172	21 C B				
P0DPN(K)	1,232,916	1665	254 D	Moldova							
PA1COM (PA3ERC,EW,PA3FQA,NL10373,ops)				RA0OA	248,800	622	100 C B				
P08AIU (+ PA2ER,PA3PAK,BSQ,EPD,FWV, PB8ALB)				UO5OA	50,328	233	54 C C				
PA3DWD (+ PA8COR,PE1LAU)											
603,176	1796	168 D	Lithuania								
P14TUE (PE1s LYCD,PA3E2Z,PA3E3L,ops)				LY2FF	12,300	75	41 C B				
P14DEC (PA3 AWH,DEW,ERA,FAQ,PA0s MRG,TUK,ops)				LY2BK	8,100	75	27 C B				
PA3ESQ (+ PA3EKA)	257,040	1020	126 D	Colombia							
P14ZLD (PA3EOB,-NL10895,ops)				CE3BFZ	153,720	442	122 A C				
144,256	462	98 D	PA3FIP	535,236	1833	146 B C					
Sweden				RA1FNF	240,240	632	132 D				
SM5PPS	88,344	251	108 A B	YU6JN	6,656	79	26 A A				
SM5SDUT	11,058	97	57 A B	YU7LFV	87,398	491	89 B B				
SM7DXQ	73,352	346	106 B C	YU2LBN	46,394	372	86 B B				
SM5NUZ	36,626	261	74 B C	YU9FEH	2,158	43	18 B C				
SM4HEJ	22,240	139	80 B B	YU3CR	3,784	43	22 C A				
SM7HCW	20,064	228	44 B C	YU6FGN	2,040	30	17 C A				
SM4BTF	1,242	27	23 B C	YU5GX	202,272	488	129 A B				
SM5IMO	343,684	803	107 C C	YU7ZG	3,808	43	28 A C				
SM5MPX	24,100	270	82 C C	YU1JW	475,904	1664	143 B C				
SM5INC	192,832	524	92 C C	YU1JW	47,036	194	77 B C				
SM6BSK	146,400	363	100 C B	YU3JR	363,688	1314	146 B C				
SM3CV/M	113,232	337	84 C B	YU3HA	192,098	828	116 B B				
SM6BDBS	71,808	222	88 C B	YU2GUJ	35,372	239	74 B C				
SM5SRI	23,808	190	62 C C	YU2ZA (YU3BC,op)	2,134	108	45 C C				
SM1CN5	20,736	106	48 C A	YU3BU	420,084	890	118 C C				
SM5PAX	8,928	62	36 C C	YU7SF	147,828	379	97 C C				
SM4TUAU	8,844	67	33 C B	YU1HA	146,520	411	90 C C				
SM4TUX	3,404	37	23 C B	YU2AJ	129,535	350	92 C A				
SK6BUX (SM6s JHF,PMV,TOX,ops)	487,626	873	192 D	YU4RA	89,392	301	74 C A				
SK6AW (SM6s ASD,CVE,DED,DER,EHY, HCX,IQD,ops)	353,400	970	165 D	YU7TM (YU2TY,YT7s AC,NW,UY7s AL, RV,ops)	1,170,780	1912	237 D				
YU3EE (+ NET)	466,892	1061	151 D	YU3EA (NET,+ NET)	466,892	1061	151 D				

AA2BK	22,218	161	69 B B	KE3Q	846,536	1553	131 C C	KN4OX	4,200	100	21 B B	WM4Z (+ KM5H,N5CG)	W6AB (N6GC,W2J,ops)		
N2NHP/T	756	27	14 B B	KN5H	482,096	1037	116 C C	K4MF	604,144	1220	122 C C	1,425,028	2173	233 D	
WA2VYA	318,280	727	109 C C	W3GN	257,040	601	105 C C	WD4AHZ	461,448	972	117 C B	WB5U (+ N5TKT)	608,580	1245	189 D
KR2Q	251,200	625	100 C A	W3GG	190,624	57	92 C C	W1D (+ K2KL,KC4HQS,W8B,WTJK)	170,742	410	143 D				
WF2Z	52,992	206	64 C C	WA3EEE	121,200	396	75 C B								
