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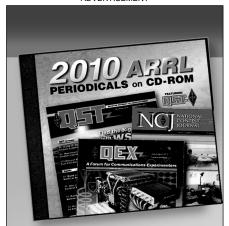
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1996 ARRL November Sweepstakes CW Results

By Randall A. Thompson, K5ZD

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and
Billy Lunt, KR1R
Contest Manager

lan was nearly frantic. A simple project that should have taken only a few minutes had already lasted more than three hours. He checked his watch. The ARRL November Sweepstakes would start in less than 60 minutes. Whether he was ready or not, operators from around the US and Canada would begin their annual treasure hunt for QSOs, section certificates, division plaques, Clean Sweep coffee mugs, and PINS awards. Alan didn't want to miss it!

A last-minute antenna project had gone terribly sour when Alan momentarily lost his grip on the antenna. The weight of the 80 meter dipole quickly pulled the rope through the pulley holding it up high in the tree. As everything collapsed to the ground, he thought, "Why didn't I just leave well enough alone?" Instead of relaxing before the start of the contest, he got to spend hours in the cold weather trying to repair the damage.

With minutes to spare, Alan sat down in front of the radio, started the computer logging software, and checked the SWR on the repaired antenna. Ah! Perfect! He hoped that would be the last he saw of Murphy for the weekend.

Alan found a clear frequency and started the contest with a snappy CQ. It was exhilarating as he raced to enter one call after another into his log. He concentrated on copying each exchange perfectly. Competition was usually so close that he didn't want to risk losing any contacts when the ARRL Contest Branch checked his log.

Alan quickly settled into the rhythm of the contest. He loved the long Sweepstakes exchange, with its roots in the early days of traffic handling. He never tired of chasing sections in pursuit of a Clean Sweep. He marveled at the QRP entrants' ability to squeeze their tiny signals in amongst the big guns. Familiar calls he had worked many times blended together with those of newcomers enjoying their first taste of radio competition. These were just some of what always made the first weekend in November so special.

As he was entering a contact, Alan's logging software emitted a beep of protest. It refused to accept "NNY" as a section. Alan pounded his fist on the table as he remembered the addition of the new Northern New York Section. He had forgotten to add it to the multiplier list. He completed the QSO using the keyer paddles and frantically exited the software and brought up the editor. As the software restarted, Alan made a mental note to do a better job of preparation for

Top Ten	. CW						
Single Operator, QRP		Single Operator, Low Power		Single Operator, High Power	Multioperator		
K1TR	112.050	KRØY	209,508	W5WMU (N6TR,op)	223,236	K1ZX	224,640
NØAX	107,464	K8HVT/KP2	201,432	N5RZ	220,740	AA5B	215,754
K7MM	102.960	KP4TK (at NP4Z)	201,240	WØSD (WDØT.op)	219,604	KS9W	193,752
KØEJ	100.950	N4ZZ	189.072	K4VX/Ø (WX3N.op)	214,500	K5RV	191,100
K9OM	93.328	KØEU	180.804	W6GO (N6IG.op)	212,472	KY1H	186,108
W7YAQ	91.322	AA7BG	174,040	W5KFT (WN4KKN.op)	209,440	WA8ZDT	180,024
KØFRP	90.144	K4XU (at KØKE)	170,170	W7RM (AA7NX,op)	206,544	N6KI	176,748
KØRI	88,160	W4WA (AA4GA,op)		K7UP (KN5H,op)	206,388	K6XO/7	175,500
WB9HRO	86.700	AC10/4	162.084	WB0O	206,206	N6ZS	175,344
WAØRPI	85,824	W7ZRC	161,854	KØRF	205,744	KØWA	166,440



Tom, K7PJT, has been having trouble finding the Wyoming Section in the past, but *not* this year, he reports. Tom, says, "Sweepstakes is right up there with Field Day for fun!"

the next contest. Both of his early problems had been things that could have easily been solved weeks before!

Late Saturday evening, the receiver suddenly went quiet. "Strange," thought Alan. When he touched the key to transmit, the amplifier instantly tripped off line and Alan knew something in the coax or antenna system had failed. "Why does a station that has worked perfectly for months suddenly fail during a contest?" Alan asked himself—not expecting an answer. He knew that this kind of unexpected challenge helped keep his interest in radio competition high. He marked an off time in the log and started troubleshooting.

"I am not quitting," he thought. "With six hours of off time I can fix this without hurting my score. But I wonder what else Murphy will deliver before this contest is over?"

High Power Category

The high-power race was an interesting mix of stations and strategies. When the log-checking dust had settled, Tree, N6TR, piloted W5WMU in Louisiana to a repeat victory. Tree had had his share of challenges, including a coax connector failure that

forced him to take a 30-minute off time during the *first* hour of the contest! After the break, he went directly to 40 meters and proceeded to spend the next seven hours at a rate that averaged over 90 contacts per hour! He was one of the few operators who found 40 productive all night, and ended up with over 1000 contacts on the band. Sunday evening, Tree spent some time in the 40 meter Novice band and was rewarded with a small pile-up. Could those contacts have been the difference?

After watching K5GA finish in second place last year, Ralph, N5RZ, took the chair himself this time—only to duplicate the result. Despite damage from a summer lightning storm, Ralph was able to cobble together enough working antennas to compete. From his West Texas location, Ralph found 40-meter skip too long most of the evening and was forced to go to 80. As Ralph put it, "If anyone told me before the contest I'd make more QSOs on 80 than 40, I'd have told them they were crazy."

Third place went to Todd, WDØT, operating from WØSD in South Dakota. Todd had his best finish and score ever, while breaking the Dakota Division record. He took full advantage of his central location to pound 40 meters with a full-size three-element Yagi to the east and a two-element Quad to the west. An 80 meter dipole at 160 feet kept the rate up during the late night hours. Missing the neighboring state of Wyoming cost Todd a Sweep and a place in the standings.

In fourth place was Dave, WX3N, operating the superstation of K4VX in Missouri. W6GO operated by N6IG took fifth and bested AA7NX (at W7RM) for top West Coast honors. The seventh- through tenth-place finishers were separated by less than 800 points—a difference of only 12 contacts! The top score from back East was KE3Q, who finished 23rd place overall.

Low Power Category

The best story of the contest has to be the

incredible low power score of Jeff, KRØY. In addition to repeating as champion of the low power category, Jeff posted a score that is an all-time record for the category—and would have placed him *sixth* in the high power Top Ten! Breaking into the overall Top Ten with low power has only occurred once before in the past 25 years.

Lest you think this requires a massive station, Jeff operated from a 100×150-foot city lot in suburban Dallas. He used two radios that were connected through a fully automated antenna- and headphone-switching system. For extra flexibility, the weekend before the contest Jeff added a small tribander mounted on his chimney at the 25-foot level. It paid off by helping him break the huge 20 meter pile-up on N7NG in Wyoming Sunday afternoon for the Sweep.

The battle for second place was a photo finish between two stations in the Caribbean. Ahead by a nose was Hal, K8HVT, operating from St Croix in the US Virgin Islands. His antennas were only 35 feet above the ground, but he had the added advantage of being on the edge of a 900-foot drop toward the states (not to mention being surrounded by saltwater). He made most of his contacts on 15 and 40 meters, since he just couldn't make a dent in the 20 meter QRM. Hal had every section call him except Wyoming, which he missed for the Sweep.

Just behind, and repeating his third place finish of a year ago, was Eric, KP4TK. Eric operated from NP4Z, which also provides a high hilltop with excellent terrain toward the US. Eric got his Sweep but came up only three contacts short of second place!

Despite declines in the scores of the high power Top Ten; the low power category saw significant score increases. Don, N4ZZ, improved his score from 1995 by over 12%, set a new division record, and still remained in fourth place. The exception was Randy, KØEU, who saw his score drop from the previous year, which moved him down to fifth.

Matt, AA7BG, missed VE1 and VE2 but still broke into the Top Ten for the first time, finishing sixth. AA4GA and AC1O both enjoyed their first trips to the low power Top Ten.

QRP Category

Want a challenge? Like calling stations? Enjoy the thrill of the hunt? Try running less than 5 W in the Sweepstakes. With its emphasis on hunting for each new QSO rather than just calling CQ, the QRP category tests operating skill rather than location. This year the Top Ten ranged from coast to coast, but, interestingly, all from the northern half of the country.

First place finisher Ed, K1TR, visited neighbor N6BV's station in New Hampshire and enjoyed the advantage of a two-element quad on 80 meters and a three-element Yagi for 40. Ed made the most of those two bands to build a substantial contact advantage. However, the big antennas didn't help him find VE8 or nearby VE1 and VE2. Second place went to Ward, NØAX, operating from Western Washington. Ward achieved a personal best score despite missing Wyoming and VE2. In contrast to K1TR, the majority of Ward's contacts were made on 20 and 15 meters. K7MM in Eastern Washington got the Sweep, but could only find enough contacts to finish a close third. KØEJ represented the middle of country by finishing fourth from Tennessee.

Multi-Operator

After four consecutive multi-op victories, the crew at AA5B in New Mexico had established themselves as the team to beat. K1ZX in Southern Florida took advantage of the job relocation of WRTC-96 co-champion K1TO to create a winning duo that definitely knows the code. Thanks to 40 meters, K1ZX got off to a big lead on Saturday night. When AA5B was forced down to 80 meters by the long skip on 40, they knew they were in trouble. Missing Wyoming for the Sweep ended their

string. The KS9W gang did a great job to finish third from a 60×100-foot city lot in the so-called "RF black hole of Illinois."

Regional Competition

The Top Five regional score boxes will help you compare your score to others in your area of the country. Each region consists of a combination of ARRL divisions chosen for a "best fit" in terms of common geography or population.

The Northeast was highlighted by a close high power race between KE3Q and the familiar call of W2PV, operated this time by WZ1R. Perennial low power ace W2TZ took top honors with an excellent effort from WNY. KY1H took regional multi-op honors and set a new division record. While no score from the new NNY section made the box this time, we should all recognize what a great job NNY contesters did in activating this section for its first Sweepstakes.

In the Southeast, the biggest battle was for low power, with all five region winners also making the national Top Ten. KB4GID and KI4UZ had a photo finish in the QRP category.

Due to a bad combination of demographics, geography and propagation, there aren't many national winners found in the Central Region. However, this doesn't mean that there aren't great contesters or competition there! After finishing tenth nationally last year, KO9Y just missed making the box again this year, finishing in eleventh place. The high power category was a dogfight. NJ2L crossed the border to operate VE3EJ and just got by NØBSH, who was operating the KS9K superstation. KS9W and WA8ZDT both had excellent multi-op scores that made the overall Top Ten.

