

ARRL Periodicals Archive – Search Results A membership benefit of ARRL and the ARRL Technical Information Service

ARRL Members: You may print a copy for personal use. Any other use of the information requires permission (see Copyright/Reprint Notice below).

Need a higher quality reprint or scan? Some of the scans contained within the periodical archive were produced with older imaging technology. If you require a higher quality reprint or scan, please contact the ARRL Technical Information Service for assistance. Photocopies are \$3 for ARRL members, \$5 for nonmembers. For members, TIS can send the photocopies immediately and include an invoice. Nonmembers must prepay. Details are available at www.arrl.org/tis or email photocopy@arrl.org.

QST on CD-ROM: Annual CD-ROMs are available for recent publication years. For details and ordering information, visit www.arrl.org/qst.

Non-Members: Get access to the ARRL Periodicals Archive when you join ARRL today at www.arrl.org/join. For a complete list of membership benefits, visit www.arrl.org/benefits.

Copyright/Reprint Notice

In general, all ARRL content is copyrighted. ARRL articles, pages, or documents-printed and online--are not in the public domain. Therefore, they may not be freely distributed or copied. Additionally, no part of this document may be copied, sold to third parties, or otherwise commercially exploited without the explicit prior written consent of ARRL. You cannot post this document to a Web site or otherwise distribute it to others through any electronic medium.

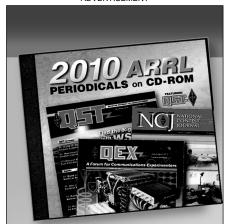
For permission to quote or reprint material from ARRL, send a request including the issue date, a description of the material requested, and a description of where you intend to use the reprinted material to the ARRL Editorial & Production Department: permission@arrl.org.

QST Issue: May 1996

Title: Results, 1995 ARRL November Sweepstakes

Author: Randall A. Thompson, K5ZD

Click Here to Report a Problem with this File



2010 ARRL Periodicals

on CD-ROM

ARRL's popular journals are available on a compact, fully-searchable CD-ROM. Every word and photo published throughout 2010 is included!

- QST The official membership journal of ARRL
- NCJ National Contest Journal
- QEX Forum for Communications Experimenters

SEARCH the full text of every article by entering titles, call signs, names—almost any word. SEE every word, photo (including color images), drawing and table in technical and general-interest features, columns and product reviews, plus all advertisements. PRINT what you see, or copy it into other applications.

System Requirements: Microsoft Windows™ and Macintosh systems, using the industry standard Adobe® Acrobat® Reader® software. The Acrobat Reader is a free download at www.adobe.com.

2010 ARRL Periodicals on CD-ROM

ARRL Order No. 2001 **Only \$24.95***

*plus shipping and handling

Additional sets available:

2009 Ed., ARRL Order No. 1486, \$24.95 2008 Ed., ARRL Order No. 9406, \$24.95 2007 Ed., ARRL Order No. 1204, \$19.95 2006 Ed., ARRL Order No. 9841, \$19.95 2005 Ed., ARRL Order No. 9574, \$19.95 2004 Ed., ARRL Order No. 9396, \$19.95 2003 Ed., ARRL Order No. 9124, \$19.95 2002 Ed., ARRL Order No. 8802, \$19.95 2001 Ed., ARRL Order No. 8632, \$19.95



Results, 1995 ARRL November Sweepstakes

By Randall A. Thompson, K5ZD 11 Hollis St, Uxbridge, MA 01569 e-mail: k5zd@contesting.com and Billy Lunt, KR1R Contest Manager

lan slowly rocked his VFO back and forth. His search had lasted more than a day and he didn't want to miss out through some small bit of momentary carelessness. He needed just two sections to complete his Clean Sweep in the 1995 ARRL Sweepstakes Contest.

As Alan tuned carefully through the bands, he thought about the difficulties his elusive prey must be facing. One was probably sitting in the warm sunshine of the Caribbean contemplating life in a new way following the devastation of Hurricane Marilyn. Ham radio had done serious duty providing emergency communication during and after the hurricane that roared through the US Virgin Islands just weeks before. Would anyone there have the time or interest to work a contest?

Alan's other target was to find a ham holed up in a warm shack escaping from the frozen weather of the Canadian Yukon or Northwest Territories. Even if they were there, would the aurora permit their signal to penetrate southward?

Alan wondered if he should turn the beam north and listen for weak, watery signals with auroral flutter. Or point it south, in the hopes of finding a KP2 or KG4 station. Of equal concern was the falling QSO rate as he vainly searched for these last two sections instead of calling CQ on 20 or 40 meters.

Just as he was about to give up, he heard KP2N high in the band at 21.071 MHz. Wow, what a pileup. "I guess everyone else needs him for the Clean Sweep too," Alan thought.

At the same time, KP2N realized his generator was about to run out of gasoline. He told the pileup to wait and that he would be back in five minutes. The bedlam that came from the headphones was filled with desperation. Despite having to use a generator and temporary antenna, Ron was attracted by the PINS program and wanted to help his fellow contesters make their Clean Sweeps. He decided to camp out on one frequency all day Sunday in the hope that everyone would be able to find him.

Alan was stunned. He had just found what he was looking for, only to have the station go QRT. He dejectedly punched the frequency into his second VFO and kept tuning. He would check back in a few minutes to see if the KP2 would return.

Alan turned his beam north and continued tuning down from the top of 20 meters. Any VE8 or VY1 station would move him one step closer to earning a cup. Signals were pounding in from all parts of the US and Canada. It was clear that SS activity was again at a record high.

Just as he reached the very bottom of the band, Alan thought he heard something



14-year-old Daren, AC6NS, operated in his first CW SS, and says, "I finally worked Delaware for my CW WAS!"

Top Ten

CW		Phone	
Single Operator,	QRP	Single Operator,	QRP
K2ZJ	123,880	WBØGAZ	103,452
KD8G	112,500	K2PO/7	96,944
KØFRP	100,740	W7YAQ	82,384
K2PO/7	96,944	KF9PL (at NO9Z)	76,350
K9AY	96,644	WT3W	73,416
W1MJ	95,046	KB2R (at K1VR)	70,984
КЗТМ	94,424	AAOOB	66,900
AD8J	89,836	KØFRP	65,968
KI4UZ	85,994	AG3H	61,560
WAØRPI	85,820	N5NMY	52,052
Single Operator,	Low	Single Operator,	Low
Power		Power	
KRØY	204,974	VE4GV	247,324
KØEU	186,900	NA5S (KE5CV.op)	246,862
KP4VA	175,200	KP2/KE2VB	239,096
(KP4TK,op)		W2CRS	224,378
N4ZZ	168,630	NM5M	222,530
W5XX	165,450	N4EEB	213,598
KM9P (K7GM,op)		K7FR	210,056
W7ZRC	164,160	AA8AV	206,052
K7OX	163,240	NØAT	205,898
NØAT	162,900	WXØB	203,126
KO9Y	162,162	Single Operator,	
Single Operator,	High	Power	
Power		N5RZ	361,284
W5WMU	238.084	N2IC/Ø	343,112
(N6TR,op)	200,004	K6LL	326,942
N5RZ (K5GA,op)	228,690	AA5BL	325.094
K5GN (at K2UA)	219,912	KA5W (KS1G,op)	316,624
K1ZX	218,424	KI3V/7	314,622
KI3V/7	218,218	WØSD (WDØT,op)	
W6GO (N6IG.op)	217,910	N7ML	306,306
NCØP (AG9A,op)	217,756	AB5KD	305,228
K6LL	217,294	(WB5VZL,op)	303,220
N6UR (KR6X,op)	215,600		303,534
	213,906	N3BB	303,334
(WX3N,op)	213,900	(AA5RB,op)	
A SOURCE CONTRACTOR		Multioperator	050 044
Multioperator	007 400	K9RS	352,044
AA5B	237,160	KW8N	332,640
K7UP	217,140	K5MR	308,000
W3GH	211,596	W3GH	303,534
KMØL	180,334	NXOI	300,454
KY1H	180,334	AB4RU	299,222
KS9W	179,872	WD9INF	288,750
N6VR	178,332	WØCEM	269,654
N6ZS	178,178	N4ZZ	263,186
K6XO/7	178,024	W6EEN	258,412
ABØS	176,928		

strange. He couldn't really say why, but he stopped his tuning for a few seconds. There it was, a fluttery signal slowly and carefully sending the long SS exchange. At the completion of the QSO, Alan realized it was VY1JA. Jay has been responsible for many Clean Sweep mugs sitting proudly in shacks across the country. Alan called high, low and zero beat in the pileup. Nothing seemed to be working, and VY1JA was getting weaker as the band changed. Alan checked the other VFO and was amazed to hear that KP2N had returned. What a dilemma!

With the clock ticking, his score and a Clean Sweep mug hanging in the balance, Alan pondered what to do. What would you have done?

CW-Lower Sunspots, Higher Scores

If the sunspots keep going down, why do scores keep going up? The answer is more and more activity! Ten meters was virtually useless, and 15 not much better. But the top scorers adjusted their strategy to the low bands and kept running. Almost every area of the country reported 40 meters to be the equivalent of the Energizer Bunny—it just kept going and going.

The race for the high-power title was an interesting game of musical stations. Tree, N6TR, traveled from his home in Oregon to take the controls at W5WMU in Louisiana. Bill, K5GA, a former winner and last year's op from W5WMU, jumped on Southwest Airlines to visit the West Texas Section and N5RZ. It was a good old-fashioned grudge match. When the contest ended, Tree thought he had the contest well in hand. That was before he discovered he had accidentally operated 25 hours (the rules limit you to 24!). After subtracting his last hour of QSOs from the log, the margin was a little closer. Even so, Tree had enough in the log to finally earn his first Sweepstakes victory! Tree missed tying the all-time record score by only one QSO.

In third place was Dave, K5GN, operating in South Texas from the station of K2UA. Close behind was a first-time member of the Top Ten, K1ZX. Operating from South Florida, Jim made over half of his contacts on 40 meters while accomplishing a goal he has been working toward for years. Too bad he missed KP2 for the sweep! Tops from out west was Rich, K13V/7, in Nevada. Rich just got by Jim, N6IG, operating at W6GO. Jim ragchewed with WP2T to get his VI multipler! AG9A piloted NCØP in Iowa to his best finish ever.

A noteworthy score was submitted by KZ2S operating from N2NT in New Jersey.

John finished twelfth, just four QSOs and one multiplier out of the Top Ten.

The "A power" category (less than 150 W) saw a new player this year. After years of successful high power SS efforts, Jeff, KRØY, decided to operate from his station on a 100×150-foot city lot in suburban Dallas. Skill and geography became a powerful combination, as he annihilated the competition by over 100 QSOs. Jeff's score just missed the all-time record for A power. Who says you need a giant station to find success in the SS?

KØEU in Colorado put up a spirited fight to take second. Randy has finished second several times on phone—now he has duplicated the feat on CW! Eric, KP4TK, operated his school's club station, KP4VA, to fulfill the demand for Puerto Rico. Eric was lucky enough to have VY1JA call in with only 10 minutes to go. But he had the bad luck to miss both VI and PR (his own section!). Either one would have moved him into second place. N4ZZ in Tennessee got his clean sweep to finish fourth, ahead of W5XX in Mississippi. K7GM visited the mountaintop station of KM9P in Georgia to capture sixth, just ahead of W7ZRC.

Each year, the QRP entrants demonstrate the value of talent and skill in making Sweep-stakes contacts. This year the clear winner was K2ZJ in WNY. He coupled a 64 QSO lead with the best section count in the QRP Top Ten to easily take the plaque. KD8G in WV finished second, with KØFRP in Colorado placing third.

Dynasty! The TV series? No, the fourth win in a row for the AA5B multi-op team in New Mexico. They had some local competition this year from another NM station, K7UP. But experience counts—the Banana Boys finished over 100 QSOs ahead. Back east, W3GH in WPA finished a close third.

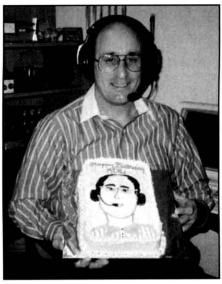
Clean Sweeps were difficult, but not impossible—there were 112 Clean Sweeps in the logs received. In addition to VY1JA in YK/NWT, others reported finding VE8TA, VE8NT and VE8NC. The Virgin Island Section was represented by KP2N, KP2BH, WP2T and KG4SH. Special thanks to all of them for making the contest more fun!

ARRL HQ received 1367 CW entries, with 1242 single operators, 118 multiops and 7 checklogs. Of the single ops, we had 143 QRP, 863 A-power (150 W), and 236 B power (>150 W) entries. Special congratulations to those stations that earned a Participation in November Sweepstakes (PINS) pin!

Phone—Sweeps for Everyone

While Clean Sweeps (or lack of them) was the story on CW, the Phone contest saw serious activity from every section. With the challenging goal of making VY1 as easy to find as Ohio, Bruce, AA6KX, drove over 2700 miles to visit VY1JA in the Yukon. With the help of VE8EV, who was also active on the bands, he made YK/NWT very easy to find. Meanwhile, KE2VB took a slightly warmer direction and operated from the Virgin Islands. If there were any truly rare sections, many entrants commented that MS, ME and SF were their last ones.

Individual impressions of the Phone Sweepstakes varied greatly, depending on what part of the country you operated from. Out West, logs were filled with 15-meter QSOs and complaints of how bad 75 meters



John, AD8J, celebrated his birthday during the Phone SS. If his voice sounded muffled, it's probably because his mouth was full of cake!



"I did it! I broke 100k!" Wes, AC5K, seems pretty happy with his finish in CW.

was. In the Midwest and East, 75 meters and its short skip to the population centers was the mainstay. In the South and Middle of the country, 20 meters supplied the majority of contacts. Forty meters is important too, if you can find a home between the broadcast heterodynes. Some entrants even reported good activity and good conditions on 160 meters. It's all part of finding a winning strategy.

Winner of the High Power category was Ralph, N5RZ, operating from West Texas. Ralph admits that West Texas is not propagationally challenged for SS. His 2371 QSOs is an average of almost 100 per hour for the entire contest—wow! Pulling easily into second place was Steve, N2IC, in Colorado. Steve just didn't have the 15-meter openings into W8 and W9 he needed to keep up. There was a very close race for third, with K6LL just getting by AA5BL, KA5W and KI3V/7. Rich, KI3V, operated only 23 hours! Five members of the Top Ten were from Texas, with WØSD (SD) and N7ML (ID) the

only ones to make it from Up North. Honorable mention goes to the top score from Back East by Tyler, KF3P, in Maryland, who finished 13th overall.

The Low Power competition was a close race between three widely separated stations. Rob, VE4GV, operated only 22 hours, yet won by just 3 QSOs. Second place went to former SS A power champ, Mike KE5CV, operating NA5S in Dallas. Just behind Mike was Larry, KE2VB/KP2. Despite giving out so many Clean Sweeps, Larry missed the Pacific Section for his own Sweep. Moving up after several years in the QRP class, W2CRS in Colorado took fourth place. The low power category continues to offer the closest competition each year.

Many operators agree that the Phone Sweepstakes, with its high activity and long exchange, is one of the most demanding contests in the world. For those operators who choose the QRP category, this is definitely true! Experience counts, as shown by this year's winner, Dave, WBØGAZ, moving up from his fifth place finish of last year. Dave made most of his contacts on 15 and 20 meters. He missed Mar, WY and AK for the Sweep. Bill, K2PO/7, took advantage of his Idaho location and 15-meter propagation to finish second. W7YAQ in Oregon also did very well on 15 meters, taking third place.

The Phone multi-operator title saw excellent scores from all areas of the country. On top was a repeat champion, K9RS from New Mexico—the same operating team that won on CW as AA5B. These guys obviously know what they are doing! In second is the high-tech multi-op effort of KW8N in Ohio. Bob and his team use networked computers and interlocked radios to extract every last QSO out of the bands. Third place was almost a tie among K5MR, NØXI and W3GH. Imagine being only a few contacts apart at the 2000-QSO level! AB4RU was close behind, in sixth place.

ARRL HQ received 1665 Phone entries. Of the 1318 single op entries, we had 71 QRP, 937 A-power, and 310 B-power logs. There were 329 multi-op logs and 18 checklogs. Special congratulations to those stations that earned a Participation in November Sweepstakes (PINS) pin!

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 and sections, chosen for a "best fit," in terms of common geography or population.

On CW, the Northeast region had a threeway low-power battle among WA2SRQ, K1TR and KC1F. It was SRQ's first time over 1000 QSOs with low power. K5ZD just got by K1TO for the New England Division record. The close race on Phone was between KF3P and KE3Q in Maryland—they finished only five QSOs apart!

The Southeast region extends from Virginia to Louisiana to the Caribbean. Check out the photo finish between CW multi-op entries N4EEB and NJ4F. AA4NC and N4ZC battled on Phone for tops in North Carolina.

In the Central region, guest op K8NZ finally got to operate CW SS. After years

Top Five, CW

Payer list call sign	score and class (Q =	ODD A - I	OW POWER B	- High Power	M - Multionerator)
Boxes list call sign.	score and class IU =	: (JRP. A = L	ow Power. B:	= mign Powei.	W = Wullioperator)

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke ar Southeastern Divis	nd		Central Region (Central and Great Divisions; Ontario			Midwest Region (Dakota, Midwest, Mountain and Wes Divisions; Manitob Saskatchewan Sec	t Gulf a and		West Coast Regio (Pacific, Northwes Southwestern Divi Alberta, British Co NWT/Yukon Section	estern and Ivisions; Columbia and	
K2ZJ	123,880	Q	KD8G	112,500		WA8RJF	83,232		KØFRP	100,740		K2PO/7	96,944	
W1MJ	95,046	Q	KI4UZ	85,994		N9NE	77,328		K9AY	96,644		N7IR	78,952	
K3TM	94,424	Q	KB4GID	79,650		K9WA	69,642		WAØRPI	85,820		W6JTI	78,588	
AD8J	89,836	Q	K5IID	74,000	Q	WB8RUQ	61,640		KØRI	82,052		W6IO	76,942	
AK2P	81,900	Q	W4PRO	64,800	Q	NJ9C	56,800	Q	WV5S	73,584	Q	VE6BMX	60,200	Q
WA2SRQ	157,776	Δ	KP4VA (KP4TK,op)	175,200	Δ	KO9Y	162,162	Α	KRØY	204,974	Α	W7ZRC	164,160	Α
KC1F	153,900	Â	N4ZZ	168,630		K8BL	154,308		KØEU	186,900		K7OX	163,240	Α
	153,900	Ä	W5XX	165,450		N8JEC	148,302		NØAT	162,900		W7RM (AA7NX,op)		
K1TR		Ä	KM9P (K7GM,op)	164,768		N4TY	146.550		AD5Q	160,664		AI6V/KH6	153,450	
KZ1M	138,138		KØLUZ	161,120		N4OGW	145,160		WØWDW	155,344		AA6PW	150,150	
N2MM	127,500	Α	NULUZ	101,120	^	1140011	140,100		***************************************	100,044	•	70.00	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
N2NT (KZ2S,op)	210,520	В	W5WMU (N6TR,op)	238.084	В	K8AZ (K8NZ,op)	193,732	В	N5RZ (K5GA,op)	228,690	В	KI3V/7	218,218	
K5ZD	209.748	B	K1ZX	218,424		KS9K (NØBSH,op)	190,806	В	K5GN (at K2UA)	219,912	В	W6GO (N6IG,op)	217,910	В
K1TO	200,488	B	N4BP	200.640		WM4T (KU8E,op)	179,718	В	NCØP (AG9A,op)	217,756	В	K6LL	217,294	В
KF3P	187,572	8	WC4E	196,384		W8FN	168,872	В	K4VX/Ø (WX3N, op)	213,906	В	N6UR (KR6X,op)	215,600	В
W1WEF	187,572			189,300		N4XM	168,112	В	KØRF	213,560	В	N6TV	209,608	В
*********	101,012	_	11101	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,										
W3GH	211,596	М	N4EEB	158,550	М	KS9W	179,872		AA5B	237,160		N6VR	178,332	
KY1H	180,334	М	NJ4F	158,312	M	AA8U	172,018	М	K7UP	217,140	М	N6ZS	178,178	
WA2UKP	127,512	М	K5MC	117,968	M	WØAIH	165,396		KMØL	180,334		NB6G	174,174	
K3WW	120,120		WB8BMV	115,520	М	K8JM	151,696	M	K6XO/7	178,024	М	AA6WJ	166,782	
W3OV	120,000	М	W4ATC	77,700		WD8LLD	148,918	М	ABØS	176,928	М	N6KI	163,394	М
11001	.23,000			,,,,								···		_

Top Five, Phone

, op, .														
Boxes list call sigr	n, score and	d clas	s (Q = QRP, A = Low	Power, B	= Higl	h Power, M = Multiope	erator)							
Northeast Region			Southeast Region			Central Region			Midwest Region			West Coast Re	egion	
(New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			(Delta, Roanoke ar Southeastern Divis	ıď		(Central and Great Divisions; Ontario			(Dakota, Midwest, Mountain and Wes Divisions; Manitol Saskatchewan Sec	it Gulf oa and		(Pacific, North Southwestern Alberta, Britisl NWT/Yukon Se	Divisions; ว Columbia ar	QQQQQ AAAAA B
WT3W KB2R (at K1VR) AG3H AD8J WE2H	73,416 70,984 61,560 44,092 27,904	aaa	KN4QS AD4TT WF4U AC4HF W4QO	29,104 18,666 17,820 10,800 10,388	aaa	KF9PL (at NO9Z) KO4BI WA8RJF W8ERN K8LJQ	76,350 50,616 40,256 32,850 21,760	aaa	WBØGAZ AAØOB KØFRP N5NMY KØRI	103,452 66,900 65,968 52,052 43,632	aaa	K2PO/7 W7YAQ W6CN N7JXS N6AZR	96,944 82,384 36,328 35,510 30,680	Q Q Q
KZ1M WA1S WW3V KB3AFT WA3HAE	182,490 169,400 165,396 146,520 138,138	A A A	KP2/KE2VB N4EEB KB5WWA WA4ZXA AC1O/4	239,096 213,598 176,176 159,544 140,140	A A A	AA8AV AA4RX W9UP (NØBSH,op) K8BL WX9E	206,052 169,400 168,784 155,848 138,138	A A A	VE4GV NA5S (KE5CV,op) W2CRS NM5M NØAT	247,324 246,862 224,378 222,530 205,898	A A A	K7FR W7ZRC N6HC N6NF KC6X	210,056 202,202 192,192 183,160 163,086	A A A
KF3P KE3Q WB1GQR (WB2JSJ,op) W1WEF K2ZJ (WA2LCC,op	291,368 284,130 266,728	B B	W5WMU (KZ5D,op) W4MYA WZ4F AA4NC (KI4HN,op) N4ZC (WB5M,op)	275,814 269,192	B B B	WE9V (at KS9K) KBCC (WD8IJP,op) K9BGL NZ8O WØAIH (NØAXL,op)	285,670 252,406 238,392 235,620 228,844	В В В	N5RZ N2IC/Ø AA5BL KA5W (KS1G,op) WØSD (WDØT,op)	361,284 343,112 325,094 316,624 313,544	B B B	K6LL KI3V/7 N7ML WC6H KD6UO	326,942 314,622 306,306 296,552 260,568	В В В
W3GH KY1H KY2J K1KP N2KJM		M	AB4RU N4ZZ KC4DY KO4EW W5YM	299,222 263,186 239,624 229,768 214,830	M M M	KW8N WD9INF AA8U N9QX KG8EF	332,640 288,750 250,250 247,324 231,616	M M M	K9RS K5MR NXØI WØCEM KØDD		M M M	W6EEN K7IR WV7Y N6NB N6KI	258,412 248,864 243,320 232,386 225,610	M M M

of conflicts with football coaching duties, Ron took advantage of the opportunity to win in the region's high power category. On Phone, WE9V worked almost 1000 QSOs on 75 meters to set a new WI record. AA8AV put up a Top Ten score to outgun rivals AA4RX and W9UP.