KA2SSX	7,280	61	29 C B	WK3P	83,232	283	72 C B	Tennessee				Santa Clara Valley			
N8OKS	2,040	32	15 C B	W3CPB	69,836	220	79 C B	K4KG	204,452	429	158 A B	K5TSQ	1,669,294	2435	253 A C
K2XR (K2s JWE,OWR,KT2B,N2s AIH, KWO,WB2WIK,ops)	1,053,360	1618	231 D	W3DAD	65,964	234	69 C B	WD4OHD	141,000	402	128 A B	K5RP	1,214,304	2062	208 A C
AA2GA (+ KA2OOG,N2J/FA)	358,248	1296	138 D	K3EI	57,084	198	71 C C	W3DJO	93,808	300	104 A C	KC5CP	352,500	724	141 A B
WB2PSD (+ KC2GE)	228,030	559	165 D	W3EE	42,000	177	59 C C	WA6KUI	61,598	247	83 A C	K6HNZ	277,500	532	185 B C
				W3V3	21,652	112	60 C B	NA4USG	46,288	201	66 A B	K16CG	102,454	1073	99 B C
				W8AMCO	988	22	11 C A	AC4HF	18,270	113	65 A C	N6TYV	74,620	263	91 A B
				K3IV (K3s HOI,YDX,K3TYR,N3NCB), NN3O,W3P,W3A3,K2R,TID,WG3R,	121,200	396	75 C B	K2SX	36,190	238	77 B B	KC8NQA	54,888	470	58 A B
				W8BVG1,ops)	478,564	1190	181 D	KO4MW	20,020	182	55 B C	A6J6T	32,776	241	68 B B
Southern New Jersey				W2T (+ KA3OPG)	123,392	455	128 D	KC4URW/T	10,890	121	45 B B	WB5PGL	6,664	67	49 A B
K2YV	946,992	1551	218 A C	W3HEI (+ N3J/Q)	20,944	187	56 D	WD4TDB	7,900	79	50 B C	WB6YRU	9,960	87	40 B C
K2PS	382,720	711	160 A B	W3E	1,119,024	1700	227 A C	W4OOG	3,250	65	25 B B	KD6SL	4,060	58	35 B B
N2BCF	92,020	280	107 A C	W3C	1,003,950	1606	225 A C	W4XJ	632,000	1264	125 C C	K4E2P/N	864,864	2806	154 B C
KB2F	172,788	726	119 B C	K5ZD3	208,620	400	183 A C	W4PRO (WB8HD,op)	448,000	1001	112 C C	N6ZD	215,444	1061	102 B B
N3GOW	84,840	420	101 B C	K5ZD3	19,680	164	60 B A	W4TYU	32,640	136	60 C B	N6ZB	303,008	675	136 C B
K2GAL	68,586	497	69 B C	K3YRQ	56,952	284	84 A B				K6HN	104,664	294	89 C C	
K2E2W	27,336	201	68 B C	K3AJIX	20,640	167	60 A B				N5OHO	111,072	624	89 B C	
K2JF	9,630	107	45 B B	K3YRQ	20,640	167	60 A B				W6RVY	76,736	436	88 B B	
N2AWC	8,528	104	41 B C	K3YRQ	20,640	167	60 A B				WD6DXH	60,268	243	61 C A	
K2MK	307,424	734	104 C C	W3EW	2,300	50	23 B C				N6YE	40,480	180	55 C B	
W2NZH	87,492	312	69 G A	W3INX	6,970	67	41 A B					19,436	112	43 C B	
K2ZA	57,460	221	65 C B	W3GNC	32,708	221	74 B B								
AE2N	29,596	150	49 C B	W3GNC	28,810	215	67 B A				San Diego				
K2S2T (+ op)	1,326,120	1716	258 D	W3GNC	24,480	180	68 B A				N6UOF	818,742	1503	183 A B	
Western New York				W3GNC	19,680	164	60 B A				W6UFY	180,040	476	140 C A	
W2J0	844,360	1354	202 A C	W3GNC	19,680	164	60 B A				K6KXN	156,552	431	132 A C	