Once again the Midwest retained its title as toughest region by putting three QRP scores, three low power, and seven high power scores in the national boxes—wow! The closest race was a three-way QRP battle

Ton	Five.	CW

Boxes list call sign.	, score an	d class	(Q = QRP, A = Low P	ower, B =	= High	Power, M = Multiop	erator)						
Northeast Region			Southeast Region			Central Region			Midwest Region		West Coast Region	n	
(New England, Hu Atlantic Divisions and Quebec Secti	; Maritim		(Delta, Roanoke an Southeastern Divis			(Central and Grea Divisions; Ontario)	(Dakota, Midwest, F Mountain and West Divisions; Manitoba Saskatchewan Sect	Gulf and	(Pacific, Northwes Southwestern Divi Alberta, British Co NWT/Yukon Section	isions; olumbia ar	nd
K1TR K3TM WA1GUV KB2R (at K1VR) N1JAC	112,050 83,700 77,550 75,312 74,998	aaa	KØEJ KB4GID KI4UZ W8DL K5SL	100,950 74,936 74,444 72,352 66,600	000	K9OM WB9HRO WA8RJF WB8RUQ N9NE	93,328 86,700 72,750 71,188 61,466	aaa	KØFRP KØRI WAØRPI KG5U WSTFB	90,144 Q 88,160 Q 85,824 Q 85,644 Q 73,840 Q	NØAX K7MM W7YAQ W6JTI W6REC	107,464 102,960 91,322 84,854 79,872	aaa
W2TZ WA1LNP WT1O WA2STM K3SA	142,424 133,380 124,024 121,656 119,042	A A A	K8HVT/KP2 KP4TK (at NP4Z) N4ZZ W4WA (AA4GA,op) AC1O/4	201,432 201,240 189,072 169,260 162,084	A A A	KO9Y AB4RX AA8AV N8JEC N4TY	158,808 148,980 148,824 146,484 141,336	A A A	KRØY KØEU K4XU (at KØKE) KK9W KBØJSU	209,508 A 180,804 A 170,170 A 154,596 A 149,996 A	AA7BG W7ZRC K7OX KC6CNV AA7KF	174,040 161,854 156,936 152,614 147,224	A A A
KE3Q W2PV (WZ1R,op) W3GH (K3UA,op) K1IU K5ZD	195,734 194,688 193,732 191,412 189,540	B B B	W5WMU (N6TR,op) KM9P (K7GM,op) K5GO N4BP K4PQL	223,236 204,516 196,092 187,200 186,340	B B B	VE3EJ (NJ2L,op) KS9K (NØBSH,op) K8CC W9RE N4AR	195,312 194,376 188,916 188,448 185,796	В В В	N5RZ WØSD (WDØT,op) K4VX/Ø (WX3N,op) W5KFT (WN4KKN,op) K7UP (KN5H,op)	220,740 B 219,604 B 214,500 B 209,440 B 206,388 B	W6GO (N6IG,op) W7RM (AA7NX,op) K6LL K6NA (AG9A,op) KY7M	212,472 206,544 204,360 203,736 203,580	B B B
KY1H WA2UKP KE2VB W2GD K2SX/1	186,108 142,272 135,720 130,572 126,360	M M M	K1ZX K5RV NJ4F N4EC K5MC	224,640 191,100 163,800 124,024 123,728	M M M	KS9W WA8ZDT K8JM NJ9C WD8LLD	193,752 180,024 155,220 150,384 140,556	M M M	AA5B K6XO/7 KØWA NJBM KJØG	215,754 M 175,500 M 166,440 M 149,136 M 131,362 M	N6KI N6ZS K6GV A16V W6BIP	176,748 175,344 165,672 156,310 138,776	M M M

among KØRI, WAØRPI and KG5U, who were all within just a few contacts of one another. WBØO's Top Ten finish made sure that North Dakota was easy to find. Up North, under the aurora, VY1JA and VE6SH/VE8 helped increase the demand for coffee mugs from Newington.

Out in the West Coast region, there were close races in every category. NØAX, K7MM, and W7YAQ all broke into the ORP Top Ten. Down in the Sunbelt between Phoenix and San Diego, K6LL, K6NA and KY7M raced to a close finish in the high power class. N6KI and N6ZS battled for region multi-op honors. Special recognition is due to W1WEF/KH6 who helped more than one operator complete a Clean Sweep with his presence on the bands.

Final Notes

ligh Power CW Multioperator CW

ARRL HQ received 1265 CW entries-1150 single ops and 115 multiops. Of the single ops, we had 170 QRP, 739 "A power" (<150 W), and 241 "B power" logs. Special congratulations to all the stations that earned a Participation in November Sweepstakes (PINS) pin! All PINS awards were mailed in January, so you should have received yours by now.

The Phone Sweepstakes results will appear in the June issue of QST. The contest has grown too large to get everything into one issue. Special thanks to Administrative Assistant Sharon Taratula for her help in preparing the results. Mark your calendar now for the 1997 ARRL November Sweepstakes—CW, November 1 to 3, and Phone, November 15 to 17.

SOAPBOX

Poor conditions Saturday night; 40 and 80 were very difficult. Sunday was much better, especially on 40 and 80 meters (WB9HRO). A nine-digit portable, other country call signs, and roof-mounted dipoles is no way to win a contest, especially CW (KG5HN/VE6). I enjoyed the contest, and I especially liked the moderate operating speeds and PINS I'll try again (K5CWR). Eighty meters played well but 40 carried the load. Thanks to VESSF for my Sweep at around 1800Z. Maybe back to multi-op next year (KMØL). Where was Wyoming? The last five QSOs were invalid for us due to overtime (KJØB). What a great contest again! Who says you can't work all states running QRP? Can't believe W1WEF/KH6 heard me, but where was VE2 for my Sweep (N1JAC)? Where were Wyoming and Quebec (K5MC)? We would have easily broken 1000 QSOs if we didn't have to deal with some horrible line noise that started eight hours before the end of the contest (W6BIP). Great contest. Lotsa fun; sixth straight year (AA9BJ). At 2100, I started to call CQ only to hear a loud popping from the other side of the basement. The GFCI outlet was getting RFI and was smoking. Talk about starting a contest with a bang (N2KJM). Bands were not the greatest of shape but still had a ball. Was able to top out last year's score. Had some trouble copying the New England sections, even on 80 (WA2UKP). First time since the first year you had a QRP class. Feels good to be back.
All I can say is, "Tree, you done good." At least I didn't have to work too hard to do badly (KU7Y). Missed WAS by one state and a Sweep by three sections; I guess you know what next year's goal is (AA8TC). Lots of fun trying to make the 100 QSOs for a pin, running QRP from River Valley. Did much better and got three more QRP states for my WAS (KW3U). During the thick of the contest, my curiosity prompted me to listen with a 6 kHz filter; then I crawled back into my 500 Hz cave (KK5HD). Nice contest; nice activity; but one thing seems a bit troubling: of my 234 contacts, only 20 were licensed after me (1980). Doesn't look so hot for the future (NK6F/5). I found 40 meter much easier to operate and avoid some of the biggggggg signals on 20 Sunday afternoon and fairly good rates for the Left Coast. Competition is very tough in the Western Washington section; however, the scores were not very close together. I guess my operating or the band conditions need to improve (K7QQ). Dang. Missed the Clean Sweep again. I'm getting closer though. SS ORP is hard work (AB5OU). Where was Wyoming?! W9LT). Had a good time but couldn't find VE2. Where are you, Quebec? (W6TKF). Conditions were poor, activity seemed to be down, and couldn't find VE4 for my Sweep, but I still had a great time (K8NZ). Where did all those QRP stations come from? (VE6EX). Each year, I want to add a challenge. This year, it was QRP with a direct-conversion transceiver (Ten-Tec). Last year, it was tubes and 35 W, with a Heath HW-16 and HG-10B VFO (KB9IUA). Thanks and a big 72 to all those patient

ARRL November Sweepstakes Plaque Winners

Listed below are all of the plaque category winners. Only plaques with sponsors will be awarded. If you have won a plaque category without a sponsor, you may purchase your own plaque. The cost is \$50 per plaque. If you, your club, or business is interested in sponsoring any of the unsponsored plaques call Billy Lunt, KR1R, at ARRL HQ.

plaque. The course	*** p** p*** , ***	, , ,	•		
Category	Winner	Donor	Category	Winner	Donor
Overall QRP CW Low Power CW High Power CW Multioperator CW	K1TR KRØY W5WMU (N6TR,op) K1ZX	ARRL In memory of Charles Oakes, W6UQF WN4KKN and W0UA ARRL	Northwestern Divis QRP CW Low Power CW High Power CW Multioperator CW	ion NØAX AA7BG W7RM (AA7NX,op) W7UQ	NW QRP Club Ken Kopp, KØPP
Atlantic Division QRP CW Low Power CW High Power CW Multioperator CW	K3TM W2TZ KE3Q KE2VB	Randy Rand, AA2U North Coast Contesters	Pacific Division QRP CW Low Power CW High Power CW Multioperator CW	W6JTI N6NF W6GO (N6IG,op) N6ZS	Dennis Motschenbacher, AA7VB Robert A. Wilson, N6TV Richard Hallman, KI3V/7
Central Division QRP CW Low Power CW High Power CW Multioperator CW	K9OM KO9Y KS9K (NØBSH,op) KS9W	Society of Midwest Contesters	Roanoke Division QRP CW Low Power CW High Power CW Multioperator CW	W8DL WJ9B K4PQL NJ4F	Raleigh Amateur Radio Society Raleigh Amateur Radio Society
Dakota Division QRP CW Low Power CW High Power CW Multioperator CW	WAØRPI NØAT (NØKK,op) WØSD (WDØT,op) AAØXH	Tod Olson, KØTO Twin City FM Club Minnesota Wireless Assn, WØAA Minnesota Wireless Assn, WØAA	Rocky Mountain Div QRP CW Low Power CW High Power CW Multioperator CW	vision KØFRP KØEU K7UP (KN5H,op) AA5B	In Memory of M. R. Neary, N7AA
Delta Division QRP CW Low Power CW High Power CW Multioperator CW	KØEJ N4ZZ K5GO K5RV	Pat Sonnier, W5WMU	Southeastern Divisi QRP CW Low Power CW High Power CW Multioperator CW	Ion KB4GID K8HVT/KP2 KM9P (K7GM,op) N4EC	
Great Lakes Division QRP CW Low Power CW High Power CW Multioperator CW	WA8RJF AB4RX K8CC WA8ZDT	Bill Maxson, N4AR Mad River Radio Club North Coast Contesters David Smith, ND4Y	Southwestern Divis QRP CW Low Power CW High Power CW Multioperator CW	sion N7IA K7OX K6LL N6KI	Larry Serra, N6AZE Warren Hill, KF7AY
Hudson Division QRP CW Low Power CW High Power CW Multioperator CW	KF2HC WA2STM W2PV (WZ1R,op) WA2UKP	Edgar Gilbert, WA2SRQ Stuart Silverstein, K3UEI, Memorial	West Gulf Division QRP CW Low Power CW High Power CW	KG5U KZ8E N5RZ W5EHM	D. Craig Boyer, AH9B Leo E. Oyler Jr, WØGOW—W5RO Memorial Young Gunners DX Foundation
Midwest Division QRP CW Low Power CW High Power CW Multioperator CW	NØEID KK9W K4VX/Ø (WX3N,op) KØWA		Multioperator CW Canada QRP CW Low Power CW High Power CW Multioperator CW	VE3SMA VE6EX VE3EJ (NJ2L,op) VE5TR	Don Haney, KA1T River City Contesters
New England Divis QRP CW Low Power CW High Power CW	Ion WA1GUV WA1LNP K1IU	Brian Szewczyk, NJ1F Michael Perry, WM1K	Multioperator CVV	VESTR	

Jon Neary, W1UA

operators who pulled out my QRP signal (WA5OES). I'm always amazed how well the high-scoring stations can hear my QRP signal, whereas the lowscoring stations seem to miss it. [Perhaps the reason is obvious!-Ed.] It is always fun running QRP, particularly during a crowded contest. Thanks for a great contest and a lot of fun (W9NJP). Well, another CW Sweepstakes has come and gone, and again I didn't get the 100 contacts needed to get a pin. I had a lot of fun and again promised myself I will work to improve my code speed. Too many stations going too fast for me. Thanks for putting on the Sweepstakes, and I am planning on getting a pin in the phone contest. I can manage that one more easily (AD4F). I had a blast. I haven't done Sweepstakes since I was a kid. Worked several states for the first time from this QTH, including my home state of Montana. I also worked a couple of old friends, N6UR and K1ZZ. What fun! (AA6UL/4). There was lots of -15 was hot, and I worked 39 states with my attic QRP (AEØQ). It appeared there were more people using real keys this year. Sweepstakes and Field Day are my contests (N4LJS). This was my first time ever in the Sweepstakes. What a good contest to increase your CW speed (N2FF). I operated CW Sweepstakes portable from my mom's house, about 90 miles away from home. This was the first contest where NNY would count as a multiplier, so I couldn't miss putting it on the air. The amazing thing was the performance of my portable setup on 20 meters. I've operated entire Field Days without working Oregon, Montana, Idaho, Nevada, etc-but I got them from NNY. Wish I could have worked all California sections. Looking forward to the phone Sweepstakes (N2TNW). After about five years of inactivity on CW, it was great fun to "pound brass" and send the familiar exchange. It's amazing how quickly your code speed can improve over a SS weekend. Where are all of the new hams? Most all of the checks were pre-1980 (WB1GEX). Thanks for the great contest (N4UOH). I tried QRP for the first time this year; it's a big thrill to have a pileup running only 5 W. Was 80 meters great this year or what?! (K5SL). Going into the contest, I was probably reliably coping 15 WPM. At the end of the "ordeal," I was at 40 WPM with 95% accuracy. A darn good way to get the speed up and, all in all, a very good contest. Next year, I promise to put up at least one directional antenna. That might help me sort out the signals on 20 a bit better (N2TPA). Well, I had hoped to reach 500 QSOs with my "pure" QRP this year after making some 460 last year, but conditions weren't all that helpful. I fell way behind on Saturday evening and never could catch up. I am terrible at keeping up with world and national events in the news. Perhaps I missed the news that the state of Maine no longer exists and that they joined the state of New Hampshire? (K3WWP). I really enjoyed the contest and QRP makes it a real challenge. Keep up the good work (VE7CA). This was my first Sweep ever from my home station. I've been in multi-ops where we've done it but never as a single-op. Thanks to K8HVT, VE6SH, and all the others for making it possible (KK9W). It was fun, as always, but I could sure tell that we are at the bottom of the sunspot cycle (AB4RX). I started out with two radios; ended up with one working (K8DD). Last year, I had 199 QSOs in 11 hours; this year, 439 QSOs in 22 hours. Heard all the sections. Next year, I'm moving to Wyoming (K5FO). It was a challenge to operate QRP with a straight key, but very rewarding. Unfor-QRP with a straight key, but very rewarding. Unfortunately, I did not earn a pin but was happy with 80 QRP CW QSOs in seven hours of operation. I'm sure I would have hit the 100 or more mark if I had operated on Sunday. I look forward to operating QRP again next year (KB2TEO). Where were the Canadians? (N4EC). I love this contest, but how can we go about changing the rules to allow us to work stations on more than one band? Allowing one QSO per band would help to relieve Sunday doldrums (WD9HTC). I set my goal at 100 contacts for the participation pin and got that plus a few more—it was fun! Those old timers sure do pound the brass fast. Some of them were a blur to me. I'll be back next year looking for the Clean Sweep (VE3FMC). Hope propagation returns soon; my ears can't stand the 20 meter big guns' signals (K6HRT). Thanks for creating and sponsoring this contest. It was so much fun that it was a challenge to tear myself away from the radio to do homework. Please continue the high quality of service that has come to represent the ÅRRL (KG8TS). My first time over 100k in CW Sweepstakes. It was great to hear and work a ton of