The toughest region? How about the Midwest region, which stretches from North Dakota to Texas. Plenty of Top Ten and near-Top Ten scores in this crowd. KØRF puts together a great score on high-power CW and barely makes the region box. On Phone, this region has the number one score for all four categories! That's tough competition.

Out in the West Coast region, there were dogfights for high- and low-power CW honors. W7ZRC just got by K7OX on low power while K13V aced out W6GO, K6LL and N6UR. How many Clean Sweeps would have happened without A16V/KH6 (CW) and KH6RS (phone)? K2PO/7 submitted Top Ten QRP scores for both modes. He was pushed along by N7IR on CW and W7YAQ on Phone.

Club Competition

In the Affiliated Club Competition's Unlimited category, the Northern California Contest Club put together 99 logs to accomplish their *fourth* consecutive victory. Can anyone challenge them? The Potomac Valley Radio Club made a serious effort by more than doubling their entries from last year, but it wasn't enough to catch the NCCC juggernaut.

In the Medium Club category, the Mad River Radio Club moves up to the number one spot. The Southern California Contest Club stepped down from their usual number-one spot in the Unlimited category to finish second. Last year's Medium Club winner, the North Texas Contest Club, placed third.

The Local Club gavel belongs to the River City Contesters, until someone can pry it away from them. With victories five of the past six years, they have a tight grasp on the title. The Carolina DX Association moved up to the number two spot, just passing the Hudson Valley Contesters and DXers.

Final Notes

Special thanks to Assistant Contest Manager Warren C. Stankiewicz, NF1J, and Contest Assistant Rich Moris, KB1LE, for their help in preparing the results. Mark your calender now for the 1996 ARRL September Sweepstakes: CW is November 2 to 4 and Phone is November 16 to 18.

SOAPBOX

CW

Band conditions were great, especially on 40! Thanks to everyone who had the patience to dig my QRP signal out of the QRM! (AAIJM). Funny how it always seems to happen—After a desperate search for North Dakota, I finally caught KEØA for my Sweep—then WBØT called me just eight QSOs later, on a different band (W1ECH). Propagation seemed to be good this year. It was hard to find a clear spot on the band to call CQ! (N2LSK). This is the best contest in the world (N2WK). Conditions were great for being in a solar cycle slump. 80 meters was excellent (N2DM). This was my first CW contest entry in 35 years (WA2RBO). I had a great time, even though no one heard me on 15! (N3MHW). This was the first time I've ever tried Sweepstakes.

107

Unlimited Category	Score	Entries	CW Winner	Phone Winner
Northern California Contest Club	7,986,898 6,764,130	99 98	KI3V/7 KT3Y	KI3V/7 KF3P
Potomac Valley Radio Club Yankee Clipper Contest Club Frankford Radio Club	4,252,176 3,898,826	66 54	K5ZD N2NT (KZ2S,op)	K1RQ (NJ1F,op) WB2K
Medium Category Mad River Radio Club	5.028.046	47	WM4T (KU8E,op)	K8CC (WD8IJP,op)
Southern California Contest Club	4,292,402	37 33	K6LL AA5BL	K6LL AA5BL
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4,121,734 3,258,222 2,867,180	33	KO9Y	WE9V (@ KS9K)
dinnesota Wireless Assn North Coast Contesters	2,867,180	30 35	KØIJL K8AZ (K8NZ,op)	WØAIH (NØAXL,op) K8BL
Vestern Washington DX Club	2,068,858	20	NØAX	K7RI (AA7FT,op)
Kentucky Contest Group Murphy's Marauders	3,258,222 2,867,180 2,737,604 2,068,858 1,913,334 1,626,402 1,591,786 1,507,282 1,448,384	31 18	N4XM K1TO	AA4RX W1WEF
Florida Contest Group Fexas Assn of Contest Ops	1,591,786	14 7	K1ZX NM5M	N4EEB KA5W (KS1G,op)
	1,448,384	14	N5RZ (K5GA,op)	W5ASP
Mile High DX Assn Rochester (NY) DX Assn	1,425,474 1,421,002	12 26	KØKR W6XR	N2IC/Ø K8FC
Nashville ARC	1,099,432 993,078	9 13	N4ZZ K2ZJ	KØEJ K2ZJ (WA2LCC,op)
Salt City DX Assn New Mexico Big River Contest Club Central Texas DX and Contest Club	817,586 749,802	3		KB3EI
Central Texas DX and Contest Club Woodbridge Wireless	749,802 698,752	5 15	WA5TOS N4LJS	AB5KD (WB5VZL,o WD4KXB
Left Coast Contest Club	681,900	4 5	N7MMQ W5UDA	WA7FAB W5CCP (AH9B,op)
Oklahoma DX Assn Troy ARA	656,880 648,716	25	WA1KKM	WA1KKM
Kansas City DX Club Motor City Radio Club	565,492 537,580	37	NJ8M K8SIA	NJ8M K8SB
Great Falls Area ARC	536,350	6	AA7BG	K7LUH AE2T
Western New York DX Assn Providence Radio Assn	470,476 460,140	11	KW2J K1MD	K1VSJ
Cascade Contest Club	456,754 435,212	5 12	W7RM (AA7NX,op) N2JOH	K9JF KF2LW
Rip Van Winkle ARS South Jersey Radio Assn Southeastern DX Club	434,222	24	W2ESX	N2LCR
Willamette Valley DX Club	432,890 380,380	6	K4BAI AA7KF	K4BAI W7YAQ
Northrop Grumman Radio Club Hazel Park ARC	368,632 363,132	8 21	N6GL WD8S	K6HRT WD8S
Eastern Iowa DX Assn	348,054	4	KFØH	WØOF
Hamfesters Radio Club Grand Mesa Contesters	334,522 332,390	10 5	W9LNQ N5ZR	N9RIT KGØZI
Long Island Mobile ARC	330,520	5 7 7	K2AU WA1UJU	KS2G WA1UJU
Kettle Moraine Radio Amateurs Parkersburg Amateur Radio Klub Schenectady ARA	328,108 321,160	7	KD8G	N8YYS
Schenectady ARA Radio Club of Tacoma	311,572 262,050	7 15	K2UF K7PUC	K2UF N7DOE
Central Michigan ARC	261,956	10	W8TJQ	W8TJQ KS5C
Upper Lake Livingston Wireless Assn Valley Radio Club of Eugene	246,654 241,574	3 6	KS5C K7DBV	N7IXG
Meriden ARC West Park Radiops	237,390	4 8	K1TG W8PN	KE1AU AF8C
Ramapo Mountain ARC	217,192	7	KB2POP	KB2POP
Fon du Lac ARC Downey ARC	241,574 237,390 221,514 217,192 207,300 198,228	6	W9MSE AC6EF	ND9O AC6EF
Wyoming DX Contest Club California Central Coast DX Club	196,434 172,028	5 3 3	NC7O W6TKF	N7MZW W6TKF
Albany ARA	170,634	3	WB2YLR	WB2YLR
Highland ARA Lebanon Valley Society of Radio Amateurs	156,732 138,548	6	KJ8I N3FOG	KJ8I WT3H
Brockport Amateur Radio Klub	132,652 126,192	8	N2WK WD8NFX	KF2XC N5XHT
Livingston ARK Jersey Shore ARS	121,238	4	WB2DIN	WB2DIN
Virginia Beach ARC Goddard ARC	117,144 114,036	5	KC4UFN W3/G3ZCZ	KN4US N2US
Southwest Ohio DX Assn	111,476	3 7	KF8GE W9FBC	WA8LOW AA9NM
Fox Cities ARC Sterling Park ARC	107,784 107,504	4	K4GEL	W4LMJ
Lynchburg ARC	99,722 99,450	4 5	WD4ELJ WA3YON	WD4ELJ WB3FAA
Murgas ARC OH-KY-IN ARS	97,278	5		N8ZFM
Wichita ARC Mississippi Valley DX/Contest Club	96,880 95,520	3	KFØM KIØW	NIØS KØJPL
Lincoln Trail ARC L'anse Creuse ARC	91,234 68,284	4 3	KT4DQ	AD4SM WB8ZJL
Poughkeepsie ARC	63.966	5	K4SF	AA2OI
Durango ARC Fresno ARC	61,786 56,388	3	AAØQF WB6ITM	AAØQF WB6ITM
Cheshire County DX Assn	52,084	3	W6SYM	N1CNI KJ7OF
Green Valley AÁC Rowan ARS	49,490 47,800	6 4	- WOSTWI	KQ4OQ
Capital City ARS Puerto Rico DX Club	20,712 4,604	3	KP4DDB	KA3DOF KP4DDB
Local Category River City Contesters	1,817,716	10	W6GO (N6IG,op)	<u></u> -:
Carolina DX Assn	944,524	7	N4ZC	AA4NC (KI4HN,op)
Hudson Valley Contesters and DXers Federation of Amateur Radio Operators	873,874 872,500	8 10	W2XL K9BGL	AA2GS K9BGL
Northern Arizona DX Assn Eastern Connecticut ARA	459,402 417,180	9	NG7S KZ1M	NF7E KZ1M
North Shenandoah DX Assn	337,186	7	N4MM	K8OQL
Sturdy Memorial Hospital ARC Orange Park ARC	299,034 264,922	5 8	W1XS NU4Y	W1XS KS4KP
Vicksburg ARC	257,846	3 5	W5XX	N5QDE AA8PA
Kalamazoo ARC Falmouth ARA	234,240 214,970	4	AA8RB WT1O	KA1IOR
Dauberville DX Assn Kanawha ARC	211,520 206,968	6 5	WB3AAL K8MBH	WB3AAL W8NR
Roanoke Valley ARC	188,650	4	200	KE4PUC
East Coast DX Assn Mike and Key ARC	169,892 159,906	4 6	KA2ANF WA7UVJ	WB2RQX W6PKW
Purdue ARC	116,454	4	KF9UP	KF9UP KA2CNG
Binghamton ARA American Red Cross Emergency	112,604 98,588	5 6	=	WB2AYQ
Communications Society Baton Rouge ARC	90,388	3	KC5ZZ	N5SMQ
Norwood ARC	81,442	3	WA1OLV KB2JE	WA1OLV KB2JE
10-70 Repeater Assn	64,244 30,298	3	W2HD	KM4DU



Is the fan for the rig, the computer, or the operators? Kes, KB5IXI (I) and Alen, KB5VLA work the Phone SS at KB5RQL.



Work them faster! Carson, KD4WQO (I) and Matt, KC4VZK, (third from left) urge on OB, N4IAG (second from left) and Don, W4ZYT, at the W4ZYT operation on the Outer Banks of North Carolina.

It was a lot of fun, even though I didn't have much time (K3ATO). I got a little run going on 80. "Loop skywires" really play in this contest (ND3F). My stealth antennas came through! (AA3HM). I had a lot of fun chasing sections in a limited time (K3YDX). This was my first Clean Sweep ever—what a thrill! (N3IXR). I'm glad I got a computer to log with (W3HDH). It's always fun to see how many QSOs can be made with QRP (KB4GID). Even though the exchange is long, the operators were more civilized and polite (N4LJS). I started out trying to fill holes in my 5BWAS, but wound up having a lot of fun! (W3FTG). I had my last mult by late Sunday morning, so it wasn't a mad dash at the end of the contest (NJ4F). What a great contest for the average station. My score finally broke 100k! (WB4NFS). Looking for VE8 is giving me ulcers (N4CT). This was my first Clean Sweep in three years! It's nice to hear the last multiplier thank you for your section (K5SL). 10 meters always opens up during SS. I wonder why? (W4RTE). One of these days I'm going to Sweep with QRP (AB5OU). I hope 10 meters comes back soon (K7UP). There was a lot of activity this year (NA5Q). This is always the toughest challenge of the contesting year! (K5GN). this was my first all-CW contest since the 1984 NR. The things one will do to earn the SS pin! (W6HT). I wouldn't want to arm wrestle the guy who gave me his QSO number 300 using a straight key! (KS1G). I can understand missing MAR and VI, but what happened to ND? (W6KTF). It was my first serious contest. The band was packed and I had tons of fun. I think I'm hooked on this CW contest thing now (KE6JRR). I'm 14 years old and this was my first SS. I finally worked Delaware for my CW WAS (AC6NS). I got into a spaced-out, trance-like mode while running, where sounds in the headphones become keystrokes with

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.

Category	Winner	Donor	Category	Winner	Donor
Overall			Northwestern Division		
QRP CW Low Power CW	K2ZJ KRØY	ARRL ARRL	QRP CW Low Power CW	K2PO/7 W7ZRC	Ken Kopp, KØPP
High Power CW	W5WMU (N6TR,op)	WN4KKN and WØUA	High Power CW	W2VJN	Dennis Motschenbacher, KZ5M
Multioperator CW	AA5B	ARRL	Multioperator CW	KL7Y	Steve Morris, K7LXC and Up The
QRP Phone Low Power Phone	WBØGAZ VE4GV	ARRL ARRL	QRP Phone	K2PO/7	Tower
High Power Phone	N5RZ	ARRL	Low Power Phone	K7FR	
Multioperator Phone	K9RS	ARRL	High Power Phone Multioperator Phone	N7ML K7IR	
Atlantic Division		Daniel Daniel AAOLI	Pacific Division	K/III	
QRP CW Low Power CW	K3TM N2MM	Randy Rand, AA2U	QRP CW	W6JTI	
High Power CW	KF3P	North Coast Contesters	Low Power CW	AI6V/KH6	Robert A. Wilson, N6TV
Multioperator CW QRP Phone	W3GH WT3W		High Power CW Multioperator CW	KI3V/7 N6ZS	
Low Power Phone	WW3V		QRP Phone	WB6ITM	
High Power Phone	KF3P W3GH	North Coast Contesters Mark Sickmeyer, KB3GJ, Memorial	Low Power Phone High Power Phone	N6NF KI3V/7	Jim Hollenback, WA6SDM
Multioperator Phone	Wodii	Walk dickineyor, Robado, Welliama	Multioperator Phone	N6NB	
Central Division QRP CW	N9NE		Roanoke Division		
Low Power CW	KO9Y	Society of Midwest Contesters	QRP CW	KD8G	Raleigh Amateur Radio Society
High Power CW Multioperator CW	KS9K (NØBSH,op) KS9W		Low Power CW High Power CW	N4ZR KT3Y	
QRP Phone	KF9PL (at NO9Z)		Multioperator CW	NJ4F	Raleigh Amateur Radio Society
Low Power Phone High Power Phone	W9UP (NØBSH,op) WE9V (at KS9K)	Society of Midwest Contesters	QRP Phone Low Power Phone	WF4U WA4ZXA	Jim Stevens, KI4HN
Multioperator Phone	N9QX		High Power Phone	W4MYA	
Dakota Division			Multioperator Phone	WB8BMV	Shenandoah Valley ARC
QRP CW	KEØZ	Tod Olson, KØTO	Rocky Mountain Divisi		
Low Power CW High Power CW	NØAT WØSD (WDØT,op)	Twin City FM Club Minnesota Wireless Assn, WØAA	QRP CW Low Power CW	KØFRP KØEU	
Multioperator CW	KEØA	Minnesota Wireless Assn, WØAA	High Power CW	KØRF	(M.D. M N744
QRP Phone	AAØOB NØAT	Tod Olson, KØTO Twin City FM Club	Multioperator CW QRP Phone	K7UP KØFRP	In Memeory of M.R. Neary, N7AA
Low Power Phone High Power Phone	WØSD (WDØT,op)	Minnesota Wireless Assn, WØAA	Low Power Phone	W2CRS	
Multioperator Phone	KØDD	Minnesota Wireless Assn, WØAA	High Power Phone	N2IC/Ø K7UP	In Memeory of M. R. Neary, N7AA
Delta Division		Dat Carrier WEWAII	Multioperator Phone Southeastern Division		III Metheory of M. H. Houry, H. Tu
QRP CW Low Power CW	KI4UZ N4ZZ	Pat Sonnier, W5WMU	QRP CW	KB4GID	
High Power CW	WR3O		Low Power CW	KP4VA (KP4TK,op)	
Multioperator CW QRP Phone	K5MC AC4HF		High Power CW Multioperator CW	K1ZX N4EEB	
Low Power Phone	KB5WWA	Pat Sonnier, W5WMU	QRP Phone	KN4QS	
High Power Phone Multioperator Phone	W5WMU (KZ5D,op) N4ZZ		Low Power Phone High Power Phone	KP2/KE2VB WZ4F	
Great Lakes Division	1172.2		Multioperator Phone	AB4RU	
QRP CW	WA8RJF	Bili Maxson, N4AR	Southwestern Division	1	
Low Power CW	K8BL	Mad River Radio Club North Coast Contesters	QRP CW Low Power CW	N7IR K7OX	Larry Serra, N6AZE
High Power CW Multioperator CW	K8AZ (K8NZ,op) AA8U	David Smith, ND4Y	High Power CW	K6LL	,
QRP Phone	KO4BI	Mad Diver Badio Club	Multioperator CW	N6VR	Warren Hill, KF7AY Ray Day, N6HE
Low Power Phone High Power Phone	AA8AV K8CC (WD8IJP,op)	Mad River Radio Club North Coast Contesters	QRP Phone Low Power Phone	W6CN N6HC	Hay Day, NOTE
Multioperator Phone	KW8N		High Power Phone	K6LL	
Hudson Division			Multioperator Phone	W6EEN	
QRP CW Low Power CW	N2JJ WA2SRQ		West Gulf Division QRP CW	WV5S	
High Power CW	N2NT (KZ2S,op)		Low Power CW	AD5Q	D. Craig Boyer, AH9B
Multioperator CW QRP Phone	WA2UKP WE2H	Stuart Silverstein, K3UEI, Memorial QRP Club of New England	High Power CW Multioperator CW	N5RZ (K5GA,op) W5PAA	Oklahoma Comm Center
Low Power Phone	K8XFI	Troy ARA	QRP Phone	N5NMY	
High Power Phone	WB2K KY2J	John Hults, KF2BH Hudson Valley Contesters and	Low Power Phone High Power Phone	NASS (KE5CV,op) AASBL	D. Craig Boyer, AH9B
Multioperator Phone	N120	DXers	Multioperator Phone	K5MR	Oklahoma DX Assn
Midwest Division			Canada		
QRP_CW	WAØRPI		QRP CW	VE6BMX	Don Haney, KA1T
Low Power CW High Power CW	KFØH NCØP (AG9A,op)		Low Power CW High Power CW	VE5SF VE7NTT	River City Contesters
Multioperator CW	KMØL.		Multioperator CW	VE6AO	
QRP Phone Low Power Phone	NØEID WAØX		QRP Phone Low Power Phone	VE6SH VE4GV	
High Power Phone	KØDEQ		High Power Phone	VE5AG	D. Craig Boyer, AH9B
Multioperator Phone	NXØI		Multioperator Phone	VG6JY	
New England Division QRP CW	W1MJ				
Low Power CW	KC1F	Brian Szewczyk, NJ1F			
High Power CW Multioperator CW	K5ZD KY1H	Michael Perry, WM1K Jon Neary, W1UA			
QRP Phone	KB2R (at K1VR)	Michael Perry, WM1K			
Low Power Phone High Power Phone	KZ1M WB1GQR (WB2JSJ,op)	Ed Parsons, K1TR			
High Power Phone Multioperator Phone	WB1GQH (WB2JSJ,op) KY1H	Jon Neary, W1UA			

no conscious effort (AB6YL). Those ops with over 1000 QSOs must be animals, I don't know how they do it (K8PFY). 80 meters was a struggle with 100 W; I could hear many East Coast stations that could not hear me (NX7K). I didn't hear a peep out of Maine! Someone needs to send an SSpedition to Portland! (KX7L). It was great to hear 15 meters loaded with signals (W6JL). Propagation was really long (NC7O). I'm a 12-year-old Extra, and this is my favorite contest (KG8PE). I thought I'd never earn the pin, but Sunday morning I made it. It was a great experience for me—I'm only 14 (KB8UKP). It was my first

contest ever, and I picked up 10 new states (AA8IC). This was the first time I've tried two radios, it was neat! (K8DD). I tried a new rig out, only to find out all of its glitches (K8OUA). 80 meters was in great shape here (WT8P). Half of my contacts were with slow speed ops, and it was great to hear them (N8UDO). I contacted several states I had never worked before, and all on the real radio mode—CW (N8CPA). It was good to work over 100 stations in just a few hours for a pin (KE9EX). QRP continues to fascinate and amaze me (NJ9C). I wish I had spent more time in SS (WD9IAB). Instead of shooting

ducks, I bagged QSOs for my best finish ever (WAØRPI). This was my first time operating high power for many years (WØSD). This year, I more than doubled my score, and the pin is a nice way to celebrate (VA3DA). Thank goodness for filters (VE4GV). I thought this was the year for my first Sweep—but where was PQ? (VE3ZTH).

Phone

This is the first contest I ever participated in on my own. I had a great time (N2BQA). There was more VE8/VY1 activity than ever. It's still special to work

every one of them (W1WEF). It's amazing what you can do with just wire antennas (KQ2M). What a difference from CW! This time, I worked three VI stations (K8JLF). It was a great learning experience. Next time, I'll go beyond the 100 contacts for the pin (N1OEF). How lucky we were to have two YU/NWT stations this time around (W1OP). I learned that with a smaller station, the popular band is not the best with QRP. It's amazing what 5 W to a good antenna can do! (WE2H). It would have been a better contest if I hadn't had a sinus infection (N2GQS). I didn't spend a lot of time in the Phone Sweepstakes, but still enjoyed giving our club some contacts (N2LSK). 80 meters was my best band, with lots of good signals to work and the noise level low enough to make contacts (N2MZH). It was great fun working a Sweep by Sunday morning (N2KJM). I missed ME and MAR-how humiliating! (AE2T). It's tough enough to work low power, but when your antennas don't work, it can be the pits (N4MO). I'm really beginning to feel like an old-timer; I worked very found to the state of th few checks lower than my 47 (W3NTO). This is my best score in SS so far (WX3H). I learned the 80meter dipole easily outperforms the ground-mounted vertical (K3YDX). This was my first Sweep in 24 years! (ND3F). After 28 years, my first Sweep in 24 years! (ND3F). After 28 years, my first Sweep ever! What a feeling! (WA3HAE). My first SS was 40 years ago. It's hard to believe I haven't grown any older (W9XR). I got the Sweep early, but stuck in there to hand out SC. I had a ball! (W8CNL). This was my first SS ever. It took just over 21 hours of casual tuning and calling to make a Clean Sweep (KK4FB). I could only get about 35 W out on 80, which made contacts hard to come by (AA4LR). didn't get any points for it (AE5V). We had some great pileups Sunday afternoon (KB5RQL). This was my first serious low-power effort from my home station (NA5Q). This was my first contest, and I am hooked forever! (N5MTS). Working the Sweep with QRP was exciting! (N5NMY). I finally worked enough stations for the pin, and am only one state away from WAS (KK5CA). The Sweep seemed easy to get this year. It was tough to find clear frequencies on 20. 10 was open for a while, but few knew it (KC6X). This was my best SS so far. I could have used some 10-meter QSOs, though (KJ6HO). Let's burn Murphy at the stake! I'm sick of him (K6HRT). (AB6YL). It was great watching the timid kids become aggressive pileup handlers after a few hours experience (KC7KFF). Conditions at night were grueling (K7MM). It was a super-duper SS! (AA7BG). I need much bigger antennas. This is the best I've ever done on 80 (NC7K). This year was mostly practice and learning, next year I'm going to try a lot harder (KC7BNH). What happened to SFL? I never expected to miss that one! (AAØCY). This

Collegiate Championship

The 1995 Collegiate Championship once again was held during the ARRL November Sweepstakes. This year's event saw two new champions take top billing, with the University of Puerto Rico's KP4VA taking the CW and combined categories, while the University of Arkansas's W5YM took the Phone category.

School participation was up slightly from last year. Get your school involved in the ham radio version of the National Championship. For more information, contact Robert Barron, PO Box 180703, Austin, TX 78718.