KM2L	216,788	512	143 A B	W3GNC	19,680	164	60 B A				W8OZA	105,000	333	100 A A	
KD2YP	168,480	381	144 B A	W3GNC	19,680	164	60 B A				KC8VWN/W	19,800	162	60 A B	
WB2DVU	128,000	317	128 A C	W3GNC	19,680	164	60 B A				K6JYO (WB6OKK,op)				
W2YRH	76,704	300	102 A C	W3GNC	19,680	164	60 B A					784,168	2926	134 B C	
NW21	46,844	168	98 A A	W3GNC	19,680	164	60 B A				KD6QK	119,756	658	91 B C	
K2CF	40,194	199	77 B A	W3GNC	19,680	164	60 B A				A6UU	61,008	372	82 B B	
W2OMV	36,666	172	63 A B	W3GNC	19,680	164	60 B A				N6K	24,750	375	45 B C	
K2E2U	19,040	165	56 A B	W3GNC	19,680	164	60 B A				K6NY	125,800	418	74 C C	
N4TW	10,086	89	41 A B	W3GNC	19,680	164	60 B A				A6EE	62,444	233	67 C C	
N2BJX	306,250	1225	125 C	W3GNC	19,680	164	60 B A				KD6BZ/T	15,289	88	39 C B	
NA2A	270,000	1000	135 B C	W3GNC	19,680	164	60 B A				W6MVW	2,48	34	18 C C	
N2IZJ/T	92,568	532	87 B B	W3GNC	19,680	164	60 B A				KZ6X (+ KF6BL,N6WLX)				
K2F2A	29,400	245	60 B A	W3GNC	19,680	164	60 B A								
K2NLB/E	21,518	203	53 B B	W3GNC	19,680	164	60 B A								
KB2KNU/N	13,344	139	48 B C	W3GNC	19,680	164	60 B A								
W2MTA	12,204	113	54 B B	W3GNC	19,680	164	60 B A								
WA2KUV	10,752	112	48 B B	W3GNC	19,680	164	60 B A								
KB2QVNT/V	6,120	85	36 B B	W3GNC	19,680	164	60 B A								
N2MS/ET	4,884	76	26 B B	W3GNC	19,680	164	60 B A								
K5FJ	3,834	71	27 B B	W3GNC	19,680	164	60 B A								
KW2J	149,912	454	82 C C	W3GNC	19,680	164	60 B A								
WA2EYA	97,552	363	67 C B	W3GNC	19,680	164	60 B A								
K2SM	90,880	316	71 C A	W3GNC	19,680	164	60 B A								
KB2JZH	14,504	107	37 C A	W3GNC	19,680	164	60 B A								
N2KPR/T (+ N2LES)	8,448	74	48 D	W3GNC	19,680	164	60 B A								
3															
Delaware															
AC3T (KA8,op)	346,250	1273	136 B C	Alabama	226,086	468	147 A B	K4PIC	226,086	468	147 A B	K5GVO	142,800	430	119 A B
NW3Y	176,870	769	115 B C	W3DAD	349,184	188	176 C A	WD4DNL	28,944	132	54 C B	W5KFT	740,388	2607	142 B C
N3KCB/T	5,940	90	33 C B	W3DAD	20,400	131	50 A B	W4SNH	19,040	83	56 C A	W5ASP	500,000	1005	125 C C
K3HBP	22,912	516	108 C C	W3DAD	98,560	448	110 B B	WD4UBD	14,588	408	36 C C	K5ZGK/T	34,720	824	102 B C
N4MO/3	183,552	478	96 C C	W3DAD	92,150	195	97 B C	K4CATD	10,406	211	43 B C	W5COP/T	1,200,180	1677	241 D
N8NA	100,928	301	83 C A	W3DAD	41,106	221	83 C B	K04ER	19,368	104	95 B C	OLSI			
W3NX	85,484	274	78 C B	W3DAD	70,740	165	70 B B	W3FTG	3,024	36	21 C B	K4R4J	155,006	362	121 D