K9SB, claims, "Having copied CW for years from head to paper, it was very difficult typing to go from head to keyboard. So for much of the contest, info was flowing from head to paper to keyboard. At 35 WPM, it didn't flow very well. I still had a lot of fun. Anyone know of a good typing tutor?"

QRPers (K3CR). In almost six years of hamming I've never ever heard such loud line noise. We could copy only the strongest signals. Yep-a couple of days after the contest, the noise disappeared (K4IX). This was the first contest with my new Extra class license. Can't wait for the DX test, new vanity call sign just showed up (WD6DXH). North Dakota. Worked All States. Mission accomplished! (KE9EX). Is it really necessary for the contest to be so long? It is very difficult for me to find the time to operate for such an extended period. Wouldn't it be just as much fun if the contest was only four hours or so? How about a short little contest in the Novice bands (KB9LGJ). Where were Maine and Wyoming (KA5DAV). My rig blew an electrolytic capacitor. Oh well, it was fun while it lasted (AA3GM). I've always enjoyed operating in Sweepstakes; thanks for a great contest (KB2USV). I really enjoyed Sweepstakes this year and I can't wait to break 100k next So, until then, 73 and have a good year (KB8UKP). Once again, this is the best contest of the year. My score keeps going up, but I still can't find all the multipliers. This year, I got the local homeowner's association to allow me to put up a temporary A3 tribander for the CW contest weekend. I guess this is the first step (W4RM). I operated the Sweepstakes portable Ø at Sunrise Beach, Camden County, Missouri, running 100 W to dipoles for 40 to 20 meters. This is a lot different from my 500 W and beams at home in Tennessee. I set a goal of trying to work all sections, but never even heard a VE1 or a KL7 (K4LTA/Ø). Twenty-four hours of pure radio bliss-that's how I would describe Sweepstakes. My brother and I compete against each other every year. He ran low power and I ran high, and I beat him by only 50 QSOs. I guess I have to get bigger antennas and a full-power amp (WB4NFS). I had a great time and also a good night's sleep (KJ5WX). I have the dubious record of operating in SS for 40 years without making a Clean Sweep. I have come within one section on several occasions (W6PH). Work de-



John, NJ9C, says, "Multi-oping with friends [as John did with Steve, AA9AX] is what the spirit of ham radio and contesting is all about."

mands cut into my operating time. Thanks to everyone for all the fun (K4JYO). Tremendous contest. (K9OM). I'm always coming up short on one of the Canadian sections (what do they have against me). Seems like the Clean Sweep is just not meant to be. Where, oh where, was that VE4? SS is great fun, especially in the QRP class (W8DL). Lots of QRP stations. Good to see increased activity (WBØO). I started out to make just a few QSOs to get the feel of CW Sweepstakes. Then I got carried away. Next year, maybe I can computer log and go for points. I decided to go for the mug this time about halfway through, and almost made it. I did make the pin (AA5XQ). This was my first year operating QRP in this contest. Thanks to those who had the patience to dig my little signal out of all the QRM. It was also the first year I have been able to add the Yukon to the log. As usual, the best contest of the year. (AA7QY). Six decades of Sweepstakes and it's still fun. My first score appeared in the April 1942 QST. Who needs a computer? I've always been able to log and dupe with my left hand while sending with my right (W2NZH). I haven't had this much fun since I was a teenage (KN6AZA) Novice in the SJV section in 1957. Thanks (K6AZA/W5). With nearly the same amount of QSOs as 1995, this was a wonderful contest weekend, proving that the little guns with only wires can have fun too (KK5CA). I love this contest; great operators. A guy with just wire antennas can still be competitive. I felt much better about my station after the contest. See ya next year, guys (WAØRPI). Since band conditions were not the best from here in Oklahoma, I only got 64 of the 78 available sections. My fist was getting a little sloppy toward the end, and I appreciated the patience of my contacts (KB5ENP). My goal for this year was to get my participation pin and to beat last year's score. I made both goals, but why does SS have to fall on the weekend with the most leaves to rake, the best football games, and the busiest schedule at church? (N8XMS). I operated a personal all-time CW contest high of 21 hours in this contest and got bit real hard by the CW bug. Although I missed a Clean Sweep, lacking only VE2 and KH6, it was a thrill to have NWT call me on 80 meters late Saturday night (AB5SE). Once again, I enjoyed the limited time I spent on the Sweepstakes (N3GUK). My first Sweepstakes where the off period was not dictated by equipment failure (NøLNO). I finally got my condo antenna working just in time for the contest. It's been over 10 years since my last SS CW. A great challenge and lots of fun (WA9FBC). Thanks for another great contest. I beat last year's score (call was KBØLOB) by quite a bit, and I hope to do it again next year. Still waiting for the Clean Sweep though (AAØZV). Fun, as always (KØJV). The main reason I participate in contests is to prepare for the next Field Day. Without a doubt, the November Sweepstakes is the best of the lot for that purpose. With the time that I was able to devote to this year's event, all I did was hunt and pounce. My goal was to work every section. Oh well, no mug this year (N8CPA). Conditions on 20 meters were good. Most stations could hear me the first time; something I am not accustomed to (AAØVY). I came about as close as hammingly possible to a Clean Sweep and still came up short. I was scouring every noisy bit of 80 meters, having spent an hour on 40 with no luck. I heard VE2FFE on 3524, as weak and warbly as a UI8 on 20 meters. He worked a few guys on the East coast and then sank back into the noise. Can you believe it? Maybe I could at least get a chipped mug for my efforts (N6SJ). Getting better at CW contesting but still not where I want to be yet. Improvement on the 80 meter antenna is a priority; my sloper is pointed in the wrong direction and resonant too high in the band. A lot of guys racked up big totals on 80, but I was not one of them. The pins are nice, but I would like to drink from a Clean Sweep mug. Thanks again for sponsoring the best domestic contest going (VE6KRR). Too bad the vanity calls weren't out in time for CW (AAØOB). Had fun working lots of DX during the contest period, but sure wish they counted for points. I really enjoyed getting called by VY1JA and W1WEF/KH6 with my "killer" 20 meter inverted **V** at 55 feet (KQ2M). Forty meters was so long that the East Coast seemed to be located near the United Kingdom. Eighty meters was a surprise (KØWA). Once again, the vast majority of participants were intense but courteous and a pleasure to contact (W4PBG). Having a beam on 20 helped, but it would have helped more to have a good 15 or 10 meter opening (N9CIQ). Looking back over the past few years, this

is my favorite contest, and this year was no exception. I was able to work a few less hours than last year, but my score is a personal best. It must be enjoyable for others too. At least 20% of the stations on my log are also on my log for last year's November Sweepstakes (AA5HV). I enjoyed the slow code section, but it lacked activity. I appreciate the gentlemanly attitudes and spirit of communication by all the operators on CW (KB7UIS/5). This was the first time I've tried computer logging and keying. I lost

two hours when the computer locked up on Sunday morning. Thanks to AB1T for all the technical support (NW1S). I must commend all who entered this year. I don't recall making so many easy contacts in SS ever before. Somehow I was able to make the full 24 hours, even with S6 line noise Saturday evening through Sunday morning, then the wife and I starting the home buying process by making an offer on our dream home (N4DW). I discovered it does not hurt at all to call CQ (WBØHZL). Turned 50 during

Sweepstakes...immediately felt tired and took a nap. When I awoke, the contest was almost over. Score down from last year, but finally a Clean Sweep (KJ9C). This year, I never heard any SC, AK, or PAC stations. Seems the Quebec and Wyoming stations were only answering the CQs of the high power stations (K4UK). Forty meters was the best for me by far; could not get anything going on 80; 20 was only fair on Sunday morning. I felt either propagation was bad or there was lack of activity (N4KW).

Scores		

within each section, scores are listed in desending order, by power categories, followed by multioperators. Line scores list call sign, score QSOs, multipliers, hours, class (Q = QRP, A = Low Power, B = High Power).