0000

Continue

Score

Гор	CW	Scores
o - 11		0-61

Call	School	USUS	Sections	Score
KP4VA	Univ. of Puerto Rico	1168	75	175,200
W8EDU	Case Western Reserve	844	77	129,976
WO9S	Univ. of Chicago	751	76	114,152
W4ATC	North Carolina State	525	74	77,700
K8EEH	Henry Ford Comm. College	307	70	42,980

Top Phone Scores

Call	School	QSOs	Section	Score
W5YM	Univ. of Arkansas	1395	77	214,830
W6UE	Cal Tech	1307	77	201,278
VE2CUA	Concordia Univ.	1278	77	196,812
KP4VA	Univ. of Puerto Rico	946	76	143,792
W6BHZ	California Poly	813	77	125,202

Ton Combined Scores

School	CW	Phone	Total
Univ. of Puerto Rico	1000	669	1669
Univ. of Chicago	605	569	1174
Case Western Reserve	689	157	846
North Carolina State	412	250	662
California Poly	6	582	588
	School Univ. of Puerto Rico Univ. of Chicago Case Western Reserve North Carolina State	SchoolCWUniv. of Puerto Rico1000Univ. of Chicago605Case Western Reserve689North Carolina State412	School CW Phone Univ. of Puerto Rico 1000 669 Univ. of Chicago 605 569 Case Western Reserve 689 157 North Carolina State 412 250

Other schools participating included Stanford University, W6YX; Henry Ford Community College, K8EEH; Baylor University, KC5OJY, University of Texas, W5EHM; Yale University, W1YU; University of British Columbia, VE7UBC; University of South Florida, KE4ZYV; Ohio University, W8PZS; and Carl Hayden Community High School, KC7KFF.

was a lot of fun, for my first contest (KI7ST). It was murder on 40 meters (N7LOX). This was a "lab in our Contest College program. We managed a Clean Sweep and turned out some motivated students (W7FR). Thanks to everyone who strained their ears to hear me (WC7S). This contest has become very contagious to me (AA8AV). I just hope that next year I remember that I can't turn an inverted V with my Yagi rotator (KG8PE). I wish we didn't have to wait another year to do it all over again. East Coast stations on 80 sounded like Russians over the pole on 10 used to sound (AA8U). I had 76 sections going into the final hour and was discouraged, when suddenly signals improved and I nabbed PAC for the

Sweep! (WD8NWL). For the casual contester, the pin is a great deal (WA8AHK). Sometimes I couldn't even remember what my phonetics were (N9PBM). I can't believe I had almost 1000 QSOs on 80! (WE9V). 15 meters sounded like it had a 20-dB attenuator in the ionosphere (WBØGAZ). I was anticipating a nail-biting battle for the Sweep, but it seemed like most of the tough sections were out in droves (K\(\theta\)BJ). I'm glad I stayed home and missed goose hunting this year (W\(\theta\)CEM). I miss the 10-meter Novices so much! I came within 50 QSOs of my personal best—at a time when propagation is supposed to be terrible (VE4GV). It was tough to squeeze in among the bigger signals (VE7NF).

Scores

CW scores are listed first, followed by phone. Within each Section, scores are listed in descending 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, M = Multioperator). **Bold** denotes Division leaders. NO1J (+net) 47,952 333 72 11 A

		· ·		
CW 1	W1NRG (K1s TG, VDF, KE1AV, N1s HMX, JEO, KGY, QDA, RMA, W1s FD, KKF, WA1TRY ons)	NO1J (+net) 47,952 333 72 11 A K1VV (+net) 15,386 157 49 4 B	W1WFZ 22,538 191 59 10 A K1DS 13,200 132 50 3 A W1RFQ 12,688 122 52 6 A	N2JOH 64,800 450 72 19 A WB2LBF 51,948 351 74 24 A
CW 1 Connecticut KH6CP/1 70,290 495 71 24 Q W10K 42,240 320 66 10 Q NM1K 25,856 202 64 24 Q N1CJB 23,600 200 59 23 Q AA1JM 23,180 190 61 24 Q NM1Q 19,276 158 61 11 Q KM1CCH 102,256 664 77 20 A W10D 100,344 678 74 18 A W1FCH 03,244 608 74 8 A K1KAV 46,900 335 70 21 A K1KAV 46,900 335 70 21 A K1TO 24,000 200 69 10 A K1TQ 41,348 322 67 8 A WATLJP 43,030 331 65 17 A WATCBW 31,500 250 63 15 A K1TG 17,552 149 59 7 A KA1TOM 17,384 164 53 14 A AB1U 10,340 110 47 3 A KN1CO 200,488 1319 76 24 B	JEC.KĠY, QDA, RMA, W1s FD, KKF, WA1TRY, Ops) 916,300 595 77 24 8 WS1F (+KA1WVG) N1OPZ (+hel) 9,240 84 55 11 B N1NQD (+hel) 180 10 9 8 B Eastern Massachusetts K1CGJ 73,704 488 72 4 Q W1MK 41,382 363 57 24 Q K1JKS 127,224 837 76 24 A K1VUT 125,504 846 72 42 A K1VUT 125,504 846 72 42 A W11O 124,468 641 74 24 A WT1O 124,468 641 74 24 A KSLLF 116,476 787 75 21 A WA1CLJ 78,705 610 76 20 A AA1HB 73,950 493 75 21 A W1KEE 68,544 76 72 22 A W21K 67,104 466 72 23 A WA1OLV 83,312 392 68 19 A K1XM 32,000 250 54 6 A W1ZNY 26,764 216 52 17 A KA1CLV 24,300 225 54 17 A KA1CLV 24,300 225 54 17 A KSSH 22,082 181 61 5 A WB1DF1 21,900 150 73 24 A WA1TCH 18,032 616 55 6 A WB1DF1 18,032 616 55 6 1 A KISEC 17,600 160 55 61 A WB1ELA 11,960 170 44 8 A W1ASI		K1DS 13,200 132 50 3 A	NZLOH MB2LBF 51,948 351 72 19 A WB2LBF 51,948 351 72 42 A WB2FOB 51,948 302 66 24 A WZLG 39,864 302 66 24 A WZLG 39,864 302 66 24 A WZLG 32,760 252 55 9 A WDZK 27,458 208 66 18 A NZLRB 19,548 181 54 17 A NZYXC 17,914 169 53 21 A NZYXC 17,914 169 53 21 A WB2CFP 14,900 149 50 6 A KZGRI 13,520 130 52 8 A KB2SCZ 13,46 129 52 20 A WBZTCV 12,688 129 52 20 A WBZTCV 12,688 129 52 20 A KZZK 14,620 14
W1WEF 187,572 1218 77 24 B	KT2E 11,400 100 57 2 A N1DS 8,536 97 44 24 A	Rhode Island	KY1H (+KB1W,WM1K)	WA2UKP (+AA2s DY,GS,K2JSC, N2NFG,WA2JQK)
K1ZZ 181,874 1181 77 24 B KQ2M 123,000 820 75 16 B NQ1K 72,420 510 71 24 B	K1MC 3,762 57 33 5 A K1UCA 1.012 23 22 3 A	WA1HYN 27,300 210 65 7 Q W5TEH 25,870 199 65 10 Q	180,334 1171 77 24 B	127,512 828 77 24 B NY2U (+net) 40,040 286 70 16 A K2POF (+net) 17,408 136 64 9 A
N4XR 36,494 257 71 24 B N2LTK 21,838 179 61 14 B	W1XS 87,164 566 77 17 B WA1G 77,552 524 74 11 B	KM1X 120,150 801 75 24 A K1MD 64,192 472 68 23 A	Eastern New York	KB2USV (+KZ5P) 11,544 111 52 8 A
W1YU (WI2E,op) 14,976 144 52 3 B	KA1IOR 53,108 374 71 12 B	K1VSJ 60,192 418 72 16 A	N2JJ 30,418 227 67 17 Q	N2QIP (+N2s PEN,POS) 10.584 108 49 11 B
	WR1P 41,752 307 68 9 B WA3TXR 38,860 290 67 17 B	KC1CU 35,772 271 66 14 A K3IU 26,928 204 66 10 A	WA2STM 113,250 755 75 22 A K2UF 94,128 636 74 23 A	WB2RHQ (+WA2PBB) 9,328 106 44 9 A

KB2SIX (+op) 188 12 7 2 A Northern New Jersey KB2JE 20,374 167 61 10 Q N2MNN 13,624 131 52 17 Q WA2ASQ 11,592 126 46 10 Q AA2U 11,270 115 49 3 Q WA2SRQ 157,776 1038 76 24 A KSKG 118,950 793 75 24 A W2HCA 57,378 393 73 15 A KB2CWO 39,864 302 66 15 A K2TWK 34,840 280 67 15 A	WF2A,WS2U,ops) W2SEX (AA2s OT,VN, VW,K2ZR,ops) W3SEX (AA2s OT,VN, VW,K2ZR,ops) 54,588 401 68 14 A WN8Z (+AA2s H,OF,N25 MRE,VZC, WTC,WA2ISC) KV2W (+N25 HCQ,UEB,WA2RZG) 9,912 118 42 17 A 3	AA3GM 3,740 55 34 5 Q KB3BFQ/N 1,406 37 19 5 Q N3IXR 115,654 751 77 24 A WA3HAE 113,960 770 74 24 A N3BQV 90,958 623 73 24 A KB3AFT 68,680 505 68 24 A W3TWI 33,528 254 66 24 A WW3S 24,616 181 68 24 A N3DQU 24,426 207 59 18 A N3DQU 54,426 207 59 18 A N3QQS 12,250 125 49 10 A NI3I 10,914 107 51 16 A NB4J 10,250 125 41 6 A	AB6I/4 11.554 109 53 3 A KD4UIE 10.914 107 51 11 A KD4FAZ 1.472 32 23 4 A AE4FY 1.386 33 21 24 A WC4E 196.364 1292 76 24 B N4EEB (+K2DXV) 158,550 1057 75 24 A Puerto Rico KP4DDB 1,850 37 25 2 Q	WB4EEA (+net) 11,750 125 47 15 Q AD4TU (+net) 2,790 45 31 4 A 5 Arkensas WØLK 28,644 217 66 11 Q N8VV 149,416 983 76 24 A KM5G 148,856 978 76 24 A NOSW 58,362 411 71 18 A KJSWX 35,510 265 67 21 A
W21 PO 34,178 267 64 13 A KB2POP 33,600 300 56 11 A WA2JHN 24,780 210 59 17 A WF2Z 23,182 173 67 13 A N2TFM 18,600 155 60 9 A N2FHC 13,120 160 41 14 A KA2ANF 7,268 79 46 24 A W2VQ 5,712 84 34 5 A KB2SGM 2,842 49 29 16 A	Ny3C 24,012 207 58 11 Q NBNA 97,828 661 74 24 A WW3V 89,320 580 77 20 A KS3F 101,178 657 77 20 B Eastern Pennsylvania WASNNA 33,264 252 56 16 Q	N3PWB 8,712 99 44 9 A KB3KD 6,766 87 39 8 A KB3AZK 4,368 78 28 13 A KB3AZK 4,368 78 28 13 A KB3HA 160 10 8 1 A K3UA 57,084 426 67 5 B W3YQ 54,128 398 68 6 B K3MD 43,680 312 70 8 B	KP4VA (KP4TK.op) 175,200 1168 75 24 A WP4MYD/T 476 17 14 15 A WP4LNY/T 60 6 5 24 A South Carolina W4VGL 48,240 335 72 10 A KS4DU 46,860 330 71 22 A KC4UH 19,376 173 55 8 A WBCNL 17,820 135 65 24 A C 4 17,820 135 65 24 A C 155 65 24 A C 155 65 24 A C 155 65 24 A C C C C C C C C C	K5JH 20,178 171 89 15 A ACSBR 15,950 145 55 7 A ABSSE 9,990 111 45 24 A KBSWWA 90,000 625 72 15 B WSKL 20,070 195 53 4 B Louisiana KSSL 147,840 960 77 24 A
N2NYR 918 27 17 4 A W2QR 880 27 14 10 A WA2YBI 588 21 14 10 A N2NT (KZ2S,op) 210,520 1385 76 24 B W2RQ 147,898 1013 73 17 B K2TW 32,472 246 66 3 B	WASYON 27,084 222 61 14 Q KW3U 11,016 108 51 11 Q WE3C 7,920 120 33 4 Q N3MHW 418 19 11 24 Q KC3M 102,564 666 77 24 A NK5II 90,280 610 74 20 A KSMQH 87,408 607 72 16 A	W3HDH 36.314 271 67 6 B WR3D 18.582 163 57 5 B WR3G 8.400 100 42 2 B K3LR 8.372 91 46 1 B W3GH (+W9XR) 211,596 1374 77 24 B	W8CNL 17,820 135 66 24 A KD6TAX 8,692 106 41 24 A W4BTZ 124,764 843 74 22 B W4YDD 92,250 615 75 21 B Southern Florida AC10/4 135,384 996 77 24 A WD4AHZ 112,332 759 74 24 A	XZ5D 67,044 453 74 10 A NZ5D 39,520 304 65 14 A NZ5D 39,520 304 65 14 A NZ5C 39,520 304 65 14 A NZ5C 34,188 222 77 21 A NZ5C 34,188 222 77 21 A NZ5C 34,188 222 77 21 A NZ5C 34,188 24 25 25 25 25 25 25 25
W2GD 25,600 200 64 2 B W1GD 25,564 166 77 8 B WA2UDT 21,576 186 58 7 B N2KJM (+net) 53,712 373 72 12 A N2BIM (+net) 37,872 263 72 14 A N3SK (+net) 32,234 227 71 8 A	WY3A 82,350 549 75 18 A WA3KWU 51,982 449 69 17 A K3KW 57,600 400 72 17 A N2EY 54,812 386 71 13 A WB3AAL 37,000 250 74 18 A W3AP 36,600 300 61 6 A N3FOG 34,506 243 71 13 A W8FJ 34,020 270 53 24 A	4 Alabama KN4OS 17,784 156 57 12 Q WD4MPS 11,808 123 48 7 Q N4YOS 123,300 822 75 24 A K4JYO 66,172 466 71 17 A	K7UPJ 78,000 520 75 23 A WB4BBH 32,294 241 67 13 A WV5Z 30,680 236 65 7 A WB90EP 22,936 188 61 9 A AD4VH 22,880 176 65 24 A KN4JN 12,168 117 52 12 A W1UA 11,074 113 49 7 A WP2SW44 11,000 110 50 12 A	W5WMU (N6TR,op) 238,094 1546 77 18 B N8RR 120,768 816 74 13 B AASZT 11,000 110 50 5 B K5MC (+AE5V,NSMY,MASSXU) 117,988 808 73 24 B
WA2WYR (+net) 2,032 192 73 24 B K2WK (+net) 2,640 55 24 24 B NYC-Long Island K2SHL 101,536 668 76 24 A N2LSK 56,414 421 67 15 A W2KTF 25,830 205 63 8 A	W3EFY 29,748 222 57 16 A N3TRO 25,508 222 57 24 A AA3FY 24,766 203 61 13 A NU3Z 23,400 195 60 10 A KE3MX 22,880 220 52 24 A WB3LNZ 16,640 151 55 13 A AA3JV 16,640 151 55 13 A AG3G 13,104 117 56 12 A	WG4F 44,460 342 65 11 A K2RUE 34,440 287 60 16 A N4OB 18,000 150 60 6 A KE4AGT 9,288 108 43 12 A KT4DN 72 6 6 6 A W4NTI 76,456 503 76 24 B KB4FAI 61,950 413 75 21 B	N4PUZ 11,000 110 50 24 M 30HN 2,016 48 21 6 A K1ZK 218,424 1437 76 24 B N4BP 200,640 1320 76 24 B Tennessee KIAUZ 85,994 589 73 24 Q	Mississippi N5ODV 6,480 81 40 12 Q W5XX 165,450 1103 75 24 A WOSL 91,316 617 74 18 A N5XA 21,080 170 62 8 A KBSIXI 9,588 102 47 5 A KBSHPM 4,760 70 34 20 A
WAZMAV 20,160 180 56 10 A AL7HW2 19,950 175 57 12 A WA2PUI 15,700 157 50 12 A K2HVN 14,994 119 63 4 A KB2QLK 8,768 137 32 13 A N2YIB 1,364 31 22 15 A K2AU 117,238 803 73 22 B	N3GUK 12,720 120 53 18 A W3SSS 11,536 103 56 14 A N3PTN 10,120 110 46 10 A AA3JZ 10,000 100 50 7 A W3SD 9,720 108 45 4 A WB3FAA 6,072 66 46 5 A N3CZB 3,422 59 29 13 A W8IJ 50 5 5 1 A	KC4ZV 45.694 341 67 6 8 W3IMB 18,084 137 66 10 8 Georgia KB4GID 79,650 531 75 24 Q KE2WB 18,980 146 65 13 Q W4QO 600 20 15 24 Q	KV4B 12,880 115 56 9 Q N4ZZ 168,830 1095 77 24 A W9WI 137,250 915 75 24 A N44R 114,800 764 75 16 A N4IR 108,000 720 75 20 A KO4EW 105,080 710 74 24 A WA6KUI 95,184 661 72 18 A	New Mexico ABSOU 16,500 150 55 24 Q KBSUL 112,050 747 75 23 A KT5X 47,872 352 68 6 A NØEHF 43,168 304 71 22 A KASBAT 16,728 164 5117 A
K2QMF (+net) 86,240 560 77 16 A WO2N (+net) 10,246 109 47 8 A Southern New Jersey KA2GSL 33,864 249 68 16 Q N2MM 127,500 850 75 24 A W2ESX 72,144 501 72 22 A	WÄJENQ 8 2 2 10 A AA3B 155,700 1038 75 24 B K3TEJ 150,920 980 77 24 B WF3T 141,488 956 74 23 B AA3JD 51,534 409 53 21 B WM3B 12,740 130 48 24 B WT3H 7,412 109 34 4 B	KM9P (K7GM,op) 164,768 1084 76 24 A K4BAI 133,650 891 75 24 A N8LM/4 88,160 580 76 21 A K40GG 73,350 489 75 23 A AAAGA 56,520 418 70 24 A KW4E 46,800 350 67 12 A W81CTE 38,920 278 70 18 A W87RG 31,812 241 66 24 A	N4DW 92,400 600 77 20 A KS4BG 31,152 236 66 21 A KC8M4 26,634 193 69 17 A AB4CA 19,494 171 57 9 A W4HZD 17,700 150 59 13 A W4TYU 15,344 137 56 9 A W4US 7,929 110 35 7 A KSJA 5,660 75 39 4 A KE4OAR 4,160 65 32 14 A	N5CU 15,336 142 54 15 A NO5I 11,448 108 53 6 A KB5HRS 9,152 104 44 13 A WSJOV 11,880 110 54 3 B AA5B (+K5TA,K9RS) 237,160 1540 77 24 B
W5KI 69,560 470 74 19 A K2ZA 31,496 254 62 20 A NZRF 26,230 215 61 24 A K2SB 15,694 133 59 5 A K2ZI 11,342 107 53 5 A AEZN 9,324 111 42 24 A N2NQG 8,888 101 44 24 A KA2BEO 8,858 103 43 14 A	K3WW (+net) 120,120 780 77 22 8 W3OV (+net) 120,000 800 75 20 A NB3I (+N3BNA) 115,606 752 77 24 B W3MUM (K43OGL N3s BUE,NED,	N4XQN 17,582 148 59 10 A K2HT 16,002 127 63 13 A KC4TEK 14,680 113 65 20 A AC4PO 9,600 100 49 24 A WB4AOL 9,500 125 36 11 A W4SAS 504 16 14 2 A KY2P 148,482 1017 73 24 B	KE4OAR 4.100 65 32 14 A W4AGG 4,080 60 34 3 A W4AY (WAAZZUOS) 2,880 45 32 4 A AQ4F 2,728 44 31 5 A W3DYA 1,544 48 14 1 A WR3O 139,680 919 76 18 B K4LTA 81,620 530 77 15 B	K7UP (+KN5H) 217,140 1410 77 24 B North Texas K5LP 35,640 270 66 16 Q K5FO 21,420 170 63 18 Q KBSKYO 21,420 170 63 18 Q KRØY 204,974 1331 77 24 A
KBERAR 5,600 100 28 15 A N2YPN 1,380 30 23 4 A W2ORA 242 11 11 4 A WB2CVJ 96 8 6 2 A KB2THF 24 4 3 2 A KF2YX 18 3 3 3 A	WN3N,ops) 30,492 231 86 13 Q N3KFN (+net) 27,566 179 77 24 A KU3K (+net) 26,624 256 52 8 B KM3D (+KE3FC) 24,960 208 60 18 A N3IMF (+net) 12,932 122 53 12 A K3ATO (+net) 12,932 122 53 12 A	Kentucky NATY 146,550 977 75 24 A NAQS 74,022 507 73 14 A KD4LHA 49,664 388 64 18 A K4FU 47,360 320 74 13 A WB4FOT 45,384 366 62 24 A KF8VS 25,048 202 82 11 A	KØEJ 40,800 340,60 60 6 B K4AMC 34,452 261 66 5 B N4CT 33,110 215 77 12 B N4TG (+net) 35,700 255 70 9 A Virgin Islands KP2N 27,500 250 55 11 A	WØUO 140,448 912 77 24 A WD5K 129,360 840 77 23 A NN5T 16,476 787 74 23 A KMBI 63,140 451 70 13 A KC\$COJY (KC5ALW,op) 51,840 360 72 17 A WK5K 26,668 226 59 21 A WA5MUF 24,822 197 63 15 A
AA2HR (+N2PNB) 19,136 208 46 24 A KS2B (+net) 15,694 133 59 24 A Western New York K2ZJ 123,880 815 76 24 Q WØVU 35,604 258 69 11 Q N2TPA 15,768 146 54 20 Q	Maryland-DC K3TM 94,424 638 74 24 Q 24 Q 24 Q 24 Q 24 Q 25 Q 26 Q 27 Q 2	ALT/L/4 18,880 160 59 8 A KM4FO 17,384 164 53 11 A KT4DQ 10,816 104 52 7 A WA4KDO 10,812 106 51 9 A AE4GH 9,030 105 43 16 A KI4DC 8,200 100 41 5 A KO4BI 792 22 18 24 A WM4T (KU8E,op)	Virginia W4PRO 64,800 450 72 20 Q WF4U 34,648 284 61 17 Q G K4GEL 22,860 220 52 12 Q N3DAN 8,824 109 38 8 Q Q W2HD 532 19 14 1 Q 1 Q W4YE 114,150 761 75 19 A A	W5DLM 22,568 182 62 9 A KB5RXL 16,100 161 50 10 A KJ5VL 8,904 106 42 15 A KB5KTY 7,998 93 43 8 A W3DYA 4,408 58 38 3 A W3DYA 212,212 1378 77 24 B K5RX 198,208 1304 76 24 B
WZ2T 9,728 128 38 11 Q KE2DI 1,232 28 22 5 Q NZJNZ/T 224 14 8 10 Q WA2LCC 101,376 704 72 23 A WF2L 63,656 436 73 11 A AE2T 62,012 419 74 13 A WA2ABN 54,362 353 77 24 A	K1HTV 124,800 832 75 24 A AA3HM 100,350 669 75 23 A K3DI (WD4IEH,op) NG3K 65,554 449 73 17 A W3AZ 58,464 406 72 16 A W3ENZ 58,6304 414 68 21 A W3CPB 40,120 295 68 15 A	MAY (ROBEL) 97,718 1167 77 24 B 178,718 1167 77 24 B NAXM 168,112 1106 76 24 B ABARX 87,454 599 73 12 B KC4WQ (+KA4TEU, KE4AJA, KO4KU) 71,484 483 74 24 A North Carolina	W4YE 114,150 761 75 19 A K4BAM 100,200 668 75 23 A KG4W 97,636 634 77 20 A WB4RNJ 91 218 661 69 24 A N3OS 80,784 561 72 22 A WD4MUR 68,248 449 76 22 A W3GOI 54,864 381 72 24 A K4FPF 49,434 321 77 15 A N4JEO 48,138 339 71 4 A	KS1G 192,584 1267 76 23 B NA5O 181,258 1177 77 24 B WB5B 131,424 888 74 19 B W5GN 101,384 667 76 22 B AA5UO 72,534 471 77 24 B W5XJ (+N4YGP) 77,526 531 73 22 A
WA2EYA 51,612 374 69 17 A WN2R 44,032 344 64 20 A KM2L 41,400 300 69 10 A W2IMO 40,066 299 67 13 A WA2RZJ 38,500 275 70 24 A WF2V 37,940 271 70 14 A NM2J 33,258 241 69 18 A NA2Q 31,070 239 65 9 A	W31UT 31,824 234 68 13 A W31MZ 28,380 215 66 8 A K3EI 25,600 200 64 6 A W3/G3CZ 25,308 171 74 13 A W3EE 25,216 197 64 11 A WA3RSQ 24,420 185 66 15 A K3YDX 18,468 171 54 9 A WB6VGI 13,688 118 58 9 A	AD4ZE 26,586 211 63 17 Q WR41 23,450 175 67 14 Q WJ9B 124,500 830 75 24 A N4MO 82,800 552 75 21 A AC4ZO 80,550 537 75 18 A KA4IKH 80,208 557 72 23 A K414HN 66,096 459 72 24 A	K4UK 47,742 327 73 16 A AF40 41,890 295 71 17 A N4MM 30,954 201 77 12 A N4LJS 27,900 225 62 12 A K4GMH 26,732 326 41 9 A WD4KXB 26,264 198 67 10 A W4VC 24,662 209 59 9 A WD4ELJ 24,424 172 71 5 A	KISJC (+KISPA, KYSN) 63,656 436 73 24 A Oklahoma WYS 73,584 504 72 71 24 Q WASRES 60,634 427 71 24 Q K5DP 1,920 40 24 3 Q ABSPP 36,600 305 60 13 A
WBZWPM 30,888 234 66 24 A N2WK 25,370 215 59 7 A AA2CS 25,080 209 60 16 A WBZJFP 24,924 201 62 24 A K2DXL 23,424 244 48 11 A WA2BQI 13,720 140 49 14 A N2DM 12,600 180 35 24 A N4TW 7,070 101 35 4	W3ABC 12,376 119 52 7 A AABRT 11,040 115 48 14 A N3HUV 11,008 128 43 19 A KD3O 9,044 119 38 24 A N3MPV 8,190 105 39 14 A N3FZB (K3Dl.op) 7,566 97 39 5 A KD3JK 4,800 75 32 24 A WA2GIE 4,248 59 36 14 A	N4BNO 34,440 287 60 16 A N4G 22,176 176 63 9 A KQ4AV 13,000 130 50 22 A AD4RK 11,648 104 56 15 A K4CAX 960 30 16 1 A AAANC 185,592 1221 76 24 B K4PQL 178,448 1174 76 24 B	WBSGVN 24,190 205 59 24 A WD4JHY 22,400 200 56 5 A WB4ZPF 22,110 185 67 15 A W3FTG 20,130 185 61 6 A KA4RLJ 16,958 139 61 9 A N4UTY 12,750 125 51 7 A N6MW 10,658 73 73 9 A W4SNH 10,656 74 72 20 A	WAGOTU/5 23,712 208 57 4 A KAORNY 21,824 176 62 14 A AASHV 11,172 114 49 12 A KSYAA 162,600 1084 75 24 B W5UDA 135,750 905 75 20 B N5FF 11,880 110 54 24 B
W2TZ 2,000 40 25 24 A KB4VL 1,596 42 19 9 A WA2RBO 200 10 10 1 A AA2XP 6 3 1 24 A W6XR 166.896 1098 76 24 B KW2J 115,440 780 74 22 B K2FU 95,850 699 75 21 B WJ2O 89,790 615 73 15 B	KF3P 187,572 1218 77 24 B KE30 106,350 709 75 13 B KO7V 92,400 600 77 16 B WA3WUD 90,520 620 73 23 B K3TLX 81,082 571 71 16 B N3AM 62,488 428 73 7 B N3II 58,500 390 75 24 B	N4ZC 178,024 1156 77 24 B W1IHN 99,000 660 75 15 B K4RZ 31,360 245 64 10 B WB8BMV (+WB8III) 115,520 760 76 24 B W4ATC (N3QYE,NA4G,KO4PY,ops) 77,700 525 74 24 A W4ZYT (+KC4s VZK,WQO,KE4HTT,	KC4UFN 8.568 126 34 15 A K4FPT 7.820 85 46 10 A AC4XT 6.868 101 34 4 A K3SS 6.396 82 39 10 A AE4EW 5.372 79 34 12 A KN4US 3.128 46 34 14 A AD4DG 1.092 26 21 3 A KE4KFJ/T 832 26 16 9 A	W5PAA (KF1V,WA15,KJØW,ops) 130,060 890 77 24 A South Texas KG5U 60,350 425 71 12 Q AK5E 29,054 199 73 16 Q AD5Q 160,664 1057 76 24 A
WJ2O 89,790 615 73 15 B N2MF 62,928 456 69 10 B KBFC 41,976 318 66 10 B AJ3K 40,704 318 64 8 B W2EZ 40,528 298 68 17 B WB2YQH 32,856 222 74 8 B KB2NU 15,900 150 53 24 B WB2RAJ 11,620 83 70 10 B AA2VN 3,840 64 30 9 B	K3SA 56,800 400 71 7 R N4QQ 33,792 256 66 13 B W3GN 21,594 183 59 5 B W3DAD 21,122 179 59 7 B W3B 18,928 169 56 8 B W3BG 16,240 145 56 2 B W3GG 15,392 148 52 24 B	N4AIG,W8RJL,ops) 77,154 501 77,21 Northern Florida WB8PAF 11,160 124 45 9 KØLUZ 161,120 1060 76 23 A NU4Y 88,800 600 74 15 A	KS4JB 598 23 13 4 A KT3Y 189,300 1262 75 24 B W4MYA 17,6,098 1137 77 23 B WB4NFS 117,968 808 73 24 B W48QF 110,320 788 70 14 B W4XD 86,620 610 71 18 B KC4DY 31,098 213 73 24 B	KZ8E 136,950 913 75 24 A WA5WZA 102,150 681 75 21 A AC5K 101,824 688 74 18 A WA5TOS 76,796 526 73 18 A NJ1V 62,780 430 73 14 A KS5C 53,200 380 70 24 A KSLZO 47,664 331 72 11 A N7XX 43,362 297 73 24 A J4F 36,096 282 64 16 A
KB2UGM (AF2K, K2DB, KF2ZW, N2PEB, NG2P, WA2ROW, ops) 115, 216 758 76 24 B W2OW (AA2s EQ, MU, KA2ZKR, KB2VKR, N2s HR, MSB, XYW, WE2K,	W3HVQ (+net) 59,184 411 72 14 B WD3P (+net) 47,432 308 77 16 A Western Pennsylvania ADB.J 89,836 607 74 24 Q K3WWP 65,888 464 71 24 Q AG3H 62,436 473 66 18 Q	W5HUQ 63,640 430 74 19 A KD4YAR 56,658 399 71 24 A W3GU 55,062 437 63 24 A ACAOC 48,300 350 69 18 A K1SMF 47,002 331 71 20 A N9AG 29,172 221 66 7 A AB4KL 16,500 150 55 20 A K5WTA 13,338 117 57 24 A	NJ4F (+N4GUS,K7SV,K8E) 158,312 1026 77 24 B K4 X (+N4BRA,W4HIE) 72,3440 510 72 23 A K7SV (+net) 32,340 245 66 5 A WA4QDM (+net) 25,344 176 72 19 A	AASLF 34,776 252 69 24 A WCSD 33,000 250 68 8 A WXSI 28,210 217 65 19 A N5XUS 26,928 204 66 16 A WSLK 13,362 131 51 8 A KISIE 151 8 A KISIE 100 51 4 A