K3F3F (+ NX3A)	1,453,568	2253	256 D	W3DAD	17,100	212	108 C C	WD4LVM (+ NET)	1,593,312	2148	264 D	N6RZ	504,792	1123	164 D
Eastern Pennsylvania															
WE3E	1,042,452	1770	207 A C	Kentucky	1,666,008	2256	243 A C	N5QJH	31,270	211	59 A B	W6BSY	19,548	100	54 A B
N3HHE	202,168	540	148 A B	W3DAD	349,184	188	176 C A	WD4DNL	216,256	99	109 B B	W6BSY	143,352	724	99 B C
WT3P	153,690	382	141 A B	W3DAD	160,000	448	100 A B	W5ESS	36,844	196	61 A C	KC6AWX	28,380	215	66 B B
N3KAQ	104,340	322	111 A B	W3DAD	242,060	393	130 B C	WD4PUQ	19,928	188	53 B C	KB6FSF/SN	23,816	184	62 B C
N3ED	101,504	252	122 A C	W3DAD	145,612	617	118 B C	W5MUG	40,242	353	57 B B	KC6W/G/T	20,808	161	54 B C
KC3M	87,924	257	102 A B	W3DAD	50,244	237	106 B C	WD4X	161,604	1261	127 C B	K6H6X	20,808	161	54 B C
N3EOK	70,776	259	90 C C	W3DAD	70,740	165	70 B B	WD4X	21,036	101	51 B B	KH6DW	216,832	968	112 B C
NT3F	55,500	126	80 C C	W3DAD	12,520	223	80 C C	WD4X	21,036	101	51 B B	K6H6X	140,200	741	100 B B
W3BGN	25,344	131	66 A C	W3DAD	4,048	267	87 B B	WD4X	17,484	435	132 A B	K6H6X	32,496	863	94 C C
WB3ZDF	15,344	136	56 A B	W3DAD	40,680	226	90 B B	WD4X	41,480	244	85 B C	W6PYX	169,050	408	147 A B
WB3FAA	4,980	77	30 A C	W3DAD	42,740	1405	145 B C	WD4X	36,844	196	61 A C	K6VQVN	66,424	473	76 B C
AG3G	1,258	21	17 A B	W3DAD	329,440	1420	145 B C	WD4X	19,928	188	53 B C	W6FAH	58,344	474	51 A B
K3WW (+ N3ADL,op)	510,440	1823	140 B C	W3DAD	205,750	823	125 C B	WD4X	36,844	196	61 A C	K6J6J	273,600	1200	114 B C
NY3Y	98,364	473	104 B A	W3DAD	201,828	726	139 C B	WD4X	24,350	104	95 B C	K6B8M	265,664	1186	112 B C
N3FOG	83,022	411	101 B B	W3DAD	46,458	267	87 B B	WD4X	21,036	222	61 B B	K6B8K/HN	265,000	905	90 B C
K3TEJ	297,050	265	75 B B	W3DAD	40,680	226	90 B B								

K7GS	181,916	508	89 CA	WB8MTT	61,370	361	85 BC	WB9Z	1,189,656	2086	246 A C	K0GAS (+ KJ0G)	730,380	1515	195 D	Nova Scotia		
N7WI	41,184	198	52 CB	N8LMT	52,460	305	86 BB	N9AEJ	553,444	1014	166 A C	NN0M (+ N8ZA)	433,320	905	157 D	XN1AOE		
KB7OHC/N	18,500	114	37 CB	N8OZL/T	46,970	305	77 BB	KF9FL	305,748	583	171 A C	KF8JY (+ KB8JLL)	25,172	217	58 D	VE1HFV		
Idaho				KF8JA	42,120	270	78 BC	KF9BIB/T	151,848	395	114 A C	Iowa				Prince Edward Island		
KB7LFO	22,500	245	45 A B	KE8NH	35,550	237	75 BC	N9R0	100,596	405	101 A B	WE8M	277,020	631	162 A C	VX2OX		
KA7NOC	5,070	50	39 A B	N8NJA/T	19,950	175	57 BB	WE9A	84,456	412	102 A B	NE8P	128,801	362	112 A C	VY2SS		