1	W1XN 19,722 173 57 16 Q	K2WK 80,542 523 77 11 A	AA2UI 65,664 432 76 20 A	NY3M 29,952 234 64 24 A
Connecticut KH6CP/1 59.714 409 73 24 Q	WB1EDI 1,848 33 28 5 Q	WADQOA 75,192 482 78 23 A W2HCA 73,112 481 76 19 A	AA2SU 63,248 472 67 23 A AE2T 61,568 416 74 24 A	KB3AAY 23,084 199 58 20 A W3EE 21,240 180 59 9 A
KH6CP/1 59,714 409 73 24 Q KA1CZF 49,128 356 69 24 Q	WA1LNP 133,380 855 78 24 A K1EPJ 81,466 529 77 20 A	KB2QWO 62,308 421 74 21 A WB2EZG 39,530 295 67 9 A	WA2EYA 48,714 353 69 15 A KU2N 41,114 337 61 12 A	N3MPV 15,720 131 60 15 A K3YDX 15,070 137 55 8 A
K1YRP 91,464 618 74 22 A	KB2FD 63,510 435 73 19 A	W2VQ 37,700 290 65 24 A AA2NL 19,720 170 58 10 A	WB2WPM 39,220 265 74 24 A W2OMV 39,168 272 72 15 A	WA3EOQ 14,204 134 53 4 A W3ERU 13,200 120 55 12 A
WV1C 59,780 427 70 24 A AB1U 56,448 392 72 20 A	AA1LN 10,152 108 47 12 A KB1AXF 9,630 107 45 9 A	K2WA 12,220 130 47 14 A K2TWK 10,440 116 45 8 A	KM2L 34,190 263 65 9 A	W3DAD 11,424 112 51 5 A
K1KAV 44,744 329 68 23 A NX1Q 32,368 238 68 10 A	WB1GEX 5,740 70 41 7 A		WF2V 27,156 186 73 8 A W2HG 20,460 165 62 24 A	WD3A 11,132 121 46 10 A W4PBG 10,656 111 48 14 A
N1JW 19,200 160 80 6 A KB1BOM (K5FUV.op)	K1BV 58,320 405 72 9 B K1HI 36,352 284 64 7 B	KB2NY 74,536 484 77 21 B	AA2VN 14,098 133 53 15 A WA2RZJ 13,624 131 52 24 A	ND3F 9,240 105 44 2 A W3HVN 8,428 98 43 6 A
10,170 113 45 12 A	KD1LZ (+N1s KLP,SMB,SNB,WB1BXB)	W2GD (+N2NT) 130,572 837 78 18 B	WW2J 13,200 150 44 24 A AC2D 11,664 108 54 24 A	K3ORW 7,276 107 34 24 A W3GHR 7,200 90 40 24 A
WA1RLV 1,488 31 24 24 A	40,704 318 64 24 A	N2BIM (+NET) 86,112 552 78 16 A	WA2BQI 9,416 107 44 7 A	K3KU 3,366 51 33 3 A
KQ2M 135,736 893 76 21 B W1BIH 83,148 533 78 12 B	KA1FMR (+NET) 19,856 146 68 18 A	N2KJM (+NET) 62.928 414 76 19 A	W6XR 110,760 710 78 15 B	KE3Q 195,734 1271 77 24 B
K1RM 75,000 500 75 8 B K1IN 64,800 450 72 22 B	Rhode Island	N2MZH (+NET)	K2KIR 105,300 675 78 14 B WA2LCC 90,576 629 72 20 B	KF3P 186,108 1193 78 24 B K3ZO 183,144 1174 78 24 B
N4XR 43,016 283 76 9 B	KD1IA 13,500 125 54 24 Q	37,252 278 67 10 B WU3A (+NET) 12,480 96 65 5 A	KW2J 50,232 364 69 12 B W2EZ 48,440 346 70 24 B	W3HVQ 98,850 659 75 24 B WA3WJD 90,228 618 73 23 B
NQ1K 40,128 304 66 11 B N1HRA 32,294 241 67 24 B	KM1X 113,696 748 76 24 A	WA2WYR (+NET) 11,988 111 54 13 B	N2WK 37,230 255 73 B B WB2YQH 21,150 141 75 6 B	W3AZ 61,864 418 74 17 B K3TLX 61,056 424 72 24 B
W1QK 18,200 182 50 24 B N1QPZ 1,488 31 24 1 B	K1VSJ 52,414 359 73 17 A WA1HYN 23,814 189 63 7 A	KB2POP (+NET) 7,800 100 39 3 A	WB2RAJ 11,250 75 75 24 B	W3TMZ 60,208 424 71 11 B N3AM 57,456 399 72 6 B
K2SX/1 (+NET)	K1DS 16,200 135 60 5 A K2MN 7,650 85 45 5 A		KE2VB (+K2ZJ)	WV3B 41,400 300 69 24 B
126,360 810 78 16 B KB1H (+K1s DW,EBY)	W1RFQ 4,400 55 40 3 A	Northern New York WZ2T 40,800 300 68 24 Q	135,720 870 78 23 B AA2OF (+N2s MRE,OMY,WA2ISC)	W3GN 5,920 74 40 2 B
117,000 750 78 24 B	K1IU 191,412 1227 78 24 B	N2JNZ/T 672 21 16 7 Q KA2SJG/N 200 10 10 24 Q	68,080 460 74 23 A KV2W (+N2s HCQ,VEB,VFI)	W3EAX (+KE3OM,NF3I) 73,440 510 72 22 A
W1NRG(+K1s,TG,VDF,KE1AV,N1s,HMX, JEO,LGB,QDA,RMA,W1s,FD,KKF,	W1OP (K1JNJ,W1s GS,IUX,ops)		7,878 101 39 18 A	AA3KX (+NET) 70,744 478 74 23 A
WA1TRY,ops) 109,824 704 78 24 B	96,652 662 73 24 B	N2MD 40,800 300 68 18 A WN2R 26,640 222 60 19 A	3	K3YGU (+NET)
WS1F (+WA1PMA) 72,900 486 75 20 B	Vermont WA1GUV 77,550 517 75 24 Q	N4TW 12,348 126 49 8 A	Delaware NY3C 10,750 125 43 7 Q	N3II (+ops) 43,350 289 75 24 B
W1NG (+NET) 55,224 354 78 24 B		N2TNW 11,660 110 53 13 A	W3DA 79,560 510 78 18 A	KM3V (+NET) 15,600 100 78 12 A WA3IMF (+ops) 1,056 24 22 24 A
	NW1S 114,884 746 77 21 A W1ECH 111,852 717 78 21 A	W2ZZ 38,304 266 72 11 B		Western Pennsylvania
Eastern Massachusetts KB2R (at K1VR)	KX4V/1 96,096 624 77 20 A N1PBT 31,122 247 63 18 A	KB2UGM (+K2DB,K8FC,KA2IYB,N2s PEB,UIO,NG2P,WA2ROW,ops)	K3WUW 151,690 985 77 23 B	K3WWP 48,714 353 69 24 Q
75,312 523 72 24 Q K1CGJ 58,904 398 74 17 Q	N1RJF 31,088 232 67 24 A N1DIQ 18,480 165 56 14 A	94,848 624 76 21 B	Eastern Pennsylvania WA3YON 35.140 251 70 14 Q	N3DQU 11,592 126 46 15 Q AA3GM 660 22 15 4 Q
W1MK 11,736 163 36 5 Q	AA1PM 3,510 45 39 10 A	NYC-Long Island	KW3U 16,680 139 60 12 Q W8IJ 680 20 17 2 Q	WA3HAE 114,884 746 77 24 A
W1MJ 10,600 106 50 4 Q	Western Massachusetts	KB2TEO 5,440 80 34 7 Q	N3CZB 448 16 14 4 Q	K3CR (KB3AFT,op) 112,200 748 75 24 A
WT1O 124,024 838 74 24 A K8JLF 111,112 731 76 24 A	N1JAC 74,998 487 77 24 Q	K2SHL 97,500 650 75 22 A W2KTF 36,778 259 71 9 A	WA3KWU 93,450 623 75 21 A	N3IXR 100,168 659 76 24 A
AI6E 97,674 669 73 24 A K1VUT 93,832 634 74 19 A	W1TR 50,320 340 74 16 A	KG2BI 26,160 218 60 14 A	NK51 85,994 589 73 20 A KC3M 85,020 545 78 21 A	AD8J 45,698 313 73 10 A
WA2CJT 73,650 491 75 16 A	K5ZD 189,540 1215 78 24 B	N2LSK 16,954 173 49 7 A N2HCU 14,040 135 52 16 A	N2EY 75,332 509 74 23 A K3MQH 75,150 501 75 10 A	W3TWI 42,174 297 71 24 A WW3S 33,596 227 74 9 A
WZ1K 55,008 382 72 20 A	KY1H (+KB1W,NJ1T,WM1K) 186,108 1193 78 24 B	WA2MAV 13,566 133 51 6 A K2HVN 11,322 111 51 4 A	W3AP 41,676 302 69 6 A	WA3MDY 22,800 200 57 13 A W3IA 19,320 138 70 23 A
K1NTR 48,990 355 69 12 A WR1P 34,944 273 64 14 A	2	WA2YIZ 9,594 117 41 9 A	K3ATO 40,392 297 68 10 A N3FOG 30,732 197 78 23 A	WA9AQE 18,590 143 65 7 A
WG1Z 28,274 211 67 21 A W1ZNY 25,668 207 62 17 A	Eastern New York	KG2FH 2,688 48 28 5 A AA2QL 924 33 14 4 A	AG3G 28,014 203 69 16 A W3RJ 26,634 193 69 24 A	N3PUR 18,468 162 57 18 A NI3I 15,052 142 53 11 A
WS1H 18,126 159 57 10 A	WA2STM 121,656 822 74 24 A K2UF 82,368 526 78 23 A	N2MBM 588 21 14 2 A	N3TRO 26,596 218 61 10 A	NB4J 12,576 131 48 7 A W3QOS 12,168 117 52 5 A
NZ1Q 13,664 122 56 7 A WA1IML 12,750 125 51 3 A	WB2CFP 53,328 404 66 17 A N2JOH 52,220 373 70 14 A	AA2FB 160,680 1030 78 23 B	K2LNS 24,640 220 56 10 A WA3UFU 23,790 183 65 15 A	KB3AZK/N 4,592 82 28 20 A
W1SR 11,960 115 52 4 A K1HTN 10,672 116 46 13 A	AA2WQ 48,764 334 73 18 A	K2AU 74,900 535 70 16 B	NU3Z 15,504 152 51 8 A WB3AAL 15,080 130 58 6 A	KA3MYM 2,106 39 27 7 A WA3RBK 8 2 2 2 A
K1MC 9,460 86 55 9 A	AA2Y 30,114 239 63 12 A WB2TCV 24,288 184 66 18 A	K2QMF (+NET) 76,440 490 78 17 A	KE3MX 13,630 145 47 10 A W3SD 12,576 131 48 5 A	W3GH (K3UA,op)
K1XM 8,910 99 45 2 A WO1N 8,904 106 42 5 A	KB2EEU 20,570 187 55 14 A WØZU 20,412 162 63 8 A	WO2N (+NET) 29,252 206 71 14 A	WB3FAA 9,936 108 46 5 A	193,732 1258 77 24 B W3HDH 61,272 414 74 13 B
K1SEC 8,400 100 42 5 A N1EDM 5,624 74 38 6 A	W2XM 18,700 170 55 8 A	N2FF (+NET) 12,210 111 55 16 A	W3SSS 9,000 100 45 13 A N3IKJ 6,864 88 39 15 A	W3YQ 55,334 379 73 5 B
WA1QVM 3,960 66 30 10 A KB1AUM/T 2,184 52 21 4 A	N2USK 10,400 130 40 19 A	Southern New Jersey	N3GUK 3,400 50 34 3 A W3EFY 3,264 48 34 4 A	4
	N2CJJ 9,476 103 46 7 A N2YXC 9,048 116 39 10 A	W2LYL 56,000 400 70 18 Q W2NZH 19,256 166 58 12 Q	WB3LNZ 736 23 16 5 A	Alabama KS4L 18,480 154 60 7 Q
K1JKS 131,670 855 77 24 B AA1HB 108,224 712 76 21 B	KF2IK 8,360 110 38 13 A W2NRD 7,656 66 58 8 A	K2HPV 13,392 124 54 7 Q	AA3B 145,500 970 75 24 B	•
K5MA 101,400 650 78 15 B W1FM 53,818 379 71 16 B	KG2GP 2,448 51 24 6 A		K3TEJ 138,216 886 78 24 B WT3H 26,928 204 66 8 B	N4YOS 129,012 827 78 24 A KC4ZV 72,416 496 73 10 A
WA1G 48,472 332 73 5 B W1AX 36,432 253 72 10 B	W2PV (WZ1R,op)	W2ESX 74,022 507 73 24 A W5KI 38,544 264 73 11 A	K3TX 19,920 166 60 24 B	W4NTI 46,512 342 68 24 A K2RUE 45,260 365 62 24 A
K1VV 11,176 127 44 4 B	194,688 1248 78 24 B NA2N 103,334 671 77 24 B	KA2GSL 36,040 265 68 13 A N2OO 30,030 231 65 6 A	K3WW (+NET) 109,200 700 78 17 B	K4JYO 33,280 256 65 9 A W4UTI 21,306 159 67 7 A
K1TWF (+NET)	WA1KKM 70,006 493 71 15 B N1CC 68,400 450 76 10 B	K2ZA 20,300 175 58 14 A	N6CQ (+NET) 66,300 425 78 11 A	N4QB 9,240 105 44 6 A
88,396 574 77 24 B NO1J (+NET) 45,600 300 76 12 A	K2ONP 42,344 316 67 6 B	W2ORA 330 15 11 5 A	NY3G (+NET) 33,300 222 75 24 A N3FSC (+NET) 2,014 53 19 24 A	K4VV 38,912 304 64 24 B
W1AF (KO1Ó, KC5DJM, ops) 37,620 285 66 24 A	N2iWE 21,230 193 55 5 B WB2YLR 15,680 140 56 24 B	AD3Y 242 11 11 1 A	Maryland-DC	KE4AGT (+KD4VIW)
Maine	WA2UKP (+AA2s DY,GS,K2JSC,	N2MM 156,000 1000 78 24 B W2YC 86,944 572 76 20 B	K3TM 83,700 558 75 24 Q	14,760 123 60 9 A
W1KX 27,336 201 68 8 Q	· WA2JQK) 142,272 912 78 24 B	K5QNF 43,470 315 69 10 B	K3DI 69,888 448 78 24 Q AK2P 60,298 413 73 17 Q	Georgia
N1AFC 8,080 101 40 8 Q	N2POS (+N2s PEN,QIP) 28,800 225 64 24 B	K3JGJ (+NET)	ND3C 43,056 312 69 19 Q WO3B 41,752 307 68 18 Q	KB4GID 74,936 493 76 23 Q KØHT 13,664 112 61 13 Q
KX1E 57,822 419 69 22 A W1LEE 17,496 162 54 17 A	K2POF (+NET)	33,852 217 78 12 A	W6TOY/3 27,880 205 68 17 Q AE4HF 7,400 100 37 6 Q	W4WA (AA4GA,op)
	27,924 179 78 24 A	Western New York WØVU 52,392 354 74 17 Q	K3SA 119,042 773 77 20 A	169,260 1085 78 24 A
KR1B 9,072 108 42 7 A	KB2USV (K2s PC,POF,ops)		Name 119:042 //3 // 20 A	K4BAI 113,880 730 78 24 A
KR1B 9,072 108 42 7 A KA1RUG 7,548 102 37 9 A KQ1V 7,216 88 41 7 A	10,812 106 51 24 A	N2TPA 22,620 174 65 20 Q	AA3HM 103,116 661 78 24 A	N8LM 73,872 486 76 16 A
KR1B 9,072 108 42 7 A KA1RUG 7,548 102 37 9 A	10,812 106 51 24 A Northern New Jersey	N2TPA 22,620 174 65 20 Q WB2VUO 3,904 61 32 13 Q		N4XQN 30,672 216 71 16 A W4KYW 21,456 149 72 24 A
KR1B 9,072 108 42 7 A KA1RUG 7,548 102 37 9 A KQ1V 7,216 88 41 7 A N1MHB 3,240 60 27 9 A New Hampshire	10,812 106 51 24 A Northern New Jersey KF2HC 31,200 240 65 17 Q WA2ASQ 13,000 130 50 10 Q	N2TPA 22,620 174 65 20 Q WB2VUO 3,904 61 32 13 Q W2TZ 142,424 937 76 24 A KQ2K 95,608 629 76 22 A	AA3HM 103,116 661 78 24 A WD3P 60,624 421 72 15 A AA3OC 43,056 276 78 10 A W3CPB 41,040 285 72 15 A	N4XQN 30,672 216 71 16 A W4KYW 21,456 149 72 24 A AJ1T 3,456 54 32 10 A
KR1B 9,072 108 42 7 A KA1RUG 7,548 102 37 9 A KQ1V 7,216 88 41 7 A N1MHB 3,240 60 27 9 A	10,812 106 51 24 A Northern New Jersey KF2HC 31,200 240 65 17 Q	N2TPA 22,620 174 65 20 Q WB2VUO 3,904 61 32 13 Q W2TZ 142,424 937 76 24 A	AA3HM 103,116 661 78 24 A WD3P 60,624 421 72 15 A AA3OC 43,056 276 78 10 A	N4XQN 30,672 216 71 16 A W4KYW 21,456 149 72 24 A