KK5CA 3,410 55 31 10 A	N6RA 44,100 315	70 10 A W7QDM	26,460 210 63 5 Q	KG8W 27,600 230 60 9 A	K8CX (+net) 85,316 554 77 13 B
K5SBR 1,554 37 21 3 A	KK6WS 29,380 226 WW6D 28,426 233	65 9 A	164,160 1080 76 24 A	NX8K 24,752 221 56 14 A NBGAQ 21,838 179 61 22 A	NG8D (+net) 81,150 541 75 14 B WA8OSE (+net)
K5GN (at K2UA) 219,912 1428 77 24 B	WA6CTA 130,568 859	K7NHA	98,420 665 74 22 A 1,610 35 23 24 A	N8KSO 19,224 178 54 10 A WQ8T 18,900 150 63 8 A	33,880 220 77 24 B West Virginia
AA5BL 211,584 1392 76 24 B NB6U 179,850 1199 75 24 B	AA6YX 128,128 832 W6BIP 78,110 535	77 24 B	(B7LFO,KI7RO,ops)	KB8LFQ 18,480 154 60 11 A W8ROS 16,588 143 58 14 A	KDBG 112,500 750 75 24 Q
W5ASP 168,872 1111 76 24 B W5NR 11,800 118 50 4 B	W6VV (+AC6GU,KD6s VWD	VDV	57,754 431 67 22 A	KB8HGM 16,468 179 46 16 A AA8PI 15,840 144 55 17 A	K5HD 74,000 500 74 22 Q KV8S 55,008 382 72 17 Q
W5XD 10,094 103 49 3 B	KO6s GD YP N6LAE WB6	YGX,	na 137,240 940 73 24 A	N8HSN 15,300 153 50 22 A W88BUQ 14,976 144 52 6 A	W8JWX 14,300 130 55 8 Q
W5EHM (KA5WSS,op) 3,432 52 33 8 B	DL9NEI) 16,200 150 San Joaquin Valley	AA7YA W7OVJ	15,402 151 51 24 A 112 8 7 3 A	WASFRD 14,112 126 56 14 A N8VEN 13,750 125 55 15 A	N4ZR 139,800 932 75 7 A K8MBH 92,056 622 74 21 A
K5EC (+net) 31,824 234 68 6 B	WB6ITM 1,260 30		98,258 673 73 21 B	N8TDE 13,724 146 47 21 A K8NWD 12,376 119 52 24 A	W8DL 82,288 556 74 16 A K5ME/8 58,940 421 70 22 A
West Texas AB5WB 22,204 182 61 14 Q	W1PH/6 73,408 496 KJ6DL 13,144 124	74 15 A K7ABV	35,200 275 64 7 B	KB8ZYY/T 12,240 136 45 24 A KB8YRB 11,858 121 49 17 A	KG8GW 49,000 350 70 24 A N8II 42,120 324 65 5 A
	N6YMM 10,340 110	47 11 A NEVAC	35,108 262 67 18 A	N8XMS 11,340 126 45 9 A	NBYYS 32,912 242 68 18 A KJ8J 29,388 237 62 24 A
N5NA 53,620 383 70 10 A	N6TNW 680 20	KC7BNH NC7K	33,604 271 62 20 A 2,184 42 26 4 A	N8MK 9,660 105 46 6 A	KEBSX 27,122 191 71 16 A KBUC 24,644 202 61 12 A
N5RZ (K5GA,op) 228,690 1485 77 24 B	N6UR (KR6X,op) 215,600 1400	77 24 B	218,218 1417 77 24 B	KE8QT 9,292 101 46 8 A AA8TC 8,832 96 46 12 A	K3ZNV/8 23,210 211 55 16 A AL7PT 16,470 135 61 10 A
6	WC6H 190,912 1256 N6MU (at N6NB)	AAØCY/7	55,500 370 75 18 B	WB8NMW 6,840 90 38 24 A N8KMZ 6,020 70 43 14 A	W8NR 16,016 143 56 16 A
East Bay	161,546 1049 K6LRN 62,012 419	77 24 B Orego i 74 15 B K7FD	15,660 135 58 4 Q	WD8NFX 5,000 50 50 8 A KB8VVX/N 4,320 72 30 18 A	K3JT 159,852 1038 77 24 B K8KFJ 19,712 176 56 9 B
N6DA 45,360 324 70 14 A WB6ETY 23,010 195 59 17 A	WA6TKV (+net)	AA7QU	10,120 110 46 8 Q	KD8WV 2,976 48 31 12 A KB8LOI 2,346 51 23 19 A	AA8UL (+WA8KAN)
WB6DSV 10,980 122 45 4 A	100,716 654 Santa Barbara	77 24 B AA7KF K7DBV	143,336 943 76 24 A 89,072 586 76 22 A	AA8KR 1,968 41 24 7 A N8UUS 1,628 37 22 24 A	11,628 114 51 14 A
N6RO 196,536 1293 76 24 B W6RGG 130,130 845 77 20 B	KO6KA 21,716 178	61 19 Q AA7CP	80,808 546 74 22 A 73,000 500 73 21 A	KB8SLD 1,596 38 21 8 A K8CPW 750 25 15 5 A	9
W6GPM 33,600 240 70 22 B	N6AZR 16,758 147 WB6JJE 12,402 117		51,680 380 68 22 A 43,680 312 70 18 A	WB8AFO 616 22 14 4 A N8ZFH 546 21 13 9 A	Illinois
KM6OH (+W6BSY) 121,814 791 77 24 B	WA6FGV 76,860 549	70 17 A K8PFY	42,612 318 67 17 A	NBQMD 448 16 14 24 A NBRWK 18 3 3 3 A	K9WA 69,642 477 73 15 Q W9PNE 33,592 247 68 10 Q
Los Angeles	W6TKF 76,220 515 W6BKY 25,600 200	64 14 A KU7K	27,008 211 64 14 A	WBRC 113,734 779 73 12 B	W9LMO 9,870 105 47 17 Q NW9S 9,720 108 45 6 Q
KC6X 141,526 919 77 24 A N6GL 76,350 509 75 24 A	N4TQO 16,872 148 KE6JRR 10,028 109		10,212 111 46 24 A 3,696 56 33 24 A	AC8W 79,344 522 76 16 B KBDD 64,380 435 74 11 B	N4OGW 145,160 955 76 18 A
KG6VI 43,120 308 70 18 A N5BF 29,832 226 66 15 A	WZ9J 13,420 122		850 25 17 1 A	KBCV 47,060 362 65 12 B AABRB 36,096 282 64 14 B	WA9TPQ 135,600 904 75 24 A WX9U 135,128 889 76 24 A
KN6RQ 27,336 201 68 22 A W6VPZ 26,164 211 62 11 A	N6VR (+N4TQO,AC6T,AD60	C,N8SR) W2VJN	192,808 1252 77 24 B 162,316 1054 77 22 B	AA8U (+WX3M,AA8FE,K8MJZ,	N9JF 120,450 803 75 24 A K9UIY 112,800 752 75 24 A
KN6LM 23,256 204 57 17 A N7KFL 22,176 176 63 13 A	178,332 1158 W6BHZ (KC6s CEX,IZR,QO	Q,ops) WA7FAE	162,150 1081 75 22 B	KF8s DF,QE,N8CC) 172,018 1117 77 24 B	NA1R 88,800 600 74 17 A WD9GGY 87,046 613 71 23 A
KN6DQ 11,616 121 48 9 A KQ6AG 8,910 99 45 15 A	KE6TEE (KI6XG,KM6XI,N6V	21 7 B AI7B	138,300 922 75 24 B	K8JM (+AA8UG) 151,696 998 76 24 B	N2CKZ 81,400 550 74 24 A WA9AXL 74,460 510 73 12 A
WA7BNM 8,712 66 66 7 A K6ZCL 2,600 50 26 8 A		12 9 A K7GDN	+N/IXG) 14,896 152 49 24 B	KD8FS (+net) 56,848 374 76 17 A KC8BW (+WB8ITB)	KE9YR 69,856 472 74 16 A N2CS/9 66,672 463 72 17 A
AB6FO 200,508 1302 77 24 B	Santa Clara Valley W6IO 76,942 527		52.128 362 72 17 Q	46,068 349 66 23 A N8SNM (+net)	W9OF 60,882 417 73 13 A K9UQN 59,360 424 70 11 A
KØDI 143,250 955 75 24 B N8SR 33,536 262 64 3 B	W6PRI 57,552 436	66 24 Q K6EIL WW7Y	52,128 362 72 17 Q 14,070 105 67 10 Q	43,654 299 73 16 A K8EEH (KF8BS,N8MVP,ops)	W9IL 59,360 424 70 15 A W9LNQ 59,200 400 74 11 A
AC6EF 32,640 240 68 14 B N6DLU 1,188 27 22 3 B	N6NF 127,872 864 AE6Y 116,736 768	76 17 A W7CFL	139,370 905 77 24 A	42,980 307 70 21 A	N9RIT 51,612 374 69 17 A W9SZ 46,340 331 70 12 A
N6XTT (+KC6KUP,KD6NDX,	AC6NS 42,768 324 W6PLJ 38,482 271	66 16 A W7HS 71 20 A	40,460 289 70 19 A	AA8UH (+net) 35,140 251 70 12 B	NEØP/9 45,866 323 71 21 A K9VFA 44,604 354 63 19 A
KE6CTI,N6RMJ) 23,808 186 64 17 A	W9MAK 35,466 257 WB6IYS 25,916 209	69 8 A N5CI	19,250 175 55 24 B	N8MMB (+KF8YC) 32,368 238 68 19 A	AK9Y 44,354 331 67 24 A WB9UGX 41,052 311 66 17 A
KM6SR (+WA6YVL) 2,376 44 27 23 A	AC6BW 25,220 194 AA6TY 19,470 165	65 14 A K6XU//	+N5CT,AB7GM,WØMHS) 176,024 1156 77 24 B	NT8V (+net) 11,400 114 50 8 B N5XHT (+ops) 8,772 102 43 18 A	K9PPW 38,760 285 68 10 A KDØAV 36,656 316 58 9 A
Orange 2,570 44 27 25 7	KO6CL 12,480 120 WD6DXH 12,036 118	52 20 A Weste	n Washington	Ohio WASRJF 83,232 578 72 24 Q	W9OA 36,120 301 60 24 A W9MYY 27,730 235 59 19 A
KI6SN 8,208 114 36 15 Q	N6YE 11,468 122 NGØX 10,464 109	47 10 A NOTE	54,884 381 72 18 Q 9,896 101 48 12 Q	K80UA 32,804 247 66 14 Q WB8JAY 3,876 57 34 2 Q	N9MSG 25,544 206 62 24 A WD9CIR 24,400 200 61 14 A
AA6PW 150,150 1001 75 24 A N6HC 144,606 939 77 23 A	AA6IY 9,890 115 AC6IY 800 25	43 10 A WZDM /	(A7NX,op)	K88L 154,308 1002 77 24 A	W9ZEN 23,482 199 59 10 A W9QFV 18,560 160 58 12 A
NW6S 106,260 690 77 18 A K6HRT 64,610 455 71 15 A	K6MA 264 12	: 11 1 A NØAX	160,160 1040 77 24 A 146,806 952 77 24 A	NBJEC 148,302 963 77 24 A NBLXS 130,264 857 76 22 A	WA9AUW 14,630 133 55 8 A WE9A 13,566 133 51 7 A
W6TKV 63,280 452 70 20 A W6HAL 58,650 391 75 17 A	N6TV 209,608 1379 W6QHS 198,968 1292	76 24 B N7LOX 77 24 B NX7K	126, 588 856 74 23 A 121,650 811 75 15 A	W8CAR 100,886 691 73 22 A	AA9KH 12,430 113 55 16 A W9FF 12,320 110 56 7 A
NF6H 47,124 306 77 15 A KF6MP 32,000 250 64 12 A	W6QHS 198,968 1292 AA6KX 182,798 1187 NI6T 155,386 1009		90,8 80 640 71 24 A 70,9 92 522 68 18 A	WBUPH 90,520 620 73 24 A WASYRS 63,218 433 73 14 A	KW9A 11,600 116 50 12 A
W6NT 28,350 225 63 20 A	K2MM 154,308 1002 KA6W 129,504 852	77 19 B W7OM	59,340 430 69 21 A 58,220 410 71 16 A	WTSP 60,590 415 73 24 A NBUOO 51,376 338 76 20 A	KE9EX 10,900 109 50 8 A K9AHH 9,718 113 43 10 A
WA9NFO 12,192 127 48 7 A	N6ZB 111,000 740 AEØM 100,562 653	75 24 B W7QN	57,084 402 71 14 A 53,130 385 69 17 A	WASRCN 40,800 300 68 10 A NW4G 40,602 303 67 11 A	N9ZBR 9,292 101 46 9 A AA9LS 8,568 102 42 13 A
KM6HB 10,848 113 48 6 A KI6X 8,200 100 41 5 A	AB6YL 82,782 567 N6IP 39,520 304	73 23 B K7PUC	50,922 369 69 23 A 46,376 341 68 22 A	K8SJ 37,914 267 71 7 A WT8C 34,952 257 68 13 A	WB9ZAS 8,364 102 41 7 A W9VVU 7,800 100 39 2 A
K2PLF 128,896 848 76 24 B	N1EE/6 36,036 273	66 24 B WZ/O	34,362 249 69 24 A 33,142 227 73 15 A	NS8O 33,040 236 70 24 A W8IDM 31,008 228 68 7 A	K9IUA 4,248 59 36 12 A N9YZG 2,240 40 28 7 A
W6HT 10,500 105 50 7 B	K6PU 22,554 179 W6CF 9,870 105		32,256 252 64 14 A 25,380 235 54 19 A	AA8SM 28,000 200 70 10 A W8LHV 27,600 200 69 11 A	KB9UM 442 17 13 9 A N9YPN 40 5 4 4 A
Al6V/KH6 153,450 1023 75 24 A	W6ISQ (+net)	KC7MFP N7RV	20,880 180 58 14 A 17,888 172 52 8 A	AF8C 27,068 202 67 14 A W8GOC 26,752 209 64 7 A	K9LJN 166,440 1095 76 24 B
Sacramento Valley W6REC 22,000 200 55 7 Q	114,576 744 W6OAT (+net)	WZBOE	17,808 159 56 14 A 16,200 150 54 7 A	K3GP 25,452 202 63 13 A N8AA 24,800 200 62 3 A	K9ZO 153,692 998 77 24 B K9BGL 144,600 964 75 24 B
W6PYX 79,624 538 74 23 A	110,264 716 AA6MC (+net)	// 10 A K7XX	11,236 106 53 7 A 7,912 92 43 23 A	W8VQ1 22,572 198 57 11 A W8DHG 21,948 186 59 9 A	K9DX 135,124 913 74 17 B WG9L 122,100 814 75 21 B
K6BPB 43,920 305 72 21 A KD6WP 25,254 183 69 13 A	100,716 654 AD6E (+net) 41,756 286	// 19 A MOII	6,642 81 41 24 A 3,960 66 30 7 A	KB8GAE 21,838 179 61 8 A KC8EG 21,240 177 60 10 A	WD9HTC 102,346 701 73 21 B K9CC 52,164 378 69 8 B
N6JM 23,814 189 63 9 A K6DGW 17,024 152 56 24 A	7	W7WG AB7KA	2,548 49 26 14 A 736 23 16 3 A	WS8S 20,400 170 60 14 A KA8ZPE 17,566 133 66 12 A	KG9N 9,752 106 46 2 B WA9QNU 9,450 105 45 3 B
KC6NCF/T 1,700 34 25 12 A	Alaska	NZDOE	22,176 198 56 15 B	N8LBI 17,278 163 53 11 A KB8NTY 16,830 165 51 7 A	KS9W (+KD5PJ,AA9LX)
W6GO (N6IG,op) 217,910 1415 77 24 B	KL7WP 23,200 200 NL7DU 11,430 127	45 24 A W7BUN	3,000 50 30 2 B	WB8JBR 13,680 120 57 24 A NØMQC 10,506 103 51 24 A	179,872 1168 77 24 B WO9S (+AB4RL)
W6NKR 60,800 400 76 13 B	WL7DB 10,300 103	WC7S	ng 13,426 137 49 6 Q	W8KRR 10,120 110 46 5 A AA8RV 9,238 149 31 8 A	114,152 751 76 22 B N9LCR (+N9s LIL,OQE,RUC)
N6ZS (+net) 178,178 1157 77 24 B	N7DF/KL7 50,094 363	69 24 B NC7O	17.490 165 53 8 A	KG8TS 8,140 110 37 6 A N8ATT 5,740 70 41 8 A	24,570 195 63 24 B Indiana
NB6G (+op) 174,174 1131 77 24 B AA6WJ (+KM6AS,NV6O)	KL7Y (+NL7GP) 139,050 927	75 23 B AA7YH NA7R	12,750 125 51 22 A 8,800 100 44 3 A	W8RRB 5,040 63 40 16 A WB8ORV 4,080 60 34 24 A	NJ9C 56,800 400 71 17 Q
166,782 1083 77 24 B K6SG (+KF6A)	Arizona N7IR 78.952 556	Z4 A4 O AAØNC/7	(+WA3TLF,KBØEBH)	KIBO 3,008 47 32 11 A AABQQ 2,912 56 26 15 A	K9DZE 7,622 103 37 8 Q
138,446 899 77 24 B KV6H (+N6IYS)	N7JXS 31,496 254	62 17 Q	148,592 1004 74 24 B	KBBSTP 2,268 42 27 10 A NBCPA 1,150 25 23 24 A	KO9Y 162,162 1053 77 24 A KJ9C 93,240 630 74 24 A
108,108 702 77 24 B	AB7JX 540 18			K8AZ (K8NZ,op)	K9KI 43,884 318 69 18 A WBØOLA 37,128 273 68 14 A
N6TSR (+KQ6BL) 18,328 158 58 17 A	K7OX 163,240 1050 NG7S 107,100 714	77 24 A Michig 75 24 A WB8RUG		193,732 1258 77 24 B W8FN 168,872 1111 76 24 B	NJØU 36,480 285 64 10 A KF9UP 19,470 165 59 17 A
San Diego W6JVA 31,280 230 68 11 Q	W7ZMD 103,360 680 W7YS 95,550 637	75 23 A K8LJQ	30,618 243 63 20 Q 24,444 194 63 18 Q	NF8R 88,464 582 76 20 B WB8PHI 87,780 570 77 24 B	KB9IXT 10,176 106 48 15 A K9DIY 5,880 70 42 11 A
	NN7A 59,200 400 W8AEF 38,624 284	68 20 A WA9YEF	11,500 115 50 11 Q	KF8TM 64,800 432 75 24 B W8PN 63,474 447 71 18 B	W9JOO 2,200 44 25 3 A AA9GY 1,302 31 21 10 A
K5ER 72,224 488 74 20 A	W7QEK 15,950 145 W6SYM 12,408 132	47 7 A KORPE	95,250 635 75 19 A 93,176 613 76 24 A	KF8GE 62,054 437 71 16 B K8MR 61,600 440 70 7 B	N9NO 162,948 1101 74 24 B
AA6EE 26,368 206 64 8 A	AB7II 11,440 110 W2HTX 10,600 100	53 6 A KBOLK	66,576 456 73 22 A 64,800 450 72 20 A	AC8E (K8MR,op) 58,164 393 74 7 B	KE9I 148,918 967 77 24 B
KO6ZK 25,864 212 61 13 A AA6AN 20,048 179 56 16 A	W4VZR 10,340 110	47 14 A AABAV	64,800 450 72 20 A 64,184 452 71 9 A 61,200 450 68 17 A	KW8N 47,784 362 66 6 B	AA9AX (+N4UL,N9JRZ) 80,550 537 75 16 B
KO6YF 17,280 160 54 10 A	K6LL 217,294 1411 W8LQA 90,150 601	75 20 B KT8Y	56,420 403 70 11 A	N8ATR (K8MR,op) 46,784 344 68 5 B	W9YB (AD4OS,KE4USA,ops) 22,356 162 69 24 A
WB6FHK 37,488 284 66 19 B KT6V 25,016 212 59 3 B	W7ON 21,700 175	62 11 B WATJO	53.676 378 71 19 A	W9OCF (K8MR,op) 40,334 301 67 6 B	Wisconsin
W6MVW 10,952 74 74 6 B	Eastern Washington K7MM 147,378 957	77 24 A	E8RA,op) 51,750 375 69 24 A 50,820 363 70 13 A	WB8NBA 25,212 191 66 12 B NBAAT 21,600 180 60 5 B	N9NE 77,328 537 72 24 Q AE9K 31,688 233 68 12 Q
N6KI (+KC2MB,KM6SN,N6AZE,WB6NBU)	KW1K 42,344 316 K7IOO 23,600 200	67 17 A WABOJH 59 12 A WABRXI	50,820 363 70 13 A 47,600 350 68 12 A	W8RSW 17,328 114 76 12 B KJ8I 11,440 110 52 7 B	WD9IAB 23,364 198 59 17 Q KBØBAN/T 8 2 2 1 Q
163,394 1061 77 24 B San Francisco	K7SMW 10,980 122 W7GB 8,400 100	45 12 A KB811	47,124 306 77 19 A 44,400 296 75 16 A	WD8LLD (+net)	WB9HRO 122,700 818 75 24 A
W6JTI 78,588 531 74 24 Q	W1TR 76,950 513	75 18 B W8EGI	43,400 310 70 24 A 42,000 300 70 14 A	148,918 967 77 24 B NZ8O (+net) 135,128 889 76 22 B	N9CIQ 121,600 800 76 24 A N9CKC 120,600 804 75 24 A
K6GPB 8,400 105 40 15 Q KA6SGT 1,674 31 27 5 Q	Idaho	WASYPY	37,524 318 59 10 A 36,432 276 66 17 A	W8EDU (AF8A,N8ARD,W8WTS,ops) 129,976 844 77 24 B	WA1UJU 112,036 757 74 24 A WX9E 111,600 746 75 24 A
N6ZFO 80,550 537 75 21 A	K2PO/7 96,944 664 KK7A 37,830 291	73 24 Q KG8QT 65 10 Q	35,508 269 66 22 A	WD8AUB (+net) 125,048 812 77 18 B	AA9BJ 86,256 599 72 24 A