KG7WZ	17,808	159	56 BB	KABQCU/T	11,438	133	43 BB	KB9CRY	62,292	248	87 A A	AA8AI	57,201	166	104 A C	Quebec		
KA7T	253,068	719	88 CB	WB8NFX	35,108	262	67 BB	N9UQN	95,056	304	104 A C	KE8WO	92,752	409	97 A C	XN2AWR		
WA7QDM	148,392	458	81 CB	N8IQS/T	10,368	108	48 BB	KE9YR	34,320	189	50 A B	K0SRL	13,254	113	47 A B	VE2FGS		
AA7JM	110,136	348	78 CB	N8LB/T	9,360	117	40 BB	WB9TIV	12,512	100	46 A B	W0PWF	59,928	361	83 B C	VE2EW		
N7MPS	46,080	240	48 CB	WB8WGX	5,472	72	38 BB	N9GGE	12,168	93	36 A B	K0EV	23,661	169	70 B C	VE2UL		
W7RHA	27,440	140	49 CB	N8NJE/T	2,240	56	20 BB	N9JAL	10,268	147	34 A C	K0DR	19,691	229	43 B C	VE2FFE		
KK7A	8,816	75	29 CA	AABAV	293,864	672	109 CB	W9REC	6,952	60	44 A B	K0CWC/T	7,820	115	34 B C	VE2BLX		
Montana				KV8H	254,520	628	101 CC	K9MD0	372,096	1368	136 CB	WB8JCT	10,400	100	26 CB	4,600	46	25 CA
K0PP/T	1,181,664	2551	176 A C	WB8BT	113,552	302	94 CC	N9JF	86,086	473	91 BB	NC0P (+ KB8JSH,N8A,NU8Q,				Ontario		
KS7T	539,110	1330	145 A C	KBLQ	104,160	362	70 CA	AD9K	63,336	364	87 BB	WD8GVT,W0W0,V0W0,W1W0	1,356,272	2069	232 D	VE3PN		
KB7GDO	99,372	490	78 AB	W8WVU	31,400	156	50 CB	N9LYK	40,480	253	80 BB	Kansas				XN3AT		
W7LR	85,988	297	74 A C	N8CQA	25,920	160	40 CA	N9AVP	32,112	223	72 BB	AA0FB	185,310	1063	87 A C	VE3MSN		
KC7NX	255,730	1195	107 BB	WB8S	24,800	155	40 CC	WB9XJ	28,200	235	60 BB	WB8YKX	80,070	279	91 A C	VE3FWQ		
KA8SVY	12,000	150	40 BB	N8YL	2,652	38	17 CB	N9KBS	26,314	223	59 BB	WB8W	60,152	305	73 A A	VE3ZD		
N7MVX	952	26	17 BB	N8KMQ	2,072	33	14 CB	N9MBKT	21,660	190	57 BB	N9XA	633,548	2126	149 B C	VE3NET		
A7BG	355,308	1014	87 CB	WB2B (+ N3KOU,K9MJU,KCBEK,KF8s	1,514,106	2316	243 D	WB9EXD	21,120	192	55 BB	WB8YJT	67,374	591	57 B B	VE3RM		
Nevada				DF,OE,N8CC)	1,514,106	2316	243 D	N9KCVW/T	20,736	192	54 B B	WB8PF	36,260	259	70 BB	VE3SRH		
WA7CWM	521,424	1240	153 A C	WB8QPi,ops)	91,506	441	101 D	WB9DWQ/N	20,292	178	57 BB	K0IEW	34,128	237	72 B C	VE3WOR		
W7H0	8,584	75	37 AB	WB8UM (N8LUC,N8TC,W8DDDX,ops)	2,438	53	23 D	KE9BL	6,440	70	46 B B	WB8CEM	30,814	21	71 B C	VE3BR		
N5PLF	105,264	612	86 BB	N8FV	144,156	381	123 CA	N9HFW/T	2,142	51	21 BB	K9BGL	530,868	1079	123 C C	VE3C8E		
NC7K	244,992	696	88 CB	Ohio	385,624	767	172 A C	K9Z0	503,608	1048	119 CC	K0LTO	8,436	114	37 B C	VE3C8E		
Oregon				WB8PHI	258,680	563	145 A C	WB8JH	456,054	1014	112 C C	WB8SHF	7,752	102	38 B B	VE3ST		