				MO 11/4 00 770 440 70 44 B
KD3GC 950 25 19 3 A	WB4BBH 33,810 245 69 12 A WD4AHZ 14,178 139 51 3 A	N5NA 34,840 260 67 10 A KC5ZZ 26,400 220 60 19 A AB5XP 11,232 117 48 24 A	N5JJ (K5GA,op) 196,092 1257 78 24 B	W6JVA 62,776 413 76 14 B KT6V 20,670 159 65 24 B
KM9P (K7GM,op) 204,516 1311 78 24 B	KN4JN 14,144 136 52 11 A AE4MH 13,452 118 57 6 A	K5JAZ 8,480 106 40 12 A	K5NA 189,112 1228 77 24 B N6FU 188,650 1225 77 24 B	N6KI (+KM6SN,N6AZE,WB6NBU) 176,748 1133 78 24 B
AE4Y 87,672 562 78 24 B	KJ4WH 6,240 78 40 4 A W3DHN 5,904 72 41 8 A	,	K5GN 175,252 1138 77 24 B W5ASP 172,848 1108 78 24 B	San Francisco
Kentucky KC4WQ 33,500 250 67 12 Q	WW1N 2,340 39 30 3 A	W5WMU (N6TA,op) 223,236 1431 78 24 B	N5DU 160,368 1028 78 20 B K5RC 125,112 802 78 16 B	W6JTI 84,854 551 77 24 Q
AE4VQ 200 10 10 3 Q	N4BP 187,200 1200 78 22 B	N8RR 158,184 1014 78 19 B	W5NN 106,950 713 75 12 B AA5RB 62,100 450 69 24 B	K6GPB 16,800 150 56 18 Q
AB4RX 148,980 955 78 24 A N4TY 141,336 906 78 24 A	K1ZX (+K1TO,WC4E) 224,640 1440 78 24 B	K5RV (+KF5XV,KG5VK) 191,100 1225 78 24 B	W5NR 12,600 126 50 5 B	N6ZFO 95,756 647 74 22 A WA8LLY/6 27,300 210 65 10 A
N4QS 135,432 891 76 24 A N4UL 67,932 459 74 24 A	Tennessee	K5MC (+N5MYH,WA5SXU) 123,728 814 76 24 B	W5EHM (N1PVB,AA5BT,KA5WSS, KG5KI,ops)	KE6ORT 9,292 101 46 4 A KD6POC 5,916 102 29 11 A
KD4LHA 56,440 415 68 17 A K4FU 54,288 348 78 16 A	KØEJ 100,950 673 75 20 Q KI4UZ 74,444 503 74 24 Q	KI5EE (+AA5XI,KJ5NS) 2,296 41 28 4 A	103,500 690 75 18 B AB5EA (+AB5EB)	KE6SLS 5,696 89 32 24 A
KA8OKH 50,978 359 71 14 A KF8VS 35,466 257 69 14 A	AD4KS 29,512 217 68 21 Q AC4HF 14,040 130 54 7 Q	Mississippi	93,600 600 78 24 A AB5TV (+WA1YIA,WA5DWX)	WA6CTA 133,848 858 78 22 B
KM4FO 24,400 200 61 13 A K4AVX 19,468 157 62 7 A	N4ZZ 189,072 1212 78 24 A	WA5OYU 2,496 48 26 3 Q	82,288 556 74 17 A	W6BIP (+AEØM,N1EE) 138,776 913 76 24 B
KO4OL 16,500 165 50 16 A AE4UK 15,812 134 59 21 A	W9WI 139,776 896 78 24 A WA6KUI 138,016 908 76 24 A	W5XX 156,000 1000 78 24 A	West Texas K5ED 63,640 430 74 18 Q	K6ANP (+K6LRN) 94,402 613 77 24 B
W4CN 15,620 142 55 9 A N4JRG 4,680 65 36 5 A	NA4K 112,800 752 75 16 A N4DW 107,700 718 75 24 A	KB5IXI 33,600 240 70 17 A	AB5WB 24,708 213 58 13 Q	W6PW (KD6s VWD,YDY,NN6D,W6s BD, VV,ops) 29,336 193 76 24 A
N4AR 186,796 1191 78 24 B	W4TYU 39,600 300 66 14 A N4CT 34,944 224 78 12 A	New Mexico AB5OU 32,234 227 71 24 Q	N5DO 72,000 480 75 22 A	San Joaquin Valley
N4XM 142,896 916 78 24 B KJ4VH 44,250 295 75 24 B	W4HZD 21,090 185 57 17 A AB4CA 18,704 167 56 9 A	K5AM 31,552 232 68 9 Q	NSRZ 220,740 1415 78 24 B	WB6ITM 84 7 6 1 Q
North Carolina	W4DAN 11,832 116 51 4 A KE4GYR 10,250 125 41 10 A	KB5UL 115,192 748 77 23 A KT5X 70,356 451 78 12 A	6 East Bay	W6PH 125,550 837 75 24 A W6UDX 15,984 148 54 7 A
AD4ZE 38,350 295 65 21 Q WR4I 26,128 184 71 13 Q	KE4OAR 5,110 73 35 10 A AD4F 4,290 65 33 8 A	WAØSXV 21,576 174 62 24 A NO5I 14,300 130 55 7 A	N6PDX 30,096 228 66 18 Q	N6UR 202,020 1295 78 24 B
AE4IC 24,282 213 57 24 Q KF4APW (AA4NC,op)	AD4XP 4,032 56 36 7 A K4OGG 3,186 59 27 24 A	KC5KKY 11,786 111 53 7 A N5CU 9,450 105 45 9 A	K6XV 69,856 472 74 24 A WB6DSV 6,720 84 40 3 A	N6MU (at N6NB) 181,584 1164 78 24 B
21,248 166 64 4 Q	KY2P 163,956 1051 78 24 B	AC5GI 8,800 100 44 24 A	N6RO 189,728 1232 77 24 B	WA6YEE 66,150 441 75 24 B
WJ9B 132,900 886 75 24 A N4YDU 113,616 789 72 24 A	WR3O 156,408 1029 76 24 B N4IR 133,536 856 78 19 B	K7UP (KN5H,op) 206,388 1323 78 24 B	W6RGG 105,456 676 78 14 B N6VV 83,904 552 76 24 B	WA6TKV (+KD6KKP) 105,182 683 77 24 B
N2NFG 113,190 735 77 22 A KI4HN 112,500 750 75 24 A	W4OGG 25,472 199 64 7 B	AA5B (+K5TA,AI9X,K9RS)	AC6CI 64,464 474 68 16 B	Santa Barbara
AC4ZO 103,896 702 74 24 A KA4IKH 82,350 549 75 24 A	KO4EW (+NET) 118,716 761 78 23 B	215,754 1401 77 24 B AA5UR (+KB5TTS)	W6BSY 51,552 358 72 11 B W6GPM 18,232 172 53 9 B	WA6SFM (WB6JJE,op) 42,032 284 74 18 Q
K4RZ 43,920 305 72 15 A N4BNO 40,788 309 66 20 A	Virgin Islands	30,284 226 67 20 A	Los Angeles	KO6KA 32,604 247 66 24 Q
N4UOH 39,000 300 65 24 A NU4G 25,800 215 60 24 A	K8HVT/KP2 201,432 1308 77 24 A	North Texas K5FO 65,850 439 75 22 Q	W6RCL 4,464 62 36 4 Q	WA6FGV 114,750 765 75 24 A W6TKF 97,790 635 77 19 A
KQ4AV 19,686 193 51 23 A KQ2V 18,724 151 62 5 A	WP2AHX (KP2s J,N,NP2DJ,ops) 18,704 167 56 7 B	KC5RAS 51,972 388 71 24 Q WD5ICQ 13,920 120 58 23 Q	KC6X 122,584 796 77 23 A WA6GDS 100,928 664 76 21 A	W6BKY 35,140 251 70 20 A AB6TY 9,240 110 42 24 A
KM4DY 12,800 128 50 14 A KZ2I 11,340 105 54 B A	Virginia	K3ETS 5,694 73 39 9 Q	N6GL 64,386 441 73 13 A N5BF 30,520 218 70 13 A	KA6WZR 4,824 67 36 9 A N6PMO 476 17 14 13 A
AE4EC 10,500 105 50 8 A KS4S 9,632 112 43 12 A	W4PRO 48,510 315 77 17 Q K4GEL 32,504 239 68 21 Q	KRØY 209,508 1343 78 24 A WD5K 127,452 817 78 24 A	KQ6ES 29,056 227 64 22 A WA6BIL 23,142 203 57 9 A	W6BHZ (N6s DE,ED,NL,ops)
N9TMU 6,868 101 34 21 A W2VMX 4,408 58 38 3 A	KA4RRU 10,404 102 51 4 Q AA6UL 7,224 84 43 6 Q	NN5T 114,972 737 78 24 A W5MYA 90,520 620 73 16 A	N6TW 16,416 144 57 24 A N6IC 14,544 101 72 11 A	28,006 209 67 16 B
KE4JHJ 3,654 63 29 24 A KS4RP 1,848 42 22 24 A	WB4RMJ 112,332 759 74 24 A	W6LFB 44,020 310 71 19 A WK5K 40,460 289 70 24 A	KN6DQ 12,296 116 53 24 A N7KFL 11,136 116 48 8 A	Santa Clara Valley N3ZZ 68,968 466 74 24 Q
K4CAX 1,650 33 25 2 A	W4YE 110,916 711 78 19 A K4BAM 100,562 653 77 23 A	AB5MG 28,416 192 74 10 A KN5L 26,496 207 64 19 A	K6ZCL 10,290 105 49 13 A WA7BNM 9,384 102 46 4 A	W6IO 59,714 409 73 20 Q AC6LA 14,616 126 58 24 Q
K4PQL 186,340 1210 77 24 B AA4NC 154,000 1000 77 19 B	WD4MUR 74,250 495 75 20 A N3JT 74,000 500 74 12 A	AA5WE 21,024 146 72 18 A W5RYV 14,112 126 56 16 A	N6TCZ 544 17 16 4 A	N7FF 2,024 46 22 2 Q
W1IHN 115,440 740 78 18 B AD4PU 28,210 217 65 12 B	N3OS 63,936 432 74 21 A N4MO/3 56,000 400 70 17 A	AC5GY 12,444 122 51 13 A KC5OZS 10,272 107 48 10 A	AB6FO 198,744 1274 78 24 B KØDI 156,864 1032 76 24 B	N6NF 125,664 816 77 18 A AD6E 73,164 469 78 12 A
K4TP 18,056 148 61 24 B	KU3M 52,500 375 70 21 A AC4XT 51,660 369 70 18 A	W5DLM 9,400 100 47 7 A KB7UIS/5 1,804 41 22 24 A	W6UE (KA6SAR,N6s DLU,VI,W6EJJ,ops)	AE6Y 70,378 457 77 10 A N6NM 68,068 442 77 20 A
W4ATC (N3QYE,NA4G,KO4PY,ops) 91,200 608 75 24 A	AF4O 49,348 338 73 20 A K4UK 49,248 342 72 17 A	K5MR 197,736 1284 77 24 B	118,872 762 78 23 B	W7KJJ/6 43,400 310 70 12 A AC6NS 39,054 283 69 10 A
W4ZYT(+K4KOE,KC4VZK,N4AIG,W8RJL, WDØCNQ)	AA4KD 39,744 288 69 24 A K4FPF 39.000 250 78 11 A	NA5Q 191,100 1225 78 24 B K5RX 182,676 1171 78 24 B	Orange KI6SN 18,928 169 56 19 Q	W6PLJ 34,952 257 68 11 A W9MAK 34,020 243 70 8 A
85,118 583 73 24 B K3KO (+NET) 75,150 501 75 11 B	N4MM 35,100 225 78 21 A K4FOY 35.052 254 69 9 A	WXØB 155,532 997 78 24 B W5FO 154,616 1004 77 24 B	KC6CNV 152,614 991 77 24 A	N6PT 31,878 231 69 16 A N6SJ 18,942 123 77 17 A
WB8BMV (+NET) 27,470 205 67 6 B	W4VC 28,928 226 64 12 A WB4ZPF 27,020 193 70 17 A	N5KM 150,612 978 77 21 B WB5B 94,050 627 75 15 B	AA6PW 125,800 850 74 24 A K6HRT 85,880 565 76 21 A	AA6IY 13,230 135 49 10 A WD6DXH 11,520 120 48 6 A
K4HU (AE4CL,KE4sCLE,SQV,N4XFT, W4TFT,KC5F,ops)	WA4DAI 27,008 211 64 12 A N4JEO 25,800 215 60 8 A	AL7CQ 70,000 500 70 15 B W5MW 23,986 179 67 8 B	WA6NGO 47,002 331 71 15 A W1HIJ/6 34,716 263 66 19 A	N6TV 180,180 1155 78 24 B