W9MSE	AAOOF 40,896 288 71 13 A AAOPB 30,360 230 66 14 A AAOPB 30,360 230 66 14 A K9BOL 30,208 236 64 9 A WOLO 29,640 228 65 11 A KFOOS 28,556 242 59 12 A K9YKL 26,060 230 61 17 A WOUNT 25,650 200 64 14 A NDDW 10,388 106 49 10 A K9MWM 9,660 105 46 10 A AAOWR 9,292 101 46 12 A W9KV 8,240 103 40 6 A AAOWR 9,292 101 46 12 A W9KV 8,240 103 40 6 A AAOWR 9,292 101 46 12 A W9KV 8,240 103 40 6 A NOSBM 12,222 43 27 10 A KBOOLS 2,322 43 27 10 A KBOOLS 2,322 43 27 10 A KBOOLS 13,322 43 27 10 A KBOOLS 13,322 43 27 10 A KBOOLS 13,322 43 27 10 A KBOOLS 144 9 8 3 A KORF 213,560 14 9 8 3 A KORF 213,560 12 9 2 A KCOUS 114 9 8 78 24 B KOAP 44,160 320 69 8 B NQ01 20,304 216 47 3 B IOWB WAGRPI 85,820 613 70 24 Q KFOH 141,864 932 76 24 A KKOW 134,680 910 74 24 A WDOGMY 94,20 655 74 24 A WDOGMY 94,20 655 74 24 A WDOGMY 94,20 656 74 24 A WDOGMY 94,20 656 74 24 A WDOGMY 94,20 35 18 6 A NCOP (AG9A,op) 217,756 1414 77 24 B KARSBS KFOM 32,256 252 64 18 Q WIOR 59,958 991 69 21 A AAOYJ 34,816 256 68 7 7 1 A WOUY 45,724 322 77 12 A AAOYJ 34,816 256 68 7 7 1 A WOUY 45,724 322 77 12 A AAOYJ 34,88 283 66 24 A AAOOR 32,026 239 67 17 A AOOVY 27,068 202 67 24 A WAOOCY 27,068 202 67 24 A WAOOCY 27,068 202 67 24 A WAOOCY 27,068 203 67 17 A WOVYRIN 15,996 129 62 11 A NOLPL 10,912 124 44 24 A	KØBJ 45,450 303 75 14 B NJBM 12,000 150 40 3 B ABØS (KØWA, WØCEM, WAØSXR, ops) 176,928 1164 76 24 B Minnesota WØYHE 44,200 340 65 20 Q W3FAF 20,832 168 62 6 Q WØWDW 155,344 1022 76 24 A KØKX (AAØVC, op) 143,792 946 76 24 A KØKK (AAØVC, op) 143,792 946 76 24 A KØHH 14,88 809 71 24 A KØLDH 11,88 809 71 24 A KØLD 28,920 337 68 20 27 A KØLE 28,118 213 68 15 A KØLE 28,118 213 68 15 A KØLI 9,660	KGØAF 9,600 120 40 8 A KAVX/Ø (WX3N, op) 213,908 1389 77 23 B KODEQ 137,700 918 75 20 B KMOL (+KØS RWL, VBU) 180,334 1171 77 24 B KMOL (+NØKFE) 30,500 250 61 20 B Nebraska Nebraska 109,200 728 75 23 A NØLAQ 19,566 163 60 6 6 14 A 66 14 A 6 14 6 6 14 A 6 6 A A A 0 6 6 14 A 6 14 A 6 14 A 6 14 A 8 6 14 A 6 14 A 6 14 A 8 6 14 A 14 14 15 7 12 B <th> VESBZR</th>	VESBZR
Phone 1 Connecticut KA1CZF 13,328 119 56 24 0 KC1FB 10,998 117 47 11 0 KH6CP/1 9,216 128 36 11 0 N1CJB 6,552 78 42 12 0 WA1CDW 46,512 306 76 12 A W1ECH 38,340 270 71 11 A NM1Q 38,240 270 71 11 A NM1Q 38,240 270 71 11 A NM1Q 31,250 230 70 13 A XX1Q 31,950 225 71 8 A KA1MH 31,222 233 67 17 A KE1AU 21,456 149 72 12 A KB1BOM 16,188 142 57 9 A WV1J 13,566 119 57 10 A KSHBOM 16,188 142 57 9 A WV1J 13,566 119 57 10 A KSHBOM 5,632 54 54 10 A AA2Z 5,548 73 38 2 A WV1J 13,566 119 57 10 A KSHMO 5,632 54 54 10 A AA2Z 5,548 73 38 2 A KSHMO 5,632 54 54 10 A AA2Z 5,548 73 38 2 A KSHMO 5,632 54 54 10 A AA2Z 5,548 73 38 2 A KSHMO 5,632 75 79 A KSHMO 6,782 77 75 9 KSHM 157,080 1020 77 14 B KSHMO 15,933 166 48 24 B KSHM 15,700 75 70 7 5 B NINGD (+NET) 60,368 322 77 24 B KKIN 42,492 10 59 6 B WINRG (KIVDF,KAIJXG,KEIAV, NIS APIJEC,KGY,LEU,KGY,DA, RBL,SBL, TAM,WIKKF,MATS OMZ, TRY,WYFUR,099 NINGD (+NET) 60,368 322 77 24 B KKIRM (+NET) 4,930 392 77 74 B NINOD (+NET) 11,1440 38 65 29 1 B NIOFO (+NICH) 11,1460 88 65 7 B NIOFO (+NICH) 11,1460 88 65 7 T KKIRM 37,544 447 76 13 A WH2SCA 30,816 214 77 13 A WH2SCA 30,816 214 72 13 A WH2SCA 30,816 214 72 13 A	KB1BPG (N1AIS.op) K1HTN 19,205 125 77 14 A K1HTN 16,016 143 56 24 A WT110 15,344 137 56 59 A K1UCA 14,890 113 65 19 A WA11TE 13,720 140 46 18 A NIHKV 13,440 112 52 16 A NIOTY 11,648 112 52 15 A NIOTY 11,648 112 52 17 A A11B 56,544 372 76 15 B WA3TXR 43,736 284 77 16 B WA1G 29,440 230 64 4 B KA1IGR 22,440 230 64 4 B KA1IGR 22,440 230 67 13 B KAIFR (+NIOEK WXIZ) 203,132 1358 77 24 B WIFM (+NISOH) 389 487 77 22 B NIAU (-NET) 70,840 460 77 17 B NOIJ (-NET) 78,840 460 77 17 B NOIJ (-NET) 11,858 77 77 12 B WA1KSY (-NET) WA1KSY (-NET) 11,858 77 77 6 A KD1FF (-KEIDJ) 8,936 108 46 7 A N1RYL (-KIADJ) 11,100 28 20 3 A KIRO (NJIF.op) 20,9902 1363 77 17 B WAIS 8,940 110 77 22 A KIBH (-NET) 37,998 271 69 6 B KDIMV (-KOIS YK, YU,NIS LID,KBP, LIG) 36,636 288 71 20 A WEIJ (-KCZ,NIS JRO,KHU,NOIL, WA1ESL) 28,984 302 71 24 A KA1FM 39,424 256 77 14 B WA1S 169,400 1100 77 22 A KIFM 39,424 256 77 14 A NIHOU 36,498 237 77 11 A NIFOU 35,358 297 71 12 A KAIFM 39,424 256 77 14 A NIHOU 17,990 135 55 10 A KOIDON 17,056 184 52 8 A NIOCH 17,990 155 55 10 A KOIDON 17,056 184 52 8 A NIOCH 17,990 155 55 10 A KOIDON 17,056 184 52 8 A NIOCH 17,990 155 55 10 A KOIDON 17,056 184 52 8 A NIOCH 17,990 155 55 10 A KOIDON 17,056 184 52 8 A NIOCH 17,990 155 55 10 A NIOCH 17,990 155 57 7 A	NISTB 11,232 117 48 7 A AF1T 9,880 76 65 5 A N1SHM 2,704 52 26 3 A K1DG 111,034 721 77 8 B N1TZW 21,840 168 65 16 B KC1F (+NET) 56,210 365 77 6 B WB1HBB (-NET) WA1YTW (+NET) 50,210 315 77 13 A WA1YTW (+NET) 51 77 13 A KZ1O (+N1TMZ) 23,166 201 58 13 A Rhode Island K1VSJ 63,910 415 77 18 A WF0E 45,288 306 74 22 A K1IU 34,050 227 75 8 A K1HMO 23,250 155 75 11 A K1DS 23,08 169 66 5 A K1HMO 23,250 155 75 11 A K1DS 23,08 169 66 5 A N1RUF 15,680 140 56 24 A K1MD 15,680 139 56 7 A WA1HYN 15,456 112 69 3 A N1RUF 15,680 139 56 7 A WA1HYN 15,456 112 69 3 A K2MN 2,000 40 25 3 A N1BUA 11,500 115 50 24 A K2MN 2,000 40 25 3 A N1BUA 11,500 115 50 24 A K2MN 2,000 40 25 3 A N1BUA 11,500 115 50 24 A K2MN 2,000 40 25 3 B W10P (K1s DS,PLX,009) 128,888 837 77 24 B W11PG 11,000 100 55 5 B W10P (K1s DS,PLX,009) 128,858 837 77 24 B W11PG 11,000 115 50 25 B W10P (K1s DS,PLX,009) 128,4130 1845 77 24 B W11PG 12,652 126 51 15 A KD1YC 13,652 164 77 22 B KX10 (+WE3Z,KB7IX) 66,528 432 77 23 A Western Massachusetts KZIM 182,490 1185 77 22 A KSDD 155,232 1008 77 10 B KY1H (+KB1W,WMK) CZUF 85,470 555 77 22 A KESEC 32,032 208 77 18 A	KF2IK 30,418 227 67 17 A AA2OI 22,158 239 61 17 A WD2K 28,400 200 71 22 A WX2U 26,460 210 63 12 A AA2SA 26,476 193 66 15 A N2UXC 17,670 155 57 16 A K2POF 17,248 112 77 11 A K2POF 17,248 112 77 11 A K2POF 15,222 129 59 24 A K2RI 13,872 136 51 7 A K2LBZ 13,000 100 65 17 A K2LCN 11,000 100 55 8 A KB2GWT 9,020 107 43 31 A K2LTG 9,030 105 43 6 A KB2GWT 9,030 105 43 6 A KB2GON 6,084 78 39 10 A KB2TG 9,030 105 43 6 A KB2GON 6,084 78 39 10 A KB2TG 5,328 74 36 8 A WB2KHE 5,304 78 39 10 A KB2TG 1632 51 16 24 A KF2LW 114,422 743 77 24 B WALKKM 99,600 664 75 19 B W1CC 99,022 643 77 15 B WALKKM 99,600 664 75 19 B W1CC 99,022 643 77 15 B WALKKM 99,600 664 75 19 B W1CC 99,022 643 77 15 B WALKE 92,720 610 76 20 B W2RYL 92,720 107 24 B WALKI (+NES WE,NFG CAH, WALSION 190,036 170 24 B WALK (+RESEW) 102,564 666 77 21 B WALK (+RESEW) 1234 77 24 B WALK (+KB2EW) 229 74 16 A KB2USV (KPOF,KZSP,0ps) 17,710 15 77 16 B WALK (+OP) 41,529 227 74 16 A KB2USV (KPOF,KZSP,0ps) 17,710 15 77 12 A KB2USV (RPOF,KZSP,0ps) 17,710 15 77 12 A KB2USV (KPOF,KZSP,0ps) 17,710 17 77 18 A KB2USV (KPOF,KZSP,0ps) 17,710 17 77 18 A KB2USV (KPOF,KZSP,0ps) 17,710 17 78 A KB2	N2TFM 16,560 120 69 9 A AA2YH 14,796 137 54 24 A N2LKF 11,880 110 54 6 A N2UHD 10,810 115 47 9 A N2PROM 19,080 120 42 8 A N2NYR 10,080 105 48 6 A N2WYZH 9,964 106 47 4 A KB2UTD 9,090 101 45 14 A WA2YBI 6,510 93 35 13 A WZEW 2,592 36 36 3 A WZEW 15,300 100 77 72 4 B KE2PG 59,052 399 74 15 B WA2UDT 32,850 225 73 24 B WZXI 23,100 150 77 72 0 B KABNC 15,400 100 77 79 B NZYKI 23,100 150 77 72 0 B KABNC 15,400 100 77 79 B NZYVI 15,300 150 51 7 B NZBCC 14,364 126 57 15 B WZHCA 13,560 113 60 6 B NZKJM (+KZWK,N2s BIM,WZH) ZI,3046 799 77 23 B NZF(+KAZS-LYH,KFZCP) NZF(+KAZS-LYH,KFZCP) NZF(+KAZS-LYH,KFZCP) XAZYYR (+NET) 44,968 292 77 24 B WA2WYR (+NET) 44,968 292 77 24 B WA2WYR (+NET) XZZA (+op) 19,712 72 72 A KDZL (+NET) 2,5102 163 77 11 B NZUBZ (+KBZTKO) NZTT(+KNZTHO) XZZA (+op) 19,712 128 77 15 A KFZBH (+op) 16,002 127 63 24 B NZENT (+NET) 12,762 83 77 10 B NZENT (+NET) 12,762 83 77 10 B NZETT (+NEXPH) NZTTTT (+NEXPH) NZTTTT (+NEXPH) NZTTTT (+NEXPH) NZTTT (+NEXPH) NZTTT (5,306 489 77 17 A WZBZA (2,384 129 48 18 Q AAZVK 12,384 129 48 18 Q AAZVYR (+NET) 1,764 K KS2G 76,650 511 75 17 A WZBZH 1,888 171 64 11 A WA2CNV 2,1340 194 55 16 A NZLUV 1,518 33 23 4 A NZLUV 1,518 34 29 A NZLUV 1,518