K7RO	887,840	1882	179 A C	KF8HR	250,416	530	148 AB	KA6A	245,244	569	107 CB	K0CKN	5,208	34	31 B C	VE3WZ		
NO7F	387,150	1221	145 A C	N8AA	173,990	400	127 A C	NN9K	104,272	332	76 CA	N9FMR	153,824	430	88 C B	VE3EJ		
WD7X	362,934	1132	153 A B	WB8LC	168,640	339	136 A A	K9WA	90,576	304	74 C B	K0CEI	69,000	251	69 C C	VE3XO (+ VE3s CKF,ICR,MV,WA2MMN)		
WM0B	123,872	391	112 A A	N8FU	144,156	381	123 CA	N9FFZ	82,960	241	85 C B	WB8WP	61,100	235	65 C C	1,211,410	2324	229 D
KG7DK	71,894	235	103 A B	K8NI	111,996	328	122 A B	WB9DA	82,524	299	69 CB	KSTU	31,960	170	47 C B	Manitoba		
W7IMP	68,580	187	127 A C	WA8YRS	108,306	356	99 AB	WB9L	77,952	230	84 B C	NE4F	27,636	147	47 C B	XN4QQ (VE4GV,op)		
N7AVK	568,198	2237	127 B C	N8GD	96,600	302	105 A C	K9CW	28,800	150	48 C B	WB8HF				962,542	1911	197 A B
K7ZSD	322,920	1495	106 B C	WB8V	94,302	290	117 A C	AK9Y	22,048	106	53 C B	K0CKN				VE4AMC		
K7VIT	154,870	911	85 B C	K8BL	88,816	280	104 A C	WB9IWP	11,060	78	35 C A	N9LS	505,506	1265	173 A B	VE4JB		
A17B	104,250	695	75 B C	N8F8	66,922	244	99 CA	WB9JX	9,108	93	23 C B	WA2HF	123,824	510	109 A C	XN4VV (VE4s VV,XT,ops)		
WS7O	78,624	432	91 B B	WB8YGR	51,240	141	122 A C	WB9NP	5,300	53	25 C A	KB8GII	342,516	1241	138 B C	1,140,304	2468	209 D
KA7WFB/N	14,628	138	53 B B	K8KR	35,244	215	66 AB	K9FD (+ K9C9AL,N2W0V)	941,262	1663	219 D	AC0W	287,744	1124	128 B C	Saskatchewan		
WB9HZT	7,800	100	39 B B	WB8JE	31,650	211	75 C A	WB9AS	117,120	420	120 A B	KI6NT	44,844	303	74 B C	VE5DX (VE5MX,op)		
A7AKF	290,852	794	89 CB	KABVPL/T	23,808	164	64 CA	K9DIY	5,600	66	25 AB	KB0ZPP	37,576	244	77 B C	Alberta		
KI7Y	133,444	453	73 CB	WB8WT	11,266	77	43 A B	WB9AQ	22,048	106	53 C B	WB8SMX	35,770	245	73 B C	VE5SS		
W7TC	108,680	411	65 CB	N8F8	8,272	72	44 A C	WB9I	13,216	405	118 D	K0AZIA/T	15,300	510	151 B C	VE5MX		
NK7U (+ N7TT)	1,092,902	2375	171 D	WB8RCN	6,902	119	29 AB	N9EHQ	93,408	301	111 D	N2JVR	7,344	102	36 B B	XN5RA		
KU7K (+ KA7ARC,N7s)	5,184	57	36 A C	WB8XG	5,610	62	33 AB	WB9JX	80,200	401	100 B B	WB8WWW	323,596	747	108 C C	VE5MH		
LLU,Q2A,RBN,WB7DSH	60,606	833	88 CB	N8XAB	1,936	30	22 A C	WB9GJ	46,818	266	88 B C	KN0V	14,420	100	35 C B	VE5AD		
WB7UFJ (+ KA7WH)	217,056	577	119 D	N8MSF	447,858	1611	139 CB	K9HBN	9,828	97	42 AB	KB0ZQ	147,960	407	90 C C	VE5CPU		
KG7T (+ K7JLF,KB7R0A,N8s,Owi,Td1)	61,944	348	87 D	WB8KFF	291,084	145	144 AB	K9DLY	2,496	71	34 AB	WB9RPI	104,488	353	74 C C	VE5GC		