14,850 135 55 20 A W4BFB (WB2NHQ,WN4BBJ,ops)	WD4ELJ 22,540 161 70 9 A W3FTG 19,152 152 63 7 A	K6AZA/5 18,354 161 57 24 B	W6TKV 25,728 201 64 19 A W6TKV 22,000 200 55 12 A	NI6T 151,788 973 78 24 B AA6KX 144,924 929 78 18 B
13,500 135 50 15 B KA4APA (+KE4s JZE,UHD,ZDS,N4OHY)	N4LJS 18,240 160 57 10 A AE4EW 13,442 143 47 18 A	KC5OJY (KC5ALW,N5VHO,ops) 76,000 500 76 23 A	NF6H 15,688 106 74 6 A KE6PMA 11,628 114 51 12 A	AA6MC 136,032 872 78 15 B N6ZB 111,852 717 78 24 B
5,800 100 29 20 A	AE4DG 10,304 92 56 13 A N6MW 9,928 73 68 8 A	Oklahoma	KF6BVR 1,232 28 22 12 A WA6GFR 4 2 1 1 A	N6IP 106,548 683 78 24 B AB6YL 78,280 515 76 19 B
Northern Florida K4VFY (K4MOT,op)	AE4IX 9,810 109 45 15 A AD4TJ 6,560 80 41 6 A	K5DP 17,700 150 59 7 Q AC5II 3,366 51 33 24 Q	K2PLF 96,750 645 75 18 B	AB6EQ 26,624 208 64 24 B KD6NOS 24,948 198 63 24 B
43,946 301 73 13 Q WB8PAF 4,512 94 24 24 Q	KE4VKX 6,448 104 31 22 A N1MHV 5,550 75 37 24 A	KA5DAV 48,326 331 73 16 A	W6HT 10,780 110 49 8 B	W6IXP 15,222 129 59 13 B W6CF 10,058 107 47 2 B
W3GU 105,850 725 73 24 A	K3SS 2,400 48 25 8 A KE4PUC 936 26 18 7 A	K5CM 33,792 264 64 10 A KB5ENP 24,448 191 64 19 A	Pacific	7
WC4E 73,292 502 73 14 A W5HUQ 68,640 440 78 23 A	W4ZPR 600 20 15 24 A		KH6B 416 16 13 18 Q	,
KD4YAR 60,528 388 78 23 A		KAØRNY 15,494 127 61 12 A	KH6/W1WEF 128,700 858 75 16 B	Alaska
AC4OC 49.274 347 71 24 A	KT4CB 60 6 5 6 A KT3Y 181.258 1177 77 24 B	KAØRNY 15,494 127 61 12 A AA5HV 15,120 140 54 10 A KC5ASD 13,500 135 50 10 A	KH6/W1WEF 128,700 858 75 16 B Sacramento Valley	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A
AC4OC 49,274 347 71 24 A N4KW 40,960 320 64 9 A N4EEB 36,792 292 63 6 A	KT3Y 181,258 1177 77 24 B WB4NFS 119,850 799 75 24 B	KAØRNY 15,494 127 61 12 A AA5HV 15,120 140 54 10 A	KH6/W1WEF 128,700 858 75 16 B Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A
N4KW 40,960 320 64 9 A N4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A	KT3Y 181,258 1177 77 24 B WB4NFS 119,850 799 75 24 B KE9A 70,500 470 75 11 B AA4EL 57,288 372 77 24 B	KAØRNY 15,494 127 61 12 A ASHV 15,120 140 54 10 A KC5ASD 13,500 135 50 10 A KBEEK 12,324 79 78 13 A WDØGTY 4,560 60 38 5 A KSYAA 175,500 1125 78 24 B	KH6/W1WEF 128,700 858 75 16 B Sacramento Valley W6REC 79,872 512 78 20 Q K6BPB 48,848 344 71 18 A KD6WP 21,312 148 72 12 A	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A
N4KW 40,960 320 64 9 A N4EEB 36,792 292 63 6 A	KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 8 KE9A 70,500 470 75 11 8 AA4EL 57,288 372 77 24 B W4XD 54,166 371 37 10 B W2YE 22,440 187 60 10 B	KAØRNY 15,494 127 61 12 A AASHV 15,120 140 54 10 A KC5ASD 13,500 135 50 10 A KB5EK 12,324 79 78 13 A WDØGTY 4,560 60 38 5 A KSYAA 175,500 1125 78 24 B KM5H 74,022 507 73 11 B	RH6/W1WEF 128,700 858 75 16 8	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B
N4KW 40,960 320 64 9 A N4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A KB4FOS 13,260 130 51 18 A	KT3Y 181,258 1177 77 24 B WB4NFS 119,850 799 75 24 B KE9A 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,166 371 73 10 B	KAØRNY 15,494 127 61 12 A ASHV 15,120 140 54 10 A KC5ASD 13,500 135 50 10 A KBEEK 12,324 79 78 13 A WDØGTY 4,560 60 38 5 A KSYAA 175,500 1125 78 24 B	KH6/W1WEF 128,700 858 75 16 B	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B Arizona N7IR 58,254 399 73 24 Q N7JXS 28,006 209 67 17 Q
N4KW 40,960 320 64 9 A KB4EB 36,792 292 63 6 K A K K 59 24 A K B K B K B A K B A K B A A K B A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A A </td <td>KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 B KESA 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,166 371 73 10 B W2YE 22,440 187 60 10 B NJ4F (+K4EC,K4GMH,K7SV) 163,800 1050 78 24 B K4IX (+N4BRA,W4HIR) 67,024 472 71 22 A</td> <td> KAGRNY</td> <td> Sacramento Valley W6REC 79,872 512 78 20 Q </td> <td>Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B Arizona N7IR 58,254 399 73 24 Q N/JUXS 28,006 209 67 17 Q NO7X 15,104 128 59 12 Q AA7QY 11,220 102 55 10 Q</td>	KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 B KESA 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,166 371 73 10 B W2YE 22,440 187 60 10 B NJ4F (+K4EC,K4GMH,K7SV) 163,800 1050 78 24 B K4IX (+N4BRA,W4HIR) 67,024 472 71 22 A	KAGRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B Arizona N7IR 58,254 399 73 24 Q N/JUXS 28,006 209 67 17 Q NO7X 15,104 128 59 12 Q AA7QY 11,220 102 55 10 Q
N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A KSWTA 15,340 130 59 24 A KSHAFOS 13,260 130 51 18 A KS4XN 10,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B	KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 8 KE9A 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W2VE 22,440 187 60 10 B NJ4F (+K4EC, K4GMH, K7SV) 183,800 1050 78 24 B K4IX (+N4BRA, W4HIR)	KABRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B B Alaska Summer Summer
N4KW 40,960 320 64 9 A N4EEB 36,792 292 63 6 A KSWTA 15,340 130 59 24 A KSB4FOS 13,260 130 51 18 A KS4XN 10,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH)	KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 8 KE9A 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4YD 54,168 371 73 10 B W2YE 22,440 187 60 10 B NJ4F (+K4EC,K4GMH,K7SV) 163,800 1050 78 24 B K4IX (+N4BRA,W4HIR) 67,024 472 71 22 A WA4QDM (+MET)	KAØRNY	Sacramento Valley WeREC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A A NL7RK 11,088 126 44 8 A A KL7HKX 50,786 379 67 11 B B A A A A A A A A
N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A K5WTA 15,340 130 59 24 A K54XN 10,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B Puerto Rico KP3S 31,248 217 72 23 Q KP4TK (at NP4Z)	KT3Y 181,258 1177 77 24 8 WB4NFS 119,850 799 75 24 8 KE9A 70,500 470 75 11 8 AA4EL 57,288 372 77 24 8 W4XD 54,166 371 73 10 8 W2YE 22,440 187 60 10 8 NJ4F (+K4EC,K4GMH,K7SV) 78 24 8 K4IX (+N4BRA,W4HIR) 67,024 472 71 22 A WA4QDM (+NT) 36,176 238 76 24 A	KABRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A A NL7RK 11,088 126 44 8 A A KL7HKX 50,786 379 67 11 B B A A A A A A A A
N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A K5WTA 15,340 130 59 24 A K5WTA 17,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B Puerto Rico KP3S 31,248 217 72 23 Q KP4TK (at NP4Z) 201,240 1290 78 24 A	KT3Y 181,258 1177 77 24 8 WBANFS 119,850 799 75 24 8 KESA 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,168 371 73 10 B W2YE 2,440 167 60 10 B NJ4F (+K4EC,K4GMH,K7SV) 163,800 1050 78 24 B K4IX (+N4BRA,W4HIR) 36,176 238 76 24 A Arkansas W0LK 15,960 140 57 12 Q N8VV 129,976 844 77 23 A	KADRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A NL7RK 11,098 126 44 8 A A KL7HKX 50,786 379 67 11 B B A A A A A A A A
N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A K5WTA 15,340 130 59 24 A K54XN 10,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B Puerto Rico KP3S 31,248 217 72 23 Q KP4TK (at NP4Z)	KT3Y 181,258 177 77 24 8 WBANFS 119,850 797 524 8 KESA 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,166 371 73 10 B W2YE 22,440 167 60 10 B NJ4F (+K4EC,K4GMH,KTSV) 163,800 1050 78 24 B K4IX (+N4BRA,WHIR) 67,024 472 71 22 A WA4QDM (+NET) 36,176 238 76 24 A AFKansas W@LK 15,960 140 57 12 Q N8VV 129,976 844 77 23 A AB5SE 80,104 527 76 21 A NOSW 75,044 151 73 22 A	KADRINY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A A KL7HKX 11,088 126 44 8 A KL7HKX 50,786 379 67 11 B A A KL7HKX 28,006 209 67 17 Q A A C A A C A A C A A