N2LSK (+KA2GWM) 12,444 122 51 8 A N2WPT (+NET) 8,320 104 40 20 A Southern New Jersey KA2GSL 2,704 52 26 4 Q KZ2I 97,944 636 77 24 A N2LCR 35,250 235 75 15 A	KE3GA 93,170 605 77 20 A KE3MX 77,832 564 69 13 A NK51 67,800 452 75 10 A W3NTD 42,700 305 70 12 A W3AP 41,300 350 59 6 A KE3EO 40,150 275 73 24 A N3TUA 40,032 278 72 16 A N3TUA 34,500 250 69 20 A WS3Q 31,088 232 67 18 A	ADBJ 44,092 302 73 13 Q W3SMX 12,352 148 62 13 Q WB0IWG/T 2 1 112 Q KB3AFT 146,520 990 74 24 A WA3HAE 138,138 897 77 24 A N3IXR 101,178 657 77 24 A N3BGV 98,100 654 75 21 A NWW3S 58,058 377 77 24 A	N4ZC (WB5M.op) 234,080 1520 77 24 B WF2G 38,220 294 65 6 B WIHN 35,112 228 77 7 B KC4YM 17,568 144 61 10 B WB8BMV (+NET)156,6181017 77 22 B WAATC (N3s FJK,QYE,KO4PY, DL1DO(,ops)	Virginia WF4U 17,820 182 55 11 Q KG4W 108,262 703 77 18 A KU3M 77,308 502 77 17 A KB4CG 71,700 478 75 22 A KD4HYT 65,700 450 73 12 A K7SV 61,600 400 77 8 A W4YE 57,596 374 77 11 A
W2ORA 29,078 217 67 14 A N2VPN 22,656 177 64 10 A W2FGY 21,420 170 63 15 A W5KI 20,930 161 65 9 A KF2YX 20,060 170 59 11 A KF2BQ 14,280 140 51 11 A N2OO 13,720 140 49 6 A KA2BEO 12,700 127 50 9 A N2YCD 8,036 98 41 16 A KG2DO 7,310 85 43 8 A	WS3Q 31,088 232 67 18 A KA3LCF 30,600 225 68 18 A N3OHH 24,840 180 69 10 A W3SSS 22,780 170 67 12 A AA3AH 19,154 157 61 8 A WB3LNZ 17,516 151 58 11 A KE3OA 16,200 150 54 9 A W3EDU (N3KKM.op) 15,860 130 61 8 A W3MUM 15,158 143 53 24 A WB3AAL 15,120 120 63 7 A	KESTA 33,280 260 64 24 A KASPOA 25,418 179 11 7A W3TWI 24,344 179 68 24 A NISI 24,178 157 77 10 A KESKD 16,520 140 59 8 A KASWIK 12,740 130 49 13 A WASGPP 12,420 115 54 12 A WASTLT 11,832 116 51 8 A KASUOL 11,500 125 46 14 A KASHOL 11,500 125 46 14 A WASHGW 9,870 105 47 9 A	KO4MM (+NET) 53,808 354 76 22 A KO4MM (+NET) 53,130 345 77 24 A KQ4QM (+NET) 47,740 310 77 24 A KE4S RRO, WCW, KO4JN, N4XFT, WA4FOT, KCSF, WSNBX, WSFHW, ops) 42,174 297 71 24 A KR4RR (+KD4)PO, KE4S PTQ, RRX, YRZ,	N4MM 55,132 358 77 18 A ADADG 45,584 308 74 18 A KD4BB 37,200 248 75 23 A KQ4KK 36,792 252 73 16 A K4FPF 30,030 195 77 9 A W4VC 27,068 202 67 12 A AA4KD 27,068 202 67 15 A WD4ELJ 26,980 190 71 13 A AF4O 26,772 194 89 12 A
W2YFW 2.912 56 26 10 A K2MK 2.450 49 25 2 A WA2CVJ 2.040 51 20 3 A KD2AE 1.408 32 22 3 A KB2THF 8 2 2 1 A AB2E 200.046 1299 77 21 B N2MM 132,132 858 77 12 B WB2DIN 61,908 402 77 11 B KD2KS 23,250 155 75 12 B	N3VPG 12;342 121 51 24 A W3EFY 12;320 112 55 8 A KA3TUG 12;312 114 54 11 A N3LBC 10;290 105 49 7 A WB3IZF 10;212 111 46 8 A KE3EZ 10;032 114 44 13 A N3TRO 8,888 101 44 7 A WA3ENQ 8,832 96 46 11 A AA3FY 8,692 106 41 6 A KR31 7,488 78 48 5 8	WW3C 260 13 10 24 A KC3MR 112,752 783 72 10 B KSLA 77,000 500 77 14 B WB3G 15,510 141 55 3 B K3GYD 15,128 122 62 7 B K3LR 12,720 120 53 23 B W3GH (+W9XR) 303,534 1971 77 24 B	YSA,YSB,YSC,KQ4K,KR4DU, KS4PX,W94MOV) 65.20 204 65 23 A KQ4K (+KD4TPC),KE4S PTQ,RRX,YRZ, YSA,YSB,YSC,KR4DU,KS4PX) 19,600 175 56 20 A Northern Fiorlda KXSU 280 14 10 2 Q	AEADG 26,412 213 62 9 A WBAZPF 26,208 182 72 18 A KB4RME 25,480 182 70 16 A KC4ZRH 25,480 182 70 16 A KN4US 23,688 188 63 20 A KR4JU 21,452 173 62 13 A W4TMN 20,662 171 61 8 A KE4PUC 18,960 158 60 5 A KS4UW 18,900 175 54 12 A K4FPT 17,640 126 70 8 A
KA2KFO 19,200 150 64 11 B KB2MMI (+WA2CUE) 53,436 366 73 24 A N2PNB (+AA2HO) 17,066 161 53 18 A KA2OSV (+ops) 15,088 164 46 17 A Western New York KB2SE 13,920 120 58 4 Q	AG3G 4,556 67 34 7 A K3TX 3,500 50 35 24 A W8IJ 88 11 4 1 A N3KGC 2 1 1 14 A AK3V 36,652 238 77 8 B KB3TS 30,954 201 77 11 B WB3FAA 30,030 195 77 5 B KB3AGZ 26,180 170 77 12 B K3TEJ 20,070 223 45 3 B KD3FC 18,240 120 76 24 B	K3MD (+K03SF,N3PUR) 168,868 1141 74 24 B WR3D (+net) 39,886 259 77 6 B KA3QFC (+W3WXZ) 31,108 202 77 17 A K3UA (+net) 11,036 178 31 2 B 4 Alabama KN4QS 29,104 214 68 16 Q	N4EEB 213.598 1387 77 24 A AEAJK 98,474 581 77 13 A WB4OMM 29,568 192 77 12 A KS4KP 26,412 13 62 24 A KD4UJE 22,712 187 68 10 A KSWTA 12,126 112 59 24 A K94UEA 12,188 107 57 10 A K98B 11,858 77 77 24 A KO4YY 10,752 112 48 16 A N4XSY 9,996 102 49 24 A	ACAXT 17,402 113 77 9 A KQAXJ 16,900 130 65 14 A WD9HBC 15,600 150 52 12 A WBARMJ 14,732 127 58 14 A KE4YFU 13,440 112 80 16 A KE4MIL 12,126 129 47 14 A KRACZ 11,880 110 54 9 A N4LJS 10,710 105 51 7 A KD4QVT 9,000 100 45 5 A KJ4VG 8,200 100 41 4 A
AE2T 87,150 581 75 24 A NA2Q 78,144 528 74 16 A KG2BN 58,956 427 69 23 A KG2AU 38,184 258 74 21 A W27Z 37,448 302 62 24 A WB2MWW 35,742 259 69 15 A NM2J 34,816 256 68 18 A KE2UV 25,102 163 77 15 A AA2VZ 20,732 146 71 16 A KF2XC 19,824 168 59 24 A	ÄÄÄJÄÖ 16,264 107 76 13 B WA3DMH 9,592 109 44 24 B WT3H 8,970 115 39 7 B WY3T (+KA3PVA,N3s KGL,THJ, WB3FYL) 118,888 772 77 22 B AA3JU (+NET) WA3LVR (+NET) 114,114 741 77 20 B WA3LVR (+NET) 101,948 662 77 15 B K3WW (+NET) 46,200 300 77 10 B	AA4UF 55,748 362 77 20 A NAYOS 46,472 314 74 16 A KZRUE 38,304 336 57 24 A KAZQB 36,140 278 65 10 A KFBUN 30,552 228 67 24 A WD4MPS 12,870 117 55 4 A WZ4F 269,192 1748 77 24 B KAJYO 196,966 1279 77 24 B	WD4GDZ (+AC4CM) 95,480 620 77 17 A Puerto Rico KP4DDB 2,232 36 31 4 Q WP4LNY/T 522 29 9 10 A KP4VA (KP4s TK,YP,ops)	KT4CR 5,760 72 40 9 A KM4DU 1,520 40 19 4 A W3FTG 992 31 16 2 A W4MYA 275,814 1791 77 24 B WD4KXB 191,268 1242 77 23 B WB9D2S 100,980 673 75 12 B WB4MFS 56,296 454 62 9 B W4LMJ 51,744 336 77 14 B N3RC 31,842 261 61 4 B K3SS 25,578 203 63 11 B
WBZWPM 18.788 154 61 24 A W2MTA 18.492 134 69 24 A KMZL 18.408 156 59 24 A KMZL 18.408 156 59 24 A KMZL 18.408 15.732 138 57 9 A AA2TM 15.004 121 62 24 A WAZHBO 14.580 135 54 8 A WD2F 12.000 120 50 10 A NZLQQ 11.424 119 48 14 A KAZCNG 10,914 107 51 8 A NZMD 10,710 105 51 7 A W2IMO 10,584 108 49 4 A	N30WG (+nel) 37,650 251 75 24 A N3FOG (+N3WFP) 34,188 222 77 12 A N3KFN (+NET) 26,334 171 77 16 8 N3IMF (+NET) 21,280 152 70 13 A N3IMS (+NET) 21,098 137 77 18 A KC3M (+NET) 15,400 100 77 8 A N3MKZ (+NET) 11,858 77 77 11 B	KB4FAI (+KS4YT) 174,328 1132 77 21 B AD4DA (+AD4DB,KD4WAC,KE4s FRZ, KJQ,RU,KF4BEE) 44,232 291 76 24 B Georgia W4OO 10,388 106 49 24 Q KM9P (AA4LR,op)	143,792 946 76 24 A South Carolina WD4PLF 32,234 227 71 12 A KE4ODW 28,6520 230 82 13 A KCAUH 18,582 153 57 8 A N4CYG 3,080 55 28 5 A KE4VD 53,130 345 77 14 B KS4DU (+KE4s MHO.PKD,KQ4TP)	KN4VV 12,996 114 57 5 B W4PSJ 11,880 90 6610 B WD4MUR 11,858 77 77 9 B W4ZYT 8,320 104 40 3 B KC4YUK 8,118 123 33 9 B KC4DY (KB4NT, WA4RDI) 239,624 1556 77 24 B AB4YZ (+KN4SK,KO4SO)
WS2U 10.506 103 51 7 A AA2WS 10,400 104 50 24 A AA2QK 5,500 125 38 11 A N2RMZ 6,500 105 42 8 A KF2SJ 6,820 105 42 8 A KG2DE 6,352 87 48 15 A AA2XP 5,500 55 50 24 A KF2UC 3,234 49 33 7 A KB4VL 2,000 50 20 5 A AA2MU 900 25 18 2 A	Meryland-DC KSGHH 20,304 188 54 11 C N5OKRIA 20,304 188 54 11 C N5OKRIA 66,066 429 77 23 A NZUS 53,280 360 74 20 A WK3H 50,280 359 70 16 A N3AOE 40,004 274 73 24 A K3SA 35,000 250 70 12 A W3AZ 30,800 220 70 12 A	117,344 772 76 24 A K-BAI 44,844 303 74 9 A K-BAI 44,844 303 77 9 18 A K-GGG 43,632 303 72 18 A K-F4ABR 29,304 222 86 19 A K-F4ABR 28,404 210 67 17 A K-SACM 26,426 181 73 24 A K-BHT 18,900 135 70 17 A N9HX 12,650 115 55 8 A H-BBO 11,660 106 55 7 A	W8CNL (+KC4ELC) 49,280 320 77 24 A Southern Florida AD4TT 18,896 153 61 14 Q AC1O/A 140,140 910 77 21 A AD4VH 38,592 268 72 24 A WP28/4 28,080 215 65 16 A W2EGO 18,800 140 80 13 A	108,450 723 75 24 A N4PMC (+KCAs GIA,NFK,KO4T), KRADO,NATRX) 85.778 557 .77 24 B N4SR (+NET) 77,154 501 77 20 A KCAZHO (+KDAMVG) 64,834 421 77 23 A K3SW (+NET) 46,434 321 77 6 B K4UK (+KEĞPUC) 73 20 A W3YY (+NET) 34,634 221 77 9 B
K2ZJ (WA2LCC, op) 240,394 1561 77 24 B K8FC 196,966 1279 77 24 B AJ3K 188,342 1223 77 24 B W24PF 172,486 1120 77 17 B N2PP 160,314 1041 77 21 B AF2K 123,816 804 77 24 B AA2PQ 66,836 434 77 20 B N2MF 63,756 462 69 7 B WB2KLD 33,136 218 76 24 B	K9YDX 27,336 201 68 8 A KA3TGY 25,308 171 74 15 A W3GHR 24,948 189 68 10 A K4PBG 23,436 189 67 7 A WBSEC 21,650 165 65 12 A W3CE 21,950 165 65 12 A W3CE 21,50 165 65 12 A W3BECU 15,232 119 64 10 A W3HPV 14,672 131 56 12 A W2COS 13,566 133 51 9 A	KRAYV 1.440 30 24 3 A KW4E 578 17 17 1 A KJ4FW 76,692 498 77 21 B KB4GID 53,900 350 77 9 B NAXON 48,356 314 77 18 B WB5RYB 28,560 204 70 11 B NANMA 14,364 126 57 11 B AB4RU (+AA4GA,N9HZQ)	N1VKO 15.504 152 51 11 A KRAZA 14.820 305 57 16 A W3DHN 11.660 110 53 10 A WB4BBH 11.555 107 54 8 A K4JK 10.914 107 51 17 A KJAWH 10.400 104 80 4 A WB4GLP 1.102 29 19 2 A KB4GZZT 2 1 1 5 A N4BP 200,640 1320 76 21 B	WA4QOM (-NET) 33,726 219 77 19 A KC4HR (+NET) 28,644 186 77 11 B AD4TU (+NET) 16,016 104 77 24 B 5
WRZV 28,014 203 69 19 B WFSS 25,460 182 70 7 B NA2A 24,448 191 64 8 B AA2VN 23,100 165 70 13 B KSMA 14,740 134 55 3 B WB2RAJ 11,704 77 76 6 B WJ2O 11,356 167 34 3 B KB2NU 7,100 71 50 24 B WFZA 4,144 56 37 2 B KB2UGM (K2DB,KA2IYB,KB2s KLP,	KE3PB 12.032 12.8 47 9 W3EKT 11,956 136 44 6 A N3HUV 11,316 123 46 7 A WJSN 10,710 105 51 9 A KA3DOF 10,512 73 72 15 A KSJAL 9,888 103 48 24 A N3UVD 8,036 82 49 5 A N3USS 7,360 80 46 9 A KA3TCC 6,004 79 38 6 A WB2BZRI3/T 47 34 7 24 A	299,222 1943 77 24 B KRAYO (+KE4KBU) 40,108 271 74 20 A Kentucky KO4BI 50,616 342 74 17 Q AA4RX 169,400 1100 77 13 A KI0LIHA 79,344 522 76 21 A KI4DC 79,310 515 77 15 A WAAVOC 50,688 352 72 18 A	MYUA 47,124 306 77 11 B AA0BA (+WA3NKO,KE4EMR) 133,210 865 77 22 B W4NVU (KD4s GCP,CVY,N4s OLE, PBF,WA4QKO,K7UPJ,ops) 88,088 572 77 23 B Tennessee AC4HF 10,800 100 54 5 Q	KRSWWA 176,176 1144 77 24 KKSRR 18,644 158 59 24 NSBED 16,104 132 61 14 WV3BV5 15,624 126 62 6 6 KASJOF 15,104 128 59 18 A KSJH 12,480 120 52 8 A KKSEB 10,176 106 48 24 A ABSTQ 10,120 10 48 16 A NSUQE 8,372 91 48 15 A
UVT,N2s PEB,TUK,TWI,0ps) 106,414 691 77 24 B W2SEX (AA2s OT,VN,YW,K2ZF, KA2TST,KG2DE,N2UT,WB2WUB,0ps) 65,316 554 77 24 A AA2IX (+WA2HXH) 77,308 502 77 24 B W2WK (+NET) 61,754 401 77 16 B WA2RZJ (+N2UHI) 52,800 352 75 24 A	WB2BZR/3/T 476 34 7 24 A WB3KIC 312 13 12 5 A KF3P 292,138 1897 77 24 B KE3Q 291,368 1892 77 24 B K3IXD 103,950 675 77 17 B N3III 78,540 510 77 24 B N3KQP 13,566 133 51 24 B W3FOE 3,200 50 32 10 B W3GN 850 25 17 1 B	AC4PY 50,358 327 77 24 A KJ4VH 42,966 279 77 24 A AE4GH 40,032 278 72 23 A AD4SM 39,798 297 67 24 A AD4NM 37,728 262 72 17 A AL7L 35,642 251 71 14 A KR4KL 30,096 209 72 14 A KT4DQ 29,808 216 69 13 A KC4JQ 27,950 215 65 16 A NJJRG 20,286 147 69 14 A	WA6KUI 107,646 689 77 24 A 76,618 517 77 22 A 76,618 517 77 24 A 76,618 517 77 24 A 76,618 517 77 24 A 76,618 518 518 518 518 518 518 518 518 518 5	AB5SE 196,504 1276 77 24 B W5KL 2,632 47 28 1 B W5KM (K5GOE,KBSHU,KC5s JDO,LDC, LDD,PYB,NSs UWY,YGR,NØOLT.ops) 214,830 1395 77 24 B AB5LE (+AB5TR,KC5s NPU,RCR) 112,112 728 77 22 A AB5RQ (+KB5ZYC,KC5)HB,KD5ZM, KISBV,KJSYD,NOSYW.ops)
NG2P (+NET) 46;200 300 77 24 B KV2W (+KG2BW,N2s HCO.VEB) 27,060 205 66 23 A KB2LUG (KB2s AED LOY, KC2YF, N2s MRE,ZPT,WA2TOL, ops). 183 56 24 A WNBZ (+AA2HV,K2YGF,N2s LZH,OMY, TKX,VZC,WTC,WA2ISC) 21;204 171 62 11 A AA2IO (+N2NEP) 19,044 138 69 9 B	N3RR (WB2EKK,N3KTV,ops) 229,668 842 77 16 B W3HVQ (+NET) W3ZZ (+NET) 107,184 896 77 22 B W3ZZ (+NET) 107,030 695 77 10 B ND3F (+N3SLN) 104,720 680 77 16 B AA3HA (+NET) 82,082 533 77 24 B	NAOKX 110.572 718 77 21 B AEAEY 100.188 659 76 22 B ND4Y 92.400 600 77 10 B KC4DWT 55.800 372 75 16 B NAXM 10.920 105 52 3 B North Carolina WA4ZXA 159.544 1036 77 24 A KC4AV 47.432 308 77 21 A	KAHWG 10,400 100 52 6 A AD4F 10,120 110 46 6 A W4AY (WA4ZZU.op) 8,568 84 51 4 A KY2P 6,710 61 55 24 A NAOW 1,3500 50 35 4 A WAAMFI 1,330 35 19 5 A KØEJ 210,210 1365 77 20 B K4LTA 61,600 400 77 12 B W4OGG 23,976 162 74 7	83,006 539 77 24 A
3 Delaware WW3V 165,396 1074 77 20 A N4MO/3 46,080 320 72 15 A NY3C 43,296 328 66 12 A N8NA 10,234 119 43 24 A NX3A (+NET) 44,198 287 77 9 8	MA3WJD (+NET) 72,688 472 77 18 B N3QYA (+NET) 69,454 451 77 24 A KB3BLK (AA3KW,KD3ZS,N3s LDJ,LFL, MIJ,MJA,NTQ,TZA,W3s DAD,DQI, WA3HUB,WB3KXJ,WISN,WK3X,WW3D, ops) 60,522 393 77 19 B WN3N (+N3s MPK,TOH) 41,712 316 66 22 A	KN4XP 31,724 206 77 18 A WB4Y 30,800 200 77 16 A KQ4QQ 18,172 154 59 11 A WB4VIM 17,346 147 59 12 A AD4IE 14,550 140 52 24 A KYGM 14,300 130 55 5 A N4UH 12,208 109 56 3 A WB8PAS 12,100 121 50 9 A AD4RK 11,648 104 56 15 A AP4D 10,658 73 73 13 A	AE4BT 19,800 150 66 14 B K4AMC 10,032 114 44 4 B N4ZZ (+W9W) 263,186 1709 77 24 B K04EW (+KD4HIK,KQ4HC) 229,768 1492 77 24 A KA4OTB (+KA4OTC,KF4BBH) 25,460 190 67 11 A KE4KTD (+AE4BT) 18,000 150 60 16 B	W5WMU (KZ5D,op) 285,516 1854 77 24 B N8RR 123,50 8 602 77 12 B W5GAD (KB4OGM,N5S OGW,TEK, UXT,VVB,W5S LMR,RMX,WA9TMC, WBSVTN,ops) 196,504 1276 77 24 B AESV (+K5MC,NSMYH,WA5SXU) 162,162 1053 77 24 B
Eastern Pennsylvania WT3W 73,416 483 76 20 0 N3IGA 23 322 169 69 24 0 WA3YON 20,064 209 48 10 0 WE3C 7,632 106 36 4 0 WA3NNA 7,200 60 60 5 0 WA3NDH 128,436 834 77 21 A N3ADL 119,658 777 77 17 A NY3Y 101,948 662 77 24 A	W3/G3ZCZ (+NET) 27,412 178 77 12 A KA3OUT (+KE3GB) 175 63 12 A N3MNT (+NET) 19.558 127 77 11 A Western Pennsylvania AG3H 61,560 405 76 15 Q	KBZBBG 10,302 101 51 24 A KD4SQN 10,290 105 49 7 A KS4XG 10,000 105 50 5 A KS4S 7,770 105 37 7 A WB4AQK 6,762 69 49 7 A AE4JB 640 20 16 3 A AA4NC (KI4HN,op) 236,082 1533 77 24 B	Virgin Islands NP2E 2,816 44 32 8 Q KP2/KE2VB 239,096 1573 76 24 A KG4SH 99,072 688 72 15 B KG4MN 82,698 537 77 15 B NP2B (+NP2I,W4OVU) 154,616 1004 77 20 B	N5OZB (+AA5ZT,KSSL KBSZRD, KCSs DOT,FLN,KJSSU) 161,546 1049 77 24 B N5JDB (+ops) 33,534 243 69 24 A Mississippi NSODE 70,686 459 77 21 A NSFG 29,106 189 77 24 A
114 May 1996 U 5	T			