Utah				N8NCF	291,084	145	144 AB	WB9DQ/T	2,872	1071	134 BC	K9T/K	104,488	353	74 C C	Alberta		
NQ7Q	5,184	57	36 A C	WB8LW	2,496	52	24 AB	K9DLY	2,872	1071	134 BC	WB9RPI	104,488	353	74 C C	VE6ARX		
K7P7	60,606	833	88 CB	N8NCF	40,290	126	86 BB	WB9DQ/T	4,650	75	31 BB	N9LS	213,312	1037	101 A B	VE6RW		
K6XO	395,592	126	106 C C	WB8PEF	36,652	238	77 BB	WB9IQ	116,820	531	110 B C	WB9JZV	123,824	411	112 A B	VE6BMX		
KG7IE (+ K7JLF,KB7R0A,N8s,Owi,Td1)	134,734	623	101 D	N8NCF	35,154	189	93 BB	WB9IQ	9,408	112	42 B B	WB9JZV	123,824	411	112 A B	VE6GK		
N7RXET (+ KB7NHR)	27,666	249	53 D	WB8XG	26,208	208	63 BB	KE9I	310,400	797	97 C B	NB8NG	138,818	1189	233 D	VE6SH		
WA7SLG (KB7NB,N7QGH,ops)	2,964	57	26 D	WB8XG	25,752	222	58 BB	WB9XJ	169,944	304	96 C B	NB8NG	138,818	1189	233 D	Saskatchewan		
N8NCF	302,976	96	96 C A	WB8UB	159,900	192	130 CB	N9XW/T	15,036	142	42 C C	WB9XJ	141,528	2348	236 D	XN6WO (VE6W0,op)		
W7JAU	219,876	751	73 CB	WB8WTS	120,080	153	98 CB	N9JAK	2,496	37	24 AB	WB9XJ	141,528	2348	236 D	VE7NTT (+ VE7NNK)		
N7EPD	202,500	612	81 CB	KD8FN	114,552	385	74 CB	WB8WV	86,150	272	159 B C	WB9XJ	141,528	2348	236 D	1,694,024	3221	214 D
N7RPUJ	202,500	612	81 CB	N8WDM	15,096	101	37 C A	WB9WV	10,992	204	49 BB	WB9XJ	141,528	2348	236 D	VE7ZZZ (VE7s AV,DSB,SSB,RBL,SK,ops)		
N7HUS	169,452	516	81 CA	WB8WDM	8,580	65	33 CB	N9IE	11,622	149	39 BB	KZ6E0/+ (K8JN)	768,812	1207	173 D	WB8YIU (+ N8NG)		
KX7L	50,960	243	52 CA	N8AVB	8,236	71	29 CC	WB9ZRW	8,600	100	43 BB	WB8YIU	65,110	383	85 D	WB8YIU (+ N8NG)		
N7TGT	17,920	112	40 CB	WB8UR	4,644	43	27 CC	KE9QV	8,514	99	43 BB	WB8YIU	13,536	141	48 B C	Northwest Territories		
W7XR (+ K7s,KETv)	2,097,740,3045	265 D	WB8WPB,+ (WB8PK,KB8BQK,KD8YR)	755,244	1797	189 D	WB8WPB	6,318	81	39 BB	WB8WPB	398,736	852	117 C C	VE8KM			
WA7EGA (+ WB7AVD,WS7)	1,657,044	2649	229 D	N8QJO (+ NET)	281,520	688	170 D	WB8WPB	2,038,012	2726	274 D	WB8WPB	392,940	885	111 C B	Checklogs		
N7TT (+ KA2KRA)	1,230,586	2631	203 D	N8WBF (+ WA2UJH)	2,025,500	637	81 D	N9WV	0			WB8WPB	10,828	179	66 A C	A7LE,L,DF5J,DF5D,KSKJ,		
Wyoming	1,047,072	2037	208 A C	N8KES (+ NET)	107,156	300	89 D	N9WV	343,656	766	111 CB	WB8WPB	126,600	232	80 A C	E45BD, E45D, E45F, E45G, E45H, E45I, E45J, E45K, E45L, E45M, E45N, E45O, E45P, E45Q, E45R, E45S, E45T, E45U, E45V, E45W, E45X, E45Y, E45Z, E45A, E45B, E45C, E45D, E45E, E45F, E45G, E4		