N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A K5WTA 15,340 130 59 24 A KB4FOS 13,260 130 51 18 A KS4XN 10,712 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B Puerto Rico KP3S 31,248 217 72 23 Q KP4TK (at NP4Z) 201,240 1290 78 24 A South Carolina KS4DU 33,320 245 68 15 Q W8PC 96,216 633 76 24 A	KT3Y 181,258 177 77 24 8 WBANFS 119,850 799 75 24 8 KESA 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4XD 54,166 371 73 10 B W2YE 22,440 167 60 10 B NJ4F (+K4EC,K4GMH,KTSV) 163,800 1050 78 24 B K4IX (+N4BRA,WHIR) 36,176 238 76 24 A WA4QDM (+NET) 36,176 238 76 24 A AFKansas W@LK 15,960 140 57 12 Q N8VV 129,976 844 77 23 A ABSSE 80,104 527 76 21 A NOSW 75,044 151 47 32 2 A ACSBR 68,400 450 76 18 A KJSWX 56,850 379 75 20 A	KADRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A A KL7HKX 50,786 379 67 11 B Arizona NTIR S8,254 399 73 24 Q Q A7QY 15,104 128 59 12 Q AA7QY 11,220 102 55 10 Q AB7OA 680 20 17 10 Q AB7OA 680 20 17 10 Q AFROY S8,254 399 67 17 Q AB7OA 680 20 17 10 Q AB7OA 58,254 375 21 A AB7OA 53,250 375 71 14 A AB7TC AB7TC 680 49 80 7 A AB7TC 680 242 65 12 A AU7HTX 17,880 149 80 7 A KC7DOA 16,800 150 55 14 A AB7TC 61,74 63 49 13 A ABTTC 61,74 63 49 13 A ABTTC 61,74 63 49 13 A
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N4KW 40,960 320 64 9 A M4EEB 36,792 292 63 6 A KSWTA 15,340 130 59 24 A KSB4FOS 13,260 130 51 18 A KSAXN 10,712 103 52 17 A KA4HHM 1,472 32 23 12 B N4EC (+WB4AWH) 124,024 838 74 24 B Puerto Rico KP3S 31,248 217 72 23 Q KP4TK (at NP4Z) 201,240 1290 78 24 A South Carolina KS4DU 33,320 245 68 15 Q W8PC 96,216 633 76 24 A KSME 80,928 562 72 24 A N2FY 35,190 255 69 15 A KC4UH 24,544 208 59 8 A KB4GYT 24,492 157 78 24 A A3II 9,984 96 52 22 A	KT3Y 181,258 1777 77 24 8 WBANFS 119,850 799 75 24 B KE9A 70,500 470 75 11 B AA4EL 57,288 372 77 24 B W4X/D 54,168 371 73 10 B W2YE 22,440 187 60 10 B NJ4F (+K4EC,K4GMH,K7SV) 163,800 1050 78 24 B K4IX (+N4BRA,W4HIR) 67,024 472 71 22 A WA4QDM (+NET) 36,176 238 76 24 A Arkansas WULK 15,960 140 57 12 Q NBVV 129,976 844 77 73 A AB5SE 80,104 527 76 21 A NOSW 75,044 514 73 22 A ACSBR 88,400 450 76 18 A KJSWX 56,850 379 75 20 A WA5BDU 48,300 356 913 A KF5PN 33,258 241 69 15 A ACSBG 25,944 188 69 20 A ASSGG 25,944 188 69 20 A	KAGRNY	Sacramento Valley W6REC 79,872 512 78 20 Q	Alaska NL7DU 31,000 250 62 8 A KL7WP 27,776 217 64 15 A WL7DB 18,300 150 61 12 A A KL7HKX 50,786 379 67 11 B Arizona NTIR 58,254 399 73 24 Q A A A A A A A A A
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W7WMO 79,496 523 76 23 A	AA8AV 148,824 954 78 24 A	WD8LLD (+NET) 140,556 901 78 24 B	AA9RB 44,520 318 70 9 A AA9RR 34,950 233 75 18 A	KAØP 20,060 170 59 6 A KBØQQF 16,874 143 59 23 A
K7IOO 13,456 116 58 6 A K7SMW 11,424 112 51 10 A	W8TJQ 80,216 542 74 22 A K8RDJ 68,448 496 69 20 A KBBUKP 67,968 472 72 24 A WA8RRR 67,166 473 71 11 A	W8EDU (+AF8A,N8ARD,WB8WTS,ops) 88,242 573 77 24 A ND8L (+NET) 71,136 456 78 19 A	W9KHH 34,362 249 69 14 A K9QYC 33,280 260 64 18 A AA9PB 24,056 194 62 12 A	KIØW 15,390 135 57 4 A AAØNR 13,260 130 51 24 A KØJPL 9,522 69 69 10 A
K7FR 176,748 1133 78 24 B	AC8W 63,648 408 78 16 A K8SIA 58,220 410 71 12 A	K8CX (+NET) 64,428 413 78 10 A W8VM (+W8IDM)	AA9HL 19,840 155 64 18 A AA9FW 18,176 142 64 17 A	KØYIP 7,938 63 63 6 A NØUMP 2,862 53 27 8 A AAØRT 2,856 51 28 9 A
W7QDM 47,232 328 72 11 Q WB5QMP 12,348 126 49 24 Q	KBSB 53,600 400 67 14 A WD8S 52,728 338 78 23 A WA8QAF 49,932 342 73 18 A	54,760 370 74 15 A AC8E (+K8MR) 41,760 290 72 6 B	N9PBM 720 24 15 8 A	WØEEE (NØZSE,op) 2,652 51 26 3 A
W7ZRC 161,854 1051 77 24 A K7NHA 105,968 716 74 21 A KK7A 92,720 610 76 12 A	K8QLK 49,728 336 74 22 A WA8YPY 45,156 318 71 18 A K8GVK 42,704 314 68 14 A	WZ8P (+NET) 14,112 147 48 11 A West Virginia	KS9K (NØBSH,op) 194,376 1246 78 24 B K9WIE (at WA9ZZV)	K4VX/Ø (WX3N,op) 214,500 1375 78 24 B
WC7F 10,340 110 47 13 B	WB8BUQ 42,240 320 66 10 A KG8QT 35,224 238 74 17 A KC8BW 34,408 253 68 18 A	W8DL 72,352 476 76 20 Q KV8S 42,000 300 70 12 Q	155,344 1022 76 24 B W2WOE 136,500 875 78 24 B NE9U 112,476 721 78 24 B	KMØL 166,140 1065 78 24 B KØDEQ 156,936 1006 78 20 B KMØR 37,076 299 62 8 B
W7UQ (KB7LFO,KI7RO,ops) 47,610 345 69 23 A	WABOJR 33,672 244 69 9 A W8EGJ 32,640 240 68 11 A	KG8GW 48,706 343 71 18 A	WT9Q 91,464 618 74 13 B K9MA 61,568 416 74 8 B	KSØM 32,096 236 68 13 B AAØA (+NØKFE)
Montana AA7BG 174,040 1145 76 24 A	KT8Y 32,128 251 64 6 A W8KZM 28,810 215 67 10 A	N4ZR 166,452 1067 78 24 B	K9LUW (+K9MMS) 127,608 818 78 24 B	17,064 158 54 15 B Nebraska
KC7MZT/T 2,128 38 28 11 A	NU8Z 28,424 209 68 11 A N8VKU 27,472 202 68 11 A N8VEN 25,600 200 64 20 A	K3JT 142,576 938 76 24 B W9LT 127,050 825 77 20 B K8KFJ 32,256 252 64 24 B	Ø Colorado	KBØJSU 149,996 974 77 24 A NV3L 46,800 325 72 20 A
W7LR (+NET) 4,560 60 38 4 B	K8JH 20,732 142 73 19 A W8PGW (W8UE,op) 20,570 187 55 8 A	AL7PT/W8 31,680 220 72 20 B	KØFRP 90,144 626 72 21 Q KØRI 88,160 580 76 24 Q WØCP 63,048 426 74 24 Q	NØLAQ 21,252 161 66 10 A WDØGHA 19,656 156 63 22 A KGØED 10,622 113 47 8 A
Nevada KU7Y 49,248 342 72 24 Q KJ7TB 10,810 115 47 24 Q	W8ROS 19,520 160 61 13 A K88ZYY 18,600 155 60 11 A KE8QT 15,300 150 51 7 A	Illinois K9OM 93,328 614 76 24 Q	NØZA 51,336 372 69 20 Q KF7MD 20,856 158 66 11 Q AEØQ 19,440 162 60 10 Q	NØAEI 10,368 72 72 18 A WJØZ 5,670 81 35 16 A
NC7K 31,070 239 65 6 A	N8TDE 15,288 147 52 21 A N8XMS 12,688 122 52 8 A NX8K 12,096 126 48 10 A	WE9V 51,832 341 76 24 Q WB9UQE 23,316 174 67 15 Q W9NJP 19,942 169 59 6 Q	KIØG 11,520 120 48 10 Q WA5OES 1,364 31 22 6 Q	North Dakota AAØVY 5,680 71 40 5 A
KI3V/7 54,400 400 68 6 B AAØCY (+NET)	WA8FRD 11,956 122 49 12 A KC8AYZ (N8PPQ.op)	KB9IUA 3,840 60 32 13 Q WA9TPQ 134,672 886 76 24 A	KGØPP 240 12 10 24 Q KØEU 180,804 1159 78 24 A	WBØO 206,206 1339 77 24 B
60,900 406 75 20 B	9,588 102 47 12 A WD8NFX 5,832 81 36 8 A W8WVU 5,800 100 29 3 A	K9UIY 133,000 875 76 24 A N9JF 116,732 758 77 24 A W9OF 109,668 703 78 24 A	K4XU (at KØKE) 170,170 1105 77 24 A NØSXX 64,400 460 70 24 A	AAØXH (+KEØA) 62,640 435 72 20 A
Oregon W7YAQ 91,322 593 77 24 Q K8PFY 43,792 322 68 20 Q	KG8OW 5,590 65 43 10 A W8UE 5,488 98 28 4 A N8ZFH 5,220 87 30 13 A	WX9U 104,676 671 78 18 A K9WA 103,116 661 78 23 A WAØAVL 100,788 681 74 24 A	KJ1N 60,006 411 73 16 A AAØQF 51,120 355 72 15 A WBØNHA 44,400 300 74 16 A	South Dakota KEØZ 55,204 373 74 22 Q
AI7W 9,180 102 45 9 Q WE7X 4,352 64 34 7 Q	KB8VVX/N 4,536 81 28 15 A KF8BE 4,290 55 39 6 A KB8QDI 3,120 52 30 12 A	N2CKZ 93,300 622 75 24 A KE9YR 92,112 606 76 23 A	AAØPB 17,516 151 58 12 A KØYBX 16,016 143 56 16 A KAØN 15,368 113 68 11 A	KØJV 3,100 50 31 3 A
AA7KF 147,224 956 77 24 A AA7CP 80,364 543 74 24 A K7DBV 77,824 512 76 19 A	KD8WV 2,400 50 24 12 A WB8HBJ 2,322 43 27 7 A KB8SLD 180 10 9 3 A	K9VFA 80,780 577 70 24 A WX9E 77,520 510 76 24 A WD9GGY 57,816 396 73 16 A	W9KV 10,080 105 48 5 A WBØHZL 6,512 74 44 10 A	WØSD (WDØT,op) 219,604 1426 77 24 B
KI7Y 58,400 400 73 18 A K7PJT 47,742 327 73 21 A	KCBCCE 18 3 3 4 A WB8AFO 8 2 2 1 A	W9IL 54,568 359 76 13 A W9LNQ 45,144 297 76 12 A WB9UGX 42,700 305 70 17 A	WØSG 2,800 50 28 3 A NØTBM 1,596 38 21 10 A	Maritime-Newfoundland VE1GN 42,884 302 71 24 A