			_	
KB5FET 27,738 201 69 24 A KJ5RC 21,710 167 65 18 A	WA5DWX (+WA1YIA,K5ZTY, KC5s HZD,IKN,NVY,OFE,KJ5IP,	KO6CX 16,956 157 54 13 A	AA6MC 188,958 1227 77 19 B NI6T 174,020 1130 77 24 B	KJ7CY 19,468 157 62 14 A K7FD 11,858 77 77 15 A
AA5CI 13,104 126 52 24 A WQ5L 2,300 50 23 3 A	KK5LD,N5s EAD,KEU,NB,WA5SAJ, WD5DXL,N6RRJ)	KJ6DL 170,170 1105 77 22 B AC6DQ 103,180 670 77 19 B	N6TV 100,200 668 75 8 B W6QHS 83,006 539 77 7 B	WA6BXH 5,184 72 36 24 A W7KTE 4,096 64 32 9 A
WA5OYU 73,220 523 70 9 B	117,502 763 77 22 B K5NN (KB5YVT,op)	W6SUN 101,948 662 77 13 B WA6CMM 89,628 582 77 24 B	AB6YL 81,900 546 75 19 B N1EE/6 37,940 271 70 11 B	WB6VVS/7 1,920 40 24 4 A
KB5RQL (+AC5BN,KB5s IXI,VLA,	101,024 656 77 7 A KZ8E (+KB5TES)	N6KD 69,300 450 77 23 B KD6WP 30,076 206 73 8 B	W6CF 11,904 124 48 2 B N6IP 10,488 114 46 5 B	WA7FAB 194,348 1262 77 24 B N7MMQ 163,086 1059 77 20 B
KC5s AWW KPP KG5MZ N5KKG, WD5DBW) 94,402 613 77 17 A	87,626 569 77 21 A W5EHM (N1s LWI,PVB,KA5WSS,	K6BPB 25,844 182 71 21 B KO6IS 17,176 113 76 12 B	W6OAT (+NET)	N7IXG 64,800 432 75 24 B K6ZX 24,700 190 65 13 B
New Mexico	KC5GPG,SQ9DDZ,ops) 49,392 343 72 21 B	AB6LJ (+AA6WJ,NV6O)	110,264 716 77 14 B W6ISQ (+NET)	KI7Y 24,310 187 65 8 B KB7FMW 17,112 138 62 24 B
KA5BAT 95,760 630 76 20 A KT5X 68,376 444 77 7 A	KC5NTN (WA3PAY,KC5s BJI,ITZ, NMG,N8ECG,ops)	209,286 1359 77 24 B KV6H (+N6IYS)	101,024 656 77 17 B AEØM (+NØBBS)	W7IMP 10,082 71 71 11 B
AASMK 30,750 205 75 17 A KJ5EY 18,840 157 60 8 A	44,400 300 74 24 A K5EC (+NET) 32,562 243 67 5 B	207,438 1347 77 24 B KF6A (+AA6WJ,KJ6TC,KM6AS)	75,088 494 76 24 B AD6E (+NET) 59,906 389 77 13 A	AI7B (+N2WEW) 121,326 831 73 12 B
NØEHF 17,880 149 60 8 A	KK5IJ (+NET) 30,856 203 76 15 A KK5CA (+KC5NDE)	201,894 1311 77 24 B K6SG (+K3EST)	AB6WĎ (+NÉT) 31,416 204 77 18 B	KA7ZUH (+NET) 115,650 771 75 21 B
KB3EI 228,382 1483 77 24 B W5JOV 10,920 105 52 4 B	21,960 183 60 11 A K5TM (+ops) 17,360 140 62 7 A	195,426 1269 77 24 B N6ZS (+AA6WJ,KM6AS,KN6OX,N6SNO)	7	Utah
K9RS (+AA5B,K5TA)	KK5MH (+KC5NRA) 15,812 134 59 20 A	182,182 1183 77 24 B K6SMH (+KE6s QNJ,WHD)	Alaska	W7CFL 189,112 1228 77 24 A AL7PO 80,784 561 72 24 A
352,044 2286 77 24 B K7UP (+KN5H)	KK5HD (+K5QLP,KC5BPT,N5s EOP, QWF,WA5SNL)	75,600 504 75 24 B N6TSR (+KQ6BL)	KL7WP 20,740 170 61 13 A NL7DU 11,752 113 52 24 A	WA7MTF 27,360 190 72 18 A W7HS 25,344 192 66 18 A
218,218 1417 77 15 B	11,074 113 49 9 A	32,568 236 69 22 A	KG5EG/KL7 10,260 90 57 24 A	KJ7CU 20,400 170 60 24 A KB7SLK 20,064 152 66 10 A
North Texas W5FIO 10,028 109 46 24 Q	West Texas AB5WB 19,140 165 58 10 Q	San Diego w6CN 36,328 239 76 24 Q	KL7Y 154,000 1000 77 13 B N7DF/KL7 46,116 366 63 24 B	AB7GP 15,400 140 55 11 A KI7ST 10,400 104 50 10 A
NA5S (KE5CV,op)	N5NA 13,200 120 55 4 A	N6SMW 23,506 161 73 24 A	Arizona	KI7WX 234,234 1521 77 24 B
246,862 1603 77 24 A NM5M 222,530 1445 77 24 A	N5RZ 361,284 2346 77 24 B	WA6UFY 16,956 157 54 6 A KN6IP 16,688 149 56 24 A	N7JXS 35,510 265 67 17 Q AB7JX 9,292 101 46 14 Q	Western Washington
WXØB 203,126 1319 77 24 A NA5Q 178,948 1162 77 24 A	KD5SP (+NET)	N6YZJ 14,280 140 51 24 A KB7VE 11,448 108 53 24 A	WA7LNW 74,536 484 77 17 A	N7DM 2,132 41 26 2 Q
WD5K 144,144 936 77 23 A NN5T 83,160 540 77 16 A	203,434 1321 77 23 B KJ5BX (+KB5KYJ,KC5s HNH,HNI,KQF,	AA6EE 10,780 110 49 5 A W6MVW 1,196 26 23 2 A	NG7S 57,456 399 72 24 A KD4HXT/7 34,408 253 68 17 A	N7LOX 140,756 914 77 24 A K7LXC 129,450 863 75 22 A
WK5K 35,770 245 73 19 A KD5BE 28,224 196 72 18 A	OBX,QKV,QVM,KK5SX) 86,724 594 73 24 B	W6JVA 48,396 327 74 9 B	KK6IF 33,592 247 68 24 A W7YS 30,816 214 72 8 A	W7QN 62,100 450 69 18 A K9JF 60,984 396 77 8 A
AB5C 27,412 178 77 13 A AC5EZ 26,268 199 66 15 A	6	N6KI (+KB6NMK,N6s AZE,UZH,XJM,	W7EYG 26,400 200 66 18 A KB7SLJ 24,864 168 74 22 A	WA7VNI 59,340 430 69 21 A WB9ZPK 37,440 260 72 18 A N7OYR 32 200 230 70 24 A
AC5CT 25,728 192 67 13 A N5MTS 19,154 157 61 17 A	East Bay	WB6NBU) 225,610 1465 77 24 B N6AWF (+KB6HAK,KD6WZU,KE6SLF,	NN7A 22,806 181 63 12 A KA7AKJ 13,340 115 58 9 A	KY7K 31,974 219 73 22 A
KB5GLV 16,380 126 65 11 A KI5PA 12,544 112 56 17 A	W6RGG 77,000 500 77 16 A NP4IW/6 35,112 266 66 8 A	N6s EČA,NHC,WB6DIJ) 174,648 1149 76 21 B	KJ7BS 12,932 122 53 24 A KJ7OF 12,852 126 51 12 A	KA7KUZ 27,200 200 68 22 A
AE7C 11,778 151 39 10 A W5DLM 10,000 100 50 7 A	KG6LF 31,758 237 67 5 A KN6QT 25,840 190 68 21 A	KO6YF (+NET) 27,600 200 69 13 B	AA7YP 10,094 103 49 8 A W6SYM 6,400 80 40 4 A	NØMZT 25,984 203 64 19 A KI7YB 24,522 201 61 17 A
KC5JAJ 9,494 101 47 24 A	N6GRJ 11,660 110 53 6 A KD6ZMJ 4,514 61 37 10 A	San Francisco	W4VZR 5,112 71 36 8 A W7PU 2,378 41 29 24 A	KE7SW 23,718 177 67 21 A AB7DS 22,326 183 61 19 A
KA5W (KS1G,op) 316,624 2056 77 24 B	WB6DSV 2,958 51 29 2 A KQ6PW 1,232 28 22 4 A	WA8LLY/6 42,966 279 77 12 A N6ZFO 35,360 260 68 10 A	KA7TDH 850 25 17 24 A	KA7MYU 18,676 161 58 11 A N7OZN 18,240 160 57 15 A
K5RX 288,442 1873 77 24 B W5GN 235,466 1529 77 23 B	KD6UO 260,568 1692 77 24 B	W6ESJ 17,228 118 73 24 A N6RA 11,712 122 48 4 A	K6LL 326,942 2123 77 24 B WAØKDS/7 141,526 919 77 21 B	KJ7BN 16,416 144 57 20 A KI7HW 15,840 144 55 15 A
AA5UO 160,930 1045 77 24 B AL7CQ/W5 154,000 1000 77 15 B	N6RO 169,708 1102 77 12 B N6UUG 50,410 355 71 12 B	WW6D 510 17 15 2 A	KI7LC 130,500 870 75 24 B W8AEF 119,966 779 77 23 B	N7RV 11,660 110 53 7 A K7GDN 10,914 107 51 6 A
W5PLN 109,186 709 77 24 B WB5B 94,572 666 71 12 B	W6GPM 43,920 305 72 17 B K6AOM 8,692 106 41 8 B	AA6YX 177,870 1155 77 24 B AC6AH 20,480 160 64 12 B	NF7E 78,600 524 75 20 B W7ON 31,680 220 72 13 B	KJ7NS 9,810 109 45 24 A WA7UVJ 9,630 107 45 24 A
W5LKP 44,400 300 74 11 B KI5NE 31,330 241 65 24 B	W6BSY (+KM6OH)	WA6CTA 14,040 130 54 2 B	KC7KFF (KC7s CER,EFP,FVT,MOC,	KD7LJ 3,876 57 34 6 A W7RGL 2,070 45 23 5 A
K5MR (+KI5JC)	184,954 1201 77 24 B AB6DI (+NET) 27,874 181 77 20 A	W6BIP (+N6RA) 79,344 522 76 18 B	MOD,N7UJJ,ops) 140,904 927 76 24 B	W7WG 2,030 35 29 2 A KC7CQU 1,260 35 18 6 A
308,000 2000 77 24 B KRØY (+NET) 80,080 520 77 24 B	N6DA (+NET) 476 17 14 2 A	W6PW (AC6GV,KD6s VWD,YDY, KO6s GD,YP,N6s BWS,LAE,W6VV,	Eastern Washington	N7VGO 1,140 30 19 3 A KB7RRY 432 18 12 4 A
AB5MĞ (+WÁ5YST) 63,394 417 78 24 A	Los Angeles KCSX 163,086 10 59 77 24 A	WB6YGX,DL9NEi,ops) 29,104 214 68 24 B	K7FR 210,056 1364 77 24 A K7MM 142,604 926 77 22 A	K7FI (AA7FT,op)
				CATH (PURIT 1, Up)
K5LP (+NET) 39,984 294 68 11 B KC5OJY (KB2RUB KB5LDR KC5s ALW)	KUSHO 159,544 1036 77 24 A KNSDV 146,300 950 77 24 A	San Joaquin Valley	K7100 23,600 200 59 6 A W7WMO 18,880 160 59 6 A	236,852 1538 77 24 B WA7FOE 216,062 1403 77 24 B
KC5OJY (KB2RUB,KB5LDR,KC5s ALW, AMA,PHJ,RLH,KK5KN,N5UHO,ops)	KN8DV 146,300 950 77 24 A WA78NM 106,400 700 76 17 A	San Joaquin Valley WB6ITM 23,120 170 68 7 Q	K7100 23,600 200 59 6 A	236,862 1538 77 24 B WA7FOE 216,062 1403 77 24 B NB7N 202,972 1316 77 24 B W7LZP 84,238 547 77 14 B
KC5OJY (KB2RUB KB5LDR KC5s ALW) AMA PHJ RLH KK6KN N5UHO, opa) 37. 668 258 73 18 A KB5KTY (+KB5OKF)	KNBDV 146,300 950 77 24 A WA78NM 106,400 700 76 17 A NZ6N 41,580 270 77 13 A WB6NFO 41,472 288 72 23 A KNBLM 37,668 258 73 9 A	San Joaquin Valley WB6ITM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A WBAKS/6 33,004 223 74 13 A	K7IOO 23,600 200 59 6 A W7WMO 18,880 160 59 6 A KI7KT 13,520 130 52 8 A	236,852 1538 77 24 B WA7FOE 216,062 1403 77 24 B WB7N 202,972 1318 77 24 B W7LZP 84,238 547 77 14 B W7OM 80,388 522 77 14 B N7DOE 67,876 478 71 7 B
KC5OJY (KB2RUB KB5LDR KC5s ALW) AMA PHJ RLH KK6KN N5UHO, opa) 37. 668 258 73 18 A KB5KTY (+KB5OKF)	KNBDV 146,300 955 77 24 A W7APSM 106,400 700 76 17 A NZSN 41,580 270 77 13 A WBGNFO 41,472 288 72 23 A KNBLM 37,655 258 73 9 A NSGL 30,360 230 86 16 A K6ICS 27,046 198 69 10 A	San Joaquin Valley W84ITM 23,120 170 68 7 Q KN6MV 79,129 521 76 24 A W8AKS/6 33,004 223 74 13 A KCESL 23,800 175 68 9 A N6YMM 16,390 149 55 9 A	KYIOO 23,600 200 59 6 A WTWMO 18,880 180 59 6 A KITKT 13,520 130 52 8 A KW1K 9,020 110 41 8 A KITAO 28,288 191 74 24 B KTIR (+KITXS,N7CID)	236,852 1538 77 24 B WATFOE 216,062 4403 77 24 B NBTN 202,972 1816 77 24 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B NTDOE 67,876 478 71 78 KTND 14,112 126 56 24 B
KCSOJY (KBZRUB, KBSLDF, KCSs ALW, AMA, PHJ, RLH, KKRN, NSUHO, Opps) 37,668 258 73-16-A KBSKTY (+KBSOKF) 26,676 214 97-14-A KJSVL (+KKSSK) 10,486 197 49-7-A Oklahoma	KNBDV 146,300 950 77 24 A WA79NM 106,400 700 76 17 A KZBN 41,580 270 77 13 A KNBLM 37,668 258 73 9 A KNBLM 37,668 258 73 9 A KNBLM 37,668 258 73 9 A KGLS 27,048 196 89 10 A KGCL 25,882 193 87 16 A KGBATT 25,480 198 85 24 A	San Joaquin Valley W84ITM 23,120 170 68 7 Q KN8MV 79,120 223 74 13 A K06ESL 23,800 175 68 9 A K95YM 16,390 149 55 9 A K8FG 16,240 140 58 19 A K9FW 16,226 133 61 11 A	KYIOO 23,600 200 59 6 A WYWMO 18,880 180 59 6 A KI7KT 13,520 130 52 8 A KW1K 9,020 110 41 6 A KI7AO 28,266 191 74 24 B KYIR (+KI7XS,N7CID) 248,864 1616 77 24 B WYYY (MAZFGA WBFAND WS7Loba)	236,852 1538 77 24 B WAFOE 216,062 4403 77 24 B NBTN 202,972 1816 77 24 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B WTOM 60,388 522 77 14 B WTOM 14,112 126 56 24 B WTFR (AATHWABTIF-KT's INPN.SS. N7s IBR.SEJ WATBR.
KCSOJY (KBZRUB, KBSLDF, KCSs ALW, AMA PHJ.RLH, KKSK.DF, KCSs ALW, 37,668 258 73-18 A KB5KTY (+KB5OKF) 28,876 214 67-14 A KJ5VL (+KKSSK) 10.488 107 49 7 A Oklahoma KSCM 87,734 477 71-24 A NSRXF 53,436 366 73-12 A	NNBDV	San Joaquin Valley W84ITM 23,120 170 68 7 Q KN8MV 79,120 170 68 7 Q W86KS/6 33,004 521 74 13 A KCGESL 23,800 175 68 9 A KSPMM 16,390 149 55 9 A KIBPG 16,240 140 58 19 A NSVWK 16,226 133 61 11 A W6DPD 15,860 130 61 7 A KQBUW 9,870 105 47 18 A	KYIOO 23,600 200 59 6 A WYWMO 18,880 180 59 6 A KITKT 13,520 130 52 8 A KWYK 9,020 110 41 8 A KITAO 28,268 191 74 24 B KYIR (+KI7XS,N7CID) 249,864 1616 77 24 B	236,852 1538 77 24 B WAFOE 216,062 4403 77 24 B NB7N 202,972 1816 77 24 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B NTOOL 67,876 478 71 7 B K7ND 144,112 126 56 24 B WFR (AATHW.ABTIF.KTa.NPN,SS. N73 IBR,9EJ_WAFBAY,
KCSOJY (KB2RUB, KBSLD K, CSS ALW, AMA PHJ.RLH, KKSKN NSUHO,cope). 37,668 258 73-16 A	NNBDV	San Joaquin Valley W84ITM 23,120 170 68 7 Q KN8MV 79,120 75 4 A W8AKS/6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI9PG 16,240 140 58 19 A KI9PG 16,240 140 58 19 A KI9PD 15,860 130 61 7 A KQGUW 9,870 105 47 18 A ACGLT 9,202 107 43 24 A	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KI7KT 13,520 130 52 8 A KI7KT 24,520 130 52 8 A KI7AO 28,268 191 74 24 B K7IR (+KI7XS,N7CID) 24,854 1616 77 24 B WYYY (MAZEGA,WBZAVD, WSZ),000) 243,320 1580 77 24 B W3AB (+ops) 94,424 536 74 12 B Idaho	236,852 1538 77 24 B WAFOE 216,062 4403 77 24 B NB7N 202,972 1816 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B WTOM 60,388 522 77 14 B WTOM 144,112 126 56 24 B WTFR (AATHW ABTIF-KTS NPN,SS, N73 IBR,SEJ,WA7BLY,VØAX, WAØBJY,opb) 77,000 500 77 24 B KBTUXP (KBTYTI,KCTMNY,Opb) 17,748 153 58 21 A
KCSOJY (KBZRUB, KBSLD) K CSS ALW, AMA PHJ RLH, KKSKN NSUHO, Opps). 37,668 258 73-16 A KBSKTY (+KBSOKF) KJSVL (+KKSSK) 10.488 107 49 7 A OKlahoma KSCM 67,734 477 71 24 A NSRXF 53,436 366 73-12 A NSRMP 28,664 202 66 15 A WSTZN 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KGSASD 17,270 157 55 10 A	KNBDV 146,300 950 77 24 A WAPSNM 106,400 700 76 17 A NZBN 106,400 270 77 13 A WBONFO 41,472 286 72 23 A KNBLM 37,668 256 73 9 A KNBLM 37,668 256 73 9 A KNBLM 200,500 200 56 16 A KBCL 25,802 199 36 7 16 A KBCL 25,802 199 6 55 24 A WASSL 22,932 182 63 11 A WASSL 22,720 190 71 12 A WASSLY 18,880 180 59 10 A KNBDR 18,724 151 52 5 A KNBPQ 15,660 135 58 13 A KNBPQ 15,060 102 45 12 A	San Joaquin Valley W84ITM 23,120 170 68 7 Q KN8MV 79,120 52 76 24 A W86AKS/6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI9FG 16,240 140 58 19 A KI9FG 16,240 105 47 18 A KOGUW 9,870 105 47 18 A ACGLT 9,202 107 43 24 A WC6H 296,552 1951 78 24 B WBGYIK 99,104 652 76 23 B	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KI7KT 13,520 130 52 8 A KI7KT 13,520 130 52 8 A KI7AC 28,268 191 74 24 B KYIR (+KI7XS,NTCID) 24,8564 1616 77 24 B WYYY (MATEGA,WB7XD,WS7),003) 243,320 1580 77 24 B W3AB (+opp) 94,424 536 74 12 B Idaho K2PO/7 96,944 664 73 24 Q	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B WTOM 60,388 522 77 14 B WTOM 14,112 126 56 24 B WTFR (AA7RW,AB7IF,K7s NPN,SS, N7s IRR,SE,J WA7BAY, NØAX, WAØBJ,Y,Ops) 77,000 500 77 24 B KBTUXP (KBTYTJ,KC7MNY,Ops)
KCSOJY (KBZRUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKNN, NSUHO,pope). 37,668 258 73,16 A. 37,668 258 73,16 A. KBSKTY (+KBSKK) 10,488 107, 49 7 A. Oklahoms KSCM 87,734 477 71 24 A. NSRXF 53,436 366 73 12 A. NSRXF 53,436 366 73 12 A. NSRXF 21,406 139 77 18 A. KBST3N 21,406 139 77 18 A. KBST3N 21,402 141 71 19 A.	KNBDV 146,300 950 77 24 A WAPSNM 106,400 770 76 17 A NZBN 106,400 270 77 13 A WBBNFO 141,472 286 72 23 A KNBLM 37,668 256 73 9 A KNBLM 37,668 256 73 9 F A KBLM 25,568 290 50 8 16 A KBLS 25,400 196 55 24 A WABSH 22,932 182 63 17 A WABSH 22,932 182 63 17 A WABSH 22,932 182 63 17 A WABSH 18,880 180 59 10 A KNBDR 18,724 151 52 5 A KNBPO 15,660 135 58 13 A KNBPB 9,180 102 45 12 A KQBAG 8,944 104 43 10 A KGL	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KISPG 16,240 140 58 19 A KISPG 16,240 105 47 18 A ACGLT 9,202 107 43 24 A WCGH 296,552 1951 78 24 B WBGYIK 99,104 652 76 23 B KGLRN 52,500 350 75 15 B KGLRN 52,500 350 75 15 B KGLRN 52,500 350 75 15 B	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KITKT 13,520 130 52 8 A KITKT 34,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,NTCID) 244,864 1618 77 24 B WYYY (MATEGA,WB7ADV,MS71,000) 243,864 1618 77 24 B WYYY (MATEGA,WB7ADV,MS71,000) 243,864 1618 77 24 B WYASAB (+6008) 94,424 536 74 12 B Idaho K2PO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A	236,852 1538 77 24 B WATFOE 216,062 4403 77 24 B WATFOE 2403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B WTOM 60,388 522 77 14 B WTOM 14,112 126 56 24 B WTFR (AATHW.ABTIF.KTs.NPN.SS. NTS IBR.SEJ_WATBAY,VØAX. WAØRJY.ops) 77,000 500 77 24 B KBTUXP (KBTYTS,KCTMMY.ops) 17,708 153 58 21 A WATNFE (+WATTTD) 15,732 138 67 14 A Wyoming
KCSOJY (KBZRUB, KBSLD) K CSs ALW, AMA_PHJ.RLH, KKSKN NSUHO,opps). 37,668 258 73,16 A KBSKTY (+KBSOKF) 10,486 107 49 7 A OKlahoma KSCM 97,794 477 71 24 A NSRXF \$3,436 366 73 12 A NSRXF \$3,436 366 73 12 A NSRXF 28,664 202 66 15 A WSTZN 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NXRD 8,944 104 43 7 A WAGOTU/S 5,412 66 41 4 A WSCCP (AH9B,0D)	NNBDV	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,120 170 68 7 Q W8AKKS 6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KIGPO 16,240 140 58 19 A KIGPO 16,240 140 58 19 A KIGPO 15,860 130 61 7 A W6DPD 15,860 130 61 7 A KOGUW 9,870 105 47 16 A ACGLT 9,202 107 43 24 A WCGH 296,552 1951 78 24 B KGERN 52,500 350 75 15 B KGERN 28,432 29 69 24 B KGGF 2,432 38 32 8 B	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KITKT 13,520 130 52 8 A KITKT 34,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,NTCID) 244,864 1616 77 24 B WYYY (MATEGA,WB7ADV,MS71,000) 243,320 1580 77 24 B WY3AB (+6008) 94,424 536 74 12 B Idaho K2PO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AA7TUN 99,000 660 75 24 A AA7TT 38,624 284 68 14 A AA7TF 38,624 284 68 14 A AA7TF 38,624 285 61 3 A	236,852 1538 77 24 B WAFOE 216,062 4403 77 24 B WAFOE 246,062 4403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 17 18 B WTLZP 84,238 547 14 B WTLZP 84,238 153 58 21 A WATNEE (*WATTID) 15,732 138 67 14 A Wyoming WC7S 39,902 281 71 16 Q
KCSOJY (KBZRUB, KSBLOP, KCSs ALW, AMA_PHJ,RLH, KKSKN, NSUHO,Opps). 37,668 258 73 16 A. S.	KNBDV 146,300 950 77 24 A WA7SNM 106,400 770 76 17 A NZBN 106,400 270 77 13 A WB6NFO 141,472 286 72 23 A KNBLM 37,668 256 73 9 A KNBLM 37,668 256 73 9 A KNBLM 25,668 290 58 16 A K6ICS 27,048 196 99 10 A K6ICS 27,048 196 99 10 A K96ZH 25,580 198 55 24 A K96ZH 25,580 198 55 24 A K96ZH 22,932 182 51 1 A K96ZH 29,932 182 51 1 A K96ZH 29,932 182 51 1 A K96ZH 10,000 18,724 151 52 15 A K96ZH 10,000 18,724 151 52 1 A K96ZH 10,000 18,724 151 52 1 A K96ZH 10,000 18,724 151 52 1 A K96ZH 10,000 18,724 151 52 5 A K96ZH 10,000 15,650 135 5 A K96ZH 10,000 15,650 155 5 3 5 A K96ZH 10,000 15,650 155 27 5 A K96ZH 10,000 15,650 155 27 5 A K96ZH 10,000 15,650 152 27 5 A K96ZH 10,000 150 28 25 2 A K96AX 1,080 30 18 7 A	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,192 521 76 24 A W8AKS/6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI6PC 16,240 140 58 19 A KOEVW 9,870 105 47 16 A KOEUW 9,870 105 47 16 A ACGLT 9,202 107 43 24 A WC6H 296,562 1951 76 24 B KGERN 52,500 350 75 15 B KGERN 52,500 350 75 15 B KGEFF 2,432 38 32 8 B NeNB (+NSMU) 232,386 1509 77 24 B	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KITKT 13,520 130 52 8 A KITKT 34,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,NTCID) 244,864 1616 77 24 B KYJY (HAZEGA,WBZAVD,WSZ),000) 243,320 1580 77 24 B WYZY (HAZEGA,WBZAVD,WSZ),000) 243,320 1580 77 24 B Idaho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUF 38,624 284 68 14 A AATUF 38,624 285 61 3 A KKYA 28,670 235 61 3 A KJTFE 14,152 116 61 16 A KJYSZY 13,000 125 52 8 A	236,852 1538 77 24 B WAFFOE 216,062 4403 77 24 B WAFFOE 216,062 4403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 17 18 B WTLZP 84,238 547 17 18 B WTLZP 84,238 187 187 187 187 187 187 187 187 187 18