AI7B 198,120 1270 78 24 B	K8CC 188,916 1211 78 24 B AA8U 125,112 802 78 22 B	K9PPW 41,760 290 72 10 A K9SB 40,020 290 69 15 A WD9CIR 32,760 252 65 14 A	KØRF 205,744 1336 77 24 B KØKR 202,332 1297 78 24 B W4ETO 121,212 777 78 12 B	Quebec VE2ABO 180 10 9 2 Q
W2VJN 170,664 1094 78 24 B N7MMQ 170,040 1090 78 23 B	K8DD 93,600 600 78 18 B AA8UH 58,400 400 73 18 B KN4RI 26,048 176 74 14 B	W9ZEN 25,870 199 65 12 A N9VGV 25,830 205 63 14 A	ACØS 62,780 430 73 8 B KØAP 37,800 300 63 10 B NQØI 27,328 244 56 4 B	CI2AWR 56,816 424 67 19 A VE2FFE 11,136 116 48 6 A
Utah K6EIL 45,440 320 71 18 Q	WA8ZDT (+K8LX) 180,024 1154 78 24 B	KE9EX 19,398 159 61 11 A W9FXA 19,376 173 56 10 A	KJØG (+W9CQV,KØGAS,WØUAT) 131,362 853 77 24 B	VE2GHI 9,984 104 48 24 A Ontario
W7CFL 78,292 529 74 12 A W7HS 42,192 293 72 22 A	K8JM (+AA8UG) 155,220 995 78 6 B AA8TC (+NET)	WA9AUW 15,336 142 54 8 A WA9QNU 14,250 125 57 3 A AA9KH 13,986 111 63 13 A	lowa	VE3SMA 53,544 388 69 22 Q VA3SB 32,964 246 67 24 Q
NZ7T 5,100 75 34 2 A KJ7TO 390 15 13 5 A	48,600 324 75 19 A KF8YC (+NET)	WV7T/9 13,780 130 53 24 A N9MDK 13,520 130 52 10 A N9LGP 12,376 119 52 7 A	KK9W 154,596 991 78 24 A NØAXL 91,960 605 76 22 A NUØQ 84,388 578 73 24 A	VE3IAY 59,850 399 75 24 A VA3TEE 54,020 370 73 17 A VE3UZ 42,918 311 69 15 A
K8EI 58,546 401 73 14 B AF7O 15,950 145 55 24 B	31,200 240 65 15 A NT8V (+NET) 24,794 161 77 14 B KT8X (+NET) 13,000 130 50 4 A	WA9FBC 11,058 97 57 12 A WA9VVU 10,800 100 54 1 A W9MYY 6,880 80 43 5 A	WDØGVY 80,660 545 74 20 A AAØAI 16,240 116 70 14 A WØJTC 14,840 140 53 9 A	VA3NR 35,604 258 69 10 A VE3ST 23,572 166 71 10 A
AB7GM 15,272 166 46 24 B K6XO/7 (+AB7GM,N5CT)	AA8KR (+N8WIQ) 2,912 56 26 12 A AA8WD (+KG8SI)	AA9NF 4,588 62 37 6 A WA9WXC 336 14 12 4 A	WBØB 14,040 135 52 10 A WB9BXY 11,070 123 45 14 A	VE3OQZ 17,464 148 59 16 A VE3WZ 11,074 113 49 5 A
175,500 1125 78 24 B Western Washington	560 20 14 10 A	K9BG 159,544 1078 74 24 B K9BGL 128,590 835 77 22 B WD9HTC 119,504 776 77 24 B	NCØP 169,862 1103 77 24 B NØLNO (+KØs DAS,VM,KAØIES,KBØNRP,	VE3STT 7,298 89 41 12 A VE3FME 2,700 45 30 10 A
NØAX 107,464 707 76 24 Q WAØRJY 52,500 350 75 24 Q	WA8RJF 72,750 485 75 23 Q KB8GAE 32,830 245 67 9 Q K8OUA 16,744 161 52 10 Q	K9DX 85,332 547 78 8 B K9UQN 82,436 557 74 22 B	KD9KX) 87,704 577 76 22 B	VE3EJ (NJ2L,op) 195,312 1252 78 24 B VE3AWE 38,324 286 67 6 B
N7LOX 131,824 856 77 24 A N6MZ 73,632 472 78 14 A WA7UVJ 65,604 462 71 24 A	K9DTB/8 16,470 135 61 24 Q	K9NR 50,680 362 70 11 B K9ZO 35,328 276 64 5 B KF9D 24,800 200 62 5 B	Kansas KFØM 660 22 15 2 Q	VE3VHB 10,950 75 73 7 B VE3ZTH (+NET)
W7QN 55,200 400 69 15 A AA7VG 54,288 377 72 24 A	WD8IJP 128,700 825 78 21 A K8BL 126,360 810 78 20 A	WO9S 24,240 202 60 3 B N9NCX 12,402 117 53 4 B K9CC 10,528 112 47 3 B	WØUY 59,940 405 74 20 A KØBJ 41,026 281 73 8 A	37,440 240 78 16 B Manitoba
KX7L 52,392 354 74 13 A KI7OT 48,860 349 70 20 A WB9ZPK 40,920 310 66 24 A	N8LXS 107,184 696 77 22 A W8UPH 96,976 638 76 24 A	KG9N 10,212 111 46 2 B WE9A 9,936 108 46 9 B	KØVBU 37,888 256 74 24 A WBØYJT 31,104 243 64 16 A WA8ZNC 22,736 196 58 15 A	VE4GV 130,746 849 77 17 A
AB7RW 40,320 280 72 19 A N7ETC 38,656 302 64 9 A K7CW 34,450 265 65 9 A	N8AA 90,000 600 75 15 A KV8Q 78,150 521 75 24 A WA8YRS 75,168 522 72 19 A	KS9W (+KD5PJ,AA9LX) 193,752 1242 78 24 B N9LCR (+KB9LIL,N9RUC)	KØWA (+KØTQ,WØCEM) 166,440 1095 76 24 B	Saskatchewan VE5SF 122,928 788 78 21 A VE5CPU 15,120 135 56 20 A
K7GDN 26,532 201 66 16 A NG7C 24,034 197 61 19 A W7POE 21,200 200 53 10 A	N8BJQ 63,492 407 78 12 A WT8P 59,500 425 70 23 A WA8RCN 45,440 320 71 15 A	14,934 131 57 19 B	NJ8M (+ops) 149,136 956 78 24 B	VE5TR (+VE5CMA) 68,684 446 77 24 B
AB7GU 19,200 128 75 18 A AB7SW 10,764 117 46 9 A WZ7O 10,486 107 49 24 A	N8ET 37,814 259 73 7 A KB8NTY 30,720 240 64 11 A KG8TS 26,400 200 66 8 A	KF9PL 55,522 391 71 20 Q K9DZE 28,990 223 65 18 Q	Minnesota WAØRPI 85,824 596 72 24 Q WØYHE 9,504 108 44 7 Q	Alberta
WA7NOH 6,960 87 40 24 A W7DRA 5,346 81 33 24 A	WA8AHK 26,230 215 61 24 A NS8O 22,806 181 63 10 A	KO9Y 158,808 1018 78 24 A KJ9C 86,112 552 78 19 A	AAØSM 1,000 25 20 3 Q NØAT (NØKK,op)	VE6BMX 50,912 344 74 18 Q VE6BIR 30,100 215 70 24 Q
KD7LJ 3,780 63 30 8 A KC7MIQ 98 7 7 6 A	W8LHV 21,294 169 63 8 A WZ8A 21,228 183 58 15 A	NJØU 69,750 465 75 23 A NW9G 56,784 364 78 24 A WBØOLA 52,716 382 69 14 A	147,288 969 76 24 A KØAD 146,916 954 77 24 A AAØOB 129,352 874 74 24 A	VE6EX 145,768 959 76 24 A VA6JO 141,180 905 78 23 A VE6KRR 99,864 684 73 24 A
W7RM (AA7NX,op) 206,544 1324 78 24 B K7QQ 190,164 1219 78 24 B	KC8EG 20,538 163 63 9 A W8EJI 16,120 155 52 11 A N8CPA 13,640 110 62 16 A	KC9TV 30,872 227 68 14 A KB9NMU 20,048 179 56 24 A KF9WX 15,048 132 57 13 A	KBØIHM 121,034 829 73 24 A AAØSQ 106,400 700 76 22 A WØPI 75,000 500 75 14 A	KG5HN/VE6 8,652 103 42 14 A British Columbia
NN7L (NL7GP,op) 173,940 1115 78 24 B W7OM 102,492 657 78 16 B	WAØFAX 12,000 125 48 10 A AA8XU 10,800 120 45 13 A WB8WTS 10,200 102 50 3 A	W4WQD 8,856 108 41 12 A	WØWDW 71,188 481 74 10 A KØMPH 51,262 361 71 14 A	VE7CA 34,320 264 65 16 Q VE7YU 53,428 361 74 24 A
W6JL 20,708 167 62 24 B N7DOE 17,024 152 56 14 B	W8DHG 9,936 108 46 5 A KG8BQ 8,652 103 42 7 A K9ALP 7,650 85 45 3 A	W9RE 188,448 1208 78 24 B KE9I 122,460 785 78 20 B	KØJA 38,056 268 71 14 Å KØJE 38,056 268 71 15 Å KBØZQ 35,712 279 64 6 Å	VE7XF 49,786 341 73 22 A
K7NWS (AA7UA,N7GVQ,WB7AEI,ops) 27,260 235 58 14 A	AA8VQ 5,994 81 37 4 A WB8ORV/200 4,560 60 38 24 A AA8QQ 3,360 56 30 13 A	NJ9C (+AA9AX) 150,384 964 78 24 B W9YB (AD4OS,KE4USA,ops)	AAØZV 35,072 274 64 13 A WØUC 21,240 177 60 3 A WØMN 13,000 130 50 8 A	Northwest Territories VE6SH/8 9,588 102 47 14 Q
Wyoming NATE 11,440 104 55 2 A	WA8NVW 1,056 33 16 5 A	18,078 131 69 24 B Wisconsin	WAØWOV 9,660 105 46 7 A WAØWWW 3,200 50 32 2 A ACØW 50 5 5 1 A	Yukon VY1JA 84,084 546 77 24 B
KC7FLX 360 20 9 12 A N7PLJ (+KC7FIM)	KF8GE 75,776 512 74 21 B KU8E 72,800 520 70 10 B KF8TM 72,150 481 75 24 B	WB9HRO 86,700 578 75 21 Q N9NE 61,466 421 73 17 Q WD9IAB 20,862 171 61 17 Q	KØIJL 168,014 1091 77 24 B WØHW 156,288 1056 74 24 B	Checklogs AA2XB, AA8UU, K5GQ, KØRVY,
180 10 9 3 A	W8PN 63,196 427 74 18 B W8FN 53,582 367 73 7 B K8MR 49,104 341 72 5 B	KB9W 12,288 128 48 8 Q KB9KIT/T 96 8 6 10 Q	КØНВ 143,336 943 76 24 В Міввоцгі	KC7SSM, KD4FAZ, KF8UN, KGØUA, NØXCF, VE5COY, W7LR, WA5FRF, WA8ETY.
Michigan WB8RUQ 71,188 481 74 23 Q KRNWD 41 038 289 71 24 Q	NZ8O 47,610 345 69 9 B NG8D 46,900 335 70 8 B N8ATR (K8MR,op)	KBØBAN/T 60 6 5 4 Q	NØEID 31,222 233 67 24 Q KBØTWH 2,880 48 30 11 Q	
K8CV 35,532 282 63 12 Q K8LJQ 25,608 194 66 20 Q	42,568 313 68 5 B W9OCF (K8MR,op) 40,950 315 65 6 B	N9CKC 136,344 874 78 24 A N9XX 127,296 816 78 24 A N9CIQ 124,124 806 77 24 A	WAØX 113,664 768 74 24 A NSØB 82,800 552 75 12 A	
WB8AAX 22,230 171 65 8 Q N8MK 14,520 132 55 8 Q KB8LFQ 10,350 115 45 11 Q	N8XPL (K8MR.op) 33,536 262 64 5 B KW8N 23,028 202 57 4 B	WA1UJU 113,004 774 73 24 A W9LO 88,892 626 71 21 A AA9OC 79,872 512 78 8 A	K4LTA/Ø 72,150 481 75 21 A WB4RDV 66,722 457 73 20 A AAØXZ 64,972 439 74 24 A	•
KB8VVY/T 10 5 1 3 Q N8RWK 2 1 1 1 Q	KJ8l 19,272 146 66 15 B	W9MSE 79,500 530 75 24 A AA9BJ 78,144 528 74 24 A	WAØIYY 53,960 380 71 15 A KØYR 24,000 160 75 9 A	05 7-
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