KCSOJY (KBZRUB, KSELD PK, CSS ALW, AMA_PH_JRLH, KKSKN NSUHO,opps). 37.668 258 73 16 A KBSKTY (+KBSOKF) 10.498 107 49 7 A Oklahoma KSCM 67.734 477 71 24 A NSRXF 58.436 366 73 12 A NSRXF 28.664 202 66 15 A WSTZY 21,06 139 77 18 A KBSSTS 20,022 14 77 19 A KBSSTS 20,022 14 77 19 A KBSSTS 20,022 14 71 19 A KBSSTS 20,022 14 71 19 A KBSSTS 20,022 14 71 14 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KBSBOB 117,656 764 77 14 B	KNBDV 146,300 950 77 24 A WA78NM 106,400 770 76 17 A NZBN 106,400 270 77 13 A WB6NFO 141,472 286 72 23 A KNBLM 37,668 256 73 9 A KNBLM 37,668 256 73 9 A KNBLM 37,668 256 73 9 A KNBLM 25,440 196 99 10 A KB61S 27,044 196 99 10 A KB61S 27,044 196 99 10 A KB61S 27,044 198 39 10 5 24 A KB61B 22,580 198 55 24 A KB61B 22,720 180 71 12 A KB61B 22,720 180 71 12 A KM61B 22,720 180 71 12 A KM61B 18,724 151 62 15 A KM61B 18,724 1	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,192 521 76 24 A W8AKKS 6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI6PC 16,240 140 58 19 A KIGVK 16,226 133 61 11 A W6DPD 15,860 130 61 7 A KOGUW 9,870 105 47 16 A ACGLT 9,202 107 43 24 A WC6H 296,552 1951 78 24 B WBGYIK 99,104 652 76 23 B KGLRN 52,500 350 75 15 B KDBWPK 28,842 209 69 24 B KGGF 2,432 38 32 8 B N6NB (+N6MU) 232,386 1509 77 24 B WAGTKV (+KD6KKP) 147,224 956 77 24 B	KYIOO 23,600 200 59 6 A WTWMO 18,889 160 59 6 A KITKT 13,520 130 52 8 A KITKT 34,520 130 52 8 A KITKT 34,520 130 52 8 A KITKT 34,520 130 52 8 A KITAO 28,268 191 74 24 B KTJR (+KITXS,HTCID) 244,854 1616 77 24 B WYYY (MATEGA,WBTAND,WST),000) WYYY (MATEGA,WBTAND,WST),000) WYABB (+008) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUN 99,000 660 75 24 A AATUT 38,624 284 68 14 A AATUT 38,624 284 68 14 A AATUT 134,524 116 61 16 A KIYA 28,670 235 61 3 A KJTFE 14,152 116 61 16 A KJTSZY 13,000 125 52 8 A WBTCYO 7,676 101 38 6 A	236,852 1538 77 24 B WAFFOE 216,062 4403 77 24 B WAFFOE 216,062 4403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 17 18 B WTLZP 84,238 547 17 18 B WTLZP 84,238 187 187 187 187 187 187 187 187 187 18
KCSOJY (KBZRUB, KSBLOP, KCSs ALW, AMA_PHJ,RLH, KKSKN, NSUHO,Oppe). 37,668 258 73,16. A. 37,668 258 73,16. A. KBSKTY (+KBSOKF) 10,488 107, 49. 7. A. KJSVL (+KKSSK) 10,488 107, 49. 7. A. OKIAhoma KSCM 67,734 477 71 24 A. NSRXF 53,436 366 73 12 A. NSRXF 23,436 366 73 12 A. NSRXF 21,406 139 77 18 A. KBSSTS 20,022 141 71 19 A. KBSSTS 20,022 141 71 14 A. WSCCP (AH9B,op) 303,226 1969 77 24 B. KSYAA 193,496 1273 76 24 B. KBSCA 117,656 764 77 14 B. WSHTK (N1UOC,KBSQXJ,NSS FF,HEL, UBY,WBSOQX,KAORNY,ops)	KNBDV 146,300 950 77 24 A WAPSNM 106,400 700 76 17 A NZBN 11,580 270 77 13 A WBBNFO 141,472 286 72 23 A KNBLM 37,665 256 73 9 A NBGL 256,580 198 95 10 A KBLM 256,580 198 95 12 A KBLM 256,580 198 95 12 A KBLM 188 10 102 45 12 A KBLM 188 10 102	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,192 521 76 24 A W8AKS/6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI6PC 16,240 140 58 19 A KOEVK 16,226 133 61 11 A W6DPD 15,860 130 61 7 A KOEUW 9,870 105 47 16 A ACGLT 9,202 107 43 24 A WC6H 296,562 1951 78 24 B W86YIK 99,104 652 76 23 B KGLRN 52,500 350 75 15 B KDBWPK 28,842 209 69 24 B KGGF 2,432 38 32 8 B NMB (+NGMU) 232,386 1509 77 24 B WAGTKY (+KD6KKP) 147,224 956 77 24 B NGTNW (+KD6KKP) 147,224 956 77 24 B NGTNW (+KOEKKP) 102,102 663 77 20 B	KYIOO 23,600 200 59 6 A WYWMO 18,889 160 59 6 A KITKT 13,520 130 52 8 A KITKT 34,520 130 52 8 A KITKT 34,520 130 52 8 A KITKT 34,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,H7CID) 244,864 1616 77 24 B WYYY (MAYEGA,WB7AD,WS7),003) WYYY (MAYEGA,WB7AD,WS7),003) WYAGAB (+008) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 0 WYZRC 202,202 137 77 24 A AA7TUN 99,000 160 75 24 A AA7TUR 38,624 284 68 14 A AA7TF 38,624 284 68 14 A AA7TF 14,152 116 61 16 A KIYA 28,670 235 61 3 A KJ7FE 14,152 116 61 16 A KJ7SZY 13,000 125 52 8 A WB7CYO 7,676 1011 38 6 A	236,852 1538 77 24 B WAFFOE 216,062 403 77 24 B WAFFOE 216,062 403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 17 18 WTLZP 84,238 547 17 17 B WTLZP 84,238 87 18 87
KCSOJY (KBZRUB, KSELD R, CSS ALW, AMA_PHJ,RLH, KKSKN, NSUHO,Oppe). 37,668 258 73,16. A KBSKTY (+KBSOKF) 87,668 258 73,16. A KJSVL (+KKSSK) 10,488 107, 49-7. A Oklahoma KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 25,436 139 77 18 A KBSST9 20,022 141 71 19 A KBSST9 20,022 141 71 14 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KBSBOB 117,656 764 77 14 B WSHTK (N1UOC,KBSOXJ,N5s FF,HEL, UBY,WBSOOXJ,KAORNY,Ops) 83,468 542 77 24 A KBSRBK (+KBSWOR,KOSSCM),KSSAM)	KNBDV 146,300 950 77 24 A WAPRNU 106,400 700 76 17 A NZBN 11,580 270 77 13 A WBONFO 141,472 286 72 23 A KNBLM 37,665 256 73 9 A KNBLM 37,665 256 73 9 A KNBLM 37,665 256 73 9 A KNBLM 25,580 198 36 71 6 A KBCL 25,580 198 55 24 A KBCL 161 20,580 198 25 24 A KBCL 36 100 102 45 12 A KBCL 161 100 102 45 12 A KBCL 160 100 100 100 100 100 100 100 100 100	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MV 79,192 521 76 24 A W8AKS/6 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A K16PC 16,240 140 58 19 A K16PC 16,250 130 61 7 A K06UW 9,870 105 47 16 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YIK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 29 69 24 B K16EF 2,432 38 32 8 B N6NB (+N6MU) 232,386 1509 77 24 B WA6TKY (+KD6KKP) WA6TKY (50,000 100 663 77 20 B K86HRB (KC6UCN,N6s PLE,YYT,ops) K86HRB (KC6UCN,N6s PLE,YYT,ops) K86HRB (KC6UCN,N6s PLE,YYT,ops) K86HRB (KC6UCN,N6s PLE,YYT,ops) 22,806 181 631 2 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 160 59 6 A KITKI 13,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,HTCID) 248,864 1618 77 24 B WYYY (MAYEGA,WBZYNO,WSY),000) WYZY (MAYEGA,WBZYNO,WSY),000) WYZRC 243,320 1580 77 24 A WSAB (+008) 94,424 536 74 12 B Idaho KZPO/7 96,944 564 73 24 Q WYZRC 202,202 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UT 38,624 284 68 14 A AA7UTF 38,624 284 68 14 A AA7UTF 14,152 116 61 16 A KITA 28,670 235 61 3 A KJTFE 14,152 116 61 16 16 A KYZY 13,000 125 52 8 A WBTCYO 7,676 101 38 6 A KC7HHQ KBZFLFO,KITFO,0ps)	236,852 1538 77 24 B WAFFOE 216,062 403 77 24 B WAFFOE 216,062 403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 17 18 B WTLZP 84,238 55 56 24 B WTLZP 84,238 87 17 18 87 18 18 18 18 18 18 18 18 18 18 18 18 18
KCSOJY (KBZRUB, KSBLOP, KCSS ALW, AMA_PHJ,RLH, KKSKN, NSUHO,Oppe). 37,668 258 73,16. A 75,668 258 73,16. A KBSKTY (+KSBK) 10,488 107, 49. 7. A Oklahoma KSKM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 53,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A NSXRD 6,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 30,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 77 14 B WSHTK (N1UOC, KBSQXJ, NSS FF, HEL, UBY, WBSQOX, KAORNY, ops) 83,468 52 77 24 A KBSRBX (+KBSWQR, KCSEOB, NSSAM) 80,850 539 75 24 A WD@GTY (+WBSZWW)	Neg	San Joaquin Valley W86ITM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86KS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A K16PG 16,240 130 61 7 A K08UW 9,870 105 47 18 A K08UW 9,870 105 47 18 A K08UM 9,870 105 47 18 A K08UM 9,870 105 47 18 A K08UM 9,870 130 350 75 15 B K0EWPK 28,842 209 69 24 B K06F 2,432 36 32 8 B N6NB (+N6MU) 232,386 1509 77 24 B WA6TKV (+K06KKP) 167,224 956 77 24 B K16HR (KCGUCN,NS PLE,VYT,ops) 228,266 181 63 12 A N6EE (+NET) 18,500 125 74 4 A Santa Barbara	KYIOO 23,600 200 59 6 A KYTWIO 18,889 160 59 6 A KITKI 13,520 130 52 8 A KITAO 28,268 191 74 24 B KYIR (+KITXS,H7CID) 244,854 1616 77 24 B WYYY (MATCGA,WB7ADU,WS7),003) WYYY (MATCGA,WB7ADU,WS7),003) WYAGB (+008) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUN 99,000 660 75 24 A AATUT 38,624 284 68 14 A AATUT 38,624 284 68 14 A AATUTE 14,152 116 61 16 A KITAO 28,670 235 61 3 A KJTFE 14,152 116 61 16 1 6 KYSZY 13,000 125 52 8 A WBTCYO 7,676 101 38 6 A KC7HHQ MSZOW 29,568 224 66 12 B WTUQ (KBTLFO,KITFO,0ps) ABTCZ (+N0ZOM)	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 547 77 14 B WTOM 80,388 522 77 14 B WTOM 60,388 522 77 14 B WTOM 14,112 126 56 24 B WTFR (AATBWA, ABTIF, KT& INFN, SS, NT2 IRR, BEJ, WATBAY, NØAX, WAØRJY, ops) 7,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY, ope) 17,748 153 58 21 A WATNFE (*WATTTJ) 15,732 136 57 14 A Wyoming WC7S 39,902 281 71 16 Q N7MZW 100,320 660 76 24 A KDTAX 60,606 481 63 15 A AATYH 30,222 219 69 21 A NG7O 8,692 82 53 7 A NG7O 8,692 82 53 7 A NG7U 4,693 59 41 24 A WDTL 154,462 1003 77 19 B
KCSOJY (KBZRUB, KSBLOP, KCSS ALW, AMA_PHJ,RLH, KKSKN, NSUHO,Oppe). 37,668 258 73,16-A. 37,668 258 73,16-A. KJSVL (+KKSK) 10,488 107, 49-7-A. Oklahoma KSKY 53,436 366 73 12-A. NSRXP 23,436 366 73 12-A. NSRXP 21,406 139-77-18-A. KJSVZ 14-06 11-0	KNBDV 146,300 950 77 24 A WAPRAW 106,400 700 76 17 A NZBN 106,400 270 77 13 A WBBNFO 141,472 286 72 23 A KNBLM 37,665 256 73 9 A NBGLE 25,660 390 56 16 A KGICS 27,046 196 99 10 A KGICS 27,046 196 95 12 A KGICS 27,046 196 95 14 A KGICS 27,046 196 95 14 A KGICS 27,046 160 59 10 A KGICS 16 16 16 16 16 16 16 16 16 16 16 16 16	San Joaquin Valley W86ITM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKSV 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A K16PG 16,540 110 61 7 A K06UW 9,870 105 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 250 75 15 B K06PK 28,42 209 69 24 B K06F 2,432 36 32 6 B N6NB (+N6MU) 232,386 1509 77 24 B WA6TKV (+KDEKKP) 147,222 956 77 24 B N6TNW (+N6TAN) 102,102 663 77 20 B K86HRB (KC6UCN,N6s PLE,VYT,ops) K86HRB (KC6UCN,N6s PLE,VYT,ops) K8E(+NET) 18,500 125 74 4 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 160 59 6 A KYTKI 13,520 130 52 8 A KITKI 13,520 130 52 8 A KITAO 28,288 191 74 24 B KYIR (+KITXS,HTCID) 248,864 1618 77 24 B WYYY (MATEGA,WBFAND,WST),000) 243,320 1580 77 24 A WYAS (+Oops) 94,424 536 74 12 B Idaho KZPO/7 96,944 564 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUN 99,000 660 75 24 A AATUT 38,624 284 68 14 A AATUT 38,624 284 68 14 A AATUT 38,624 285 61 3 A KITA 28,670 235 61 3 A KITE 14,152 116 61 16 A KYSZY 13,000 125 52 8 A WBTOYO 7,676 101 38 6 A KC7HHQ 65,816 433 76 24 B WBTNSW 29,588 224 66 12 B WTUQ (KBTLFO,KITFO,ops) ABFCZ (+N0ZQM)	236,852 1538 77 24 B WATFOE 216,062 403 77 24 B NBTN 202,972 1816 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 62 4 B WTLZP 84,238 87 14 Z WADRJY,0p3) 17,748 153 58 21 A WATNEE (*WATTID) 15,732 138 67 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KD7RX 60,606 481 63 15 A ATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A NATOL 15,438 59 41 24 A WDTL 15,462 1003 77 19 B KBTM 46,500 310 75 12 B N7PLJ (+KC7FIM)
KCSOJY (KBZRUB, KBSLD K, CSS ALW, AMA_PHJ,RLH, KKSKN, NSUHO,pope). 37,668 258 73,16. A KJSKY (+KBSOKF) 10,488 107, 49. 7. A Oklahoma KSKY (+KSSK) 10,488 107, 49. 7. A Oklahoma KSCM 67,734 477, 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,496 139, 77 18 A KBSSTS 20,022 141 71 19 A KCSASD 17,270 157, 55 10 A KBSSTS 20,022 141 71 19 A KCSASD 17,270 157, 55 10 A NSRD 6,344 104 43 7 A WAGOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 30,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSSAB 48,468 542 77 24 A KBSRBX (+KBSWQR,KOSEOB,NSSAM) 80,850 59 75 24 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW,NSMUK,WBSCME) 28,542 213 67 15 A	KNBDV 146,300 950 77 24 A WAPRAW 106,400 14,500 700 76 17 A NZBN 141,560 270 77 13 A KNBLM 37,665 256 73 9 A KNBLM 37,665 256 230 56 16 A KGICS 27,046 196 99 10 A KGICS 27,046 196 99 10 A KGICS 27,046 196 99 10 A KGICS 27,046 196 95 10 A KGICS 27,046 196 99 10 A KGICS 27,046 196 95 12 A KGICS 27,046 196 95 14 A KGICS 27,046 196 95 14 A KGICS 27,046 196 95 14 A KGICS 27,046 160 59 10 A KGICS 16 160 59 10 A KGICS 16 16 16 16 16 16 16 16 16 16 16 16 16	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86KS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A K06UW 9,870 105 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 78 24 B W86YK 99,104 652 76 23 B K06LRN 52,500 350 75 15 B K06WPK 28,842 209 69 24 B K06FW 28,842 209 69 24 B K06FW 23,23,386 1509 77 24 B WA6TKV (+K06KKP) 147,224 956 77 24 B W66TKV (+K06KKP) 16,700 23,386 1509 77 24 B K06HB (KCGUCN,NSS PLE,VYT,0ps) 22,806 181 63 12 A N6EE (+NET) 18,500 125 74 4 A Santa Barbara N6AZR 30,680 236 65 2 Q W86JKF 79,050 527 75 15 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 180 59 6 A KYTKI 13,520 130 52 8 A KYTKI 13,520 130 72 24 B KYTR (+KIYXS,NTCID) 248,884 1616 77 24 B WYYY (WATEGA,WBTAVID,NST,10ba) 243,320 1580 77 24 B W3A8 1+0pb) 94,424 8536 74 12 B Idaho K2PO/7 96,944 854 73 24 Q W7ZRC 202,202 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UN 99,000 660 75 24 A AA7UN 99,000 660 175 24 A KYTA 28,670 235 61 3 A KYTA 28,670 235 61 3 A KYTA 14,152 116 61 16 A NYSZY 13,000 125 52 8 A WBTCYO 7,676 101 38 6 A KC7HHQ 65,816 433 76 24 B WBTNSW 29,568 224 66 12 B WYUQ (KBTLFO,KITFO,0ps) WTUQ (KBTLFO,KITFO,0ps) ABFCZ (+N0ZQM) 24,420 185 66 10 A NYNQO (+KITKF,NTAYL) 24,080 172 70 24 A	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 24 B WTFF (AATHW, ABTIF, KTs, INFN, SS, NTS, IRR, SEJ, WATBW, NGAX, WAGRJY, OPS) 17,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY, OPS) 17,700 500 77 24 B KBTUXP (KBTYTJ, KCTMNY, OPS) 17,708 153 58 21 A WANNFE (*WATTTB) 15,732 138 57 14 A WYOMING WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KDTMX 100,320 660 76 29 21 A NGTO 8,692 82 53 7 A NGTO 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (+KC7FIM) 25,296 204 62 11 A 8 Michigan
KCSOJY (KBZRUB, KBSLD K, CSS ALW, AMA_PHJ,RLH, KKSKN, NSUHO,pope). 37,668 258 73,16 A KJSKTY (+KBSOKF) 10,488 107 49 7 A OKIANOME KSKYY (+KKSK) 10,488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 23,436 39 77 18 A KGSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A KGSASD 17,270 157 55 10 A NSXRD 63,44 104 43 7 A WAGOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAK (NTUOC, KBSOXJ, NSS FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, NSSAM) 80,850 539 75 24 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSEWW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NET) 41,184 286 72 19 A KBSIRL (+KCSEWW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NET) 41,184 286 72 19 A KBSIRL (+KCSEWW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NET) 41,184 73 24 A	KNBDV 146,300 950 77 24 A WA75NM 106,400 700 76 17 A NZEN 41,580 270 77 13 A WB6NFO 41,472 286 72 23 A KNBLM 37,658 258 73 9 A NG6L 30,360 230 56 16 A KGICS 27,046 196 99 10 A KGZCL 25,869 198 67 16 A KGCS 27,046 198 99 10 A KGZCL 25,890 198 57 16 A KGBATT 25,450 198 95 12 A KMBRTB 22,720 190 77 12 A KMBRTB 22,720 190 77 12 A KMBRTB 21,720 160 59 10 A KMBRDQ 18,724 161 82 15 A KMBRDQ 18,724 161 82 15 A KNBRQ 18,724 161 72 54 12 A KOGAX 1,080 30 18 7 A KGEAC 1,400 28 25 2 7 A KOGAX 1,080 30 18 7 A AB6FO 235,928 1532 77 24 B WGUE (N6DLU,op) 201,278 1307 77 23 B KCDI 177,394 1167 76 24 B NSSR 28,792 236 61 2 B NSSTR (±KESSLW,EGE) NEXTT (±WB2ODH,KC6KUP,KD6NDX, KES CTI,ILX,NBS RMJ,ZII) 91,784 596 77 24 A KM6SR (±KESSLW,EGEI) KKE6WEH (KD6CWU,KEGGHX,NBS,WZR,	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A K06BUW 9,870 105 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 78 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B K06WPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K06WPK 28,842 209 69 24 B K6LRN 52,500 360 75 15 B K06WPK 28,842 209 69 24 B K6LRN 52,500 360 75 15 B K06WPK 28,842 209 69 24 B K6LRN 52,500 360 77 24 B WA6TKV (+K06KKP) 147,224 956 77 24 B WA6TKV (+K06KKP) 16,500 37 20 B K6BHRB (KCGUCN,NSS PLE,VYT,ops) 22,806 181 63 12 A Santa Barbara N6AZR 30,680 236 65 20 Q W86JKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A KN6WV 50,666 329 77 15 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 180 59 6 A KYTKT 13,520 130 52 8 A KWIK 9,020 110 41 8 A KITAC 28,288 191 74 24 B KYIP (+KIYXS,N7CID) 248,884 1618 77 24 B WYYY (WA7EGA,WBTAVD,WS7LODS) 243,320 1580 77 24 B W3A8 1+ops) 94,424 536 74 12 B Idaho K2PO/7 96,944 556 73 24 Q W7ZPC 202,202 1313 77 24 A AA7UN 90,000 680 75 24 A AA7UN 90,000 680 75 24 A AA7UN 98,670 235 61 3 A KK7A 28,670 235 61 3 A KK7A 28,670 235 61 3 A KK7FE 14,152 116 61 16 A KK7FE 14,152 116 61 16 A KK7FE 14,152 116 61 16 A KK7HO 65,816 433 76 24 B WBTVNSW 29,568 224 66 12 B WYUQ (KBTLFO,NFT) WBTCYC (+NFT,FT,FT) XREY 76,650 511 75 22 A ABFCZ (+NGZOM) 24,420 185 66 10 A NTNQO (+KITKF,N7AYL) 24,080 172 70 24 A MONTANB KYLUH 160,360 1055 76 22 A MONTANBA	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 24 B WTFF (AATHW, ABTIF, KTs, INPN, SS, NTS, IRR, SEJ, WATBW, NGAX, WAGRJY, OPS) 17,700 500 77 24 B KBTUXP (KBTYTJ, KCTMNY, OPS) 17,708 153 58 21 A WATNFE (*WATTTD) 15,732 138 57 14 A WYOMING WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KDTAX 60,606 481 63 15 A AATYH 30,222 219 69 21 A NGTO 8,692 82 53 7 A NGTO 8,692 82 53 7 A NTIUE 4,538 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (+KC7FIM) 25,296 204 62 11 A 8 Michigan WBERN 32,850 219 75 24 Q KBLJQ 21,760 170 64 21 Q
KCSOJY (KBZRIJB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (+KBSOKF) 28,676 214 97,14 A KJSVL (+KKSSK) 10,488 107, 49 7, A Oklahoma KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 53,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A NSXRD 8,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A WSCCP (AHBB,OP) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC,KBSQXJ,NSS FF,HEL, UBY,WBSOQX,KAQRNY,Ops) 83,468 542 77 24 A KBSRBX (+KBSWQR,KCSEQB,NSSAM) 80,856 539 75 24 A WDØGTY (+WBZWW) 59,70 398 75 22 A WDØGTY (+WBZWW) 59,70 398 75 22 A WGSC (+NET) 41.184 286 72 19 A KBSIRL (+KCSBW,NSWUK,WBSCME) 28,542 213 67 15 A KBIZO/5 (+NILPIN,NSWE) 28,644 184 73 24 A WSPAA (KBSTOT,KJOW,Ops) 17,490 185 53 24 A	KNBDV 146,300 950 77 24 A WA7FSNM 106,400 700 76 17 A NZEN 41,580 270 77 13 A WB6NFO 41,472 286 72 23 A KNBLM 37,658 258 73 9 A NGGL 30,360 230 56 16 A KGICS 27,046 196 99 10 A KGZCL 25,869 198 67 16 A KGCS 27,046 199 89 10 A KGZCL 25,890 198 57 16 A KGACH 22,932 182 53 11 A KMBTB 22,720 190 77 12 A KMBTB 22,720 190 77 12 A KMBTB 22,720 190 77 12 A KMBTB 21,720 160 59 10 A KNBRO 18,724 161 82 15 A KNBRO 1,660 135 58 13 A NBDBL 9,180 102 45 12 A KNBRO 1,660 135 58 13 A NBDBL 9,180 102 45 12 A KOGAK 1,080 30 18 7 A KGEAK 1,400 28 25 2 7 5 A NGIC 1,400 28 25 2 7 A KOGAX 1,080 30 18 7 A B6FO 235,928 1532 77 24 B WGUE (NGDLU,op) 201,278 1307 77 23 B KGDI 177,394 1167 76 24 B NSSR 25,792 236 61 2 B NSSTR (+KESSLW-EGE) NSTT (+WB2ODH,KC6KUP,KD6NDX, KE6S CTI,ILX,NBS RMJ,ZII) 91,784 596 77 24 A KMESR (+KESSLW-EGE) 11,172 114 49 20 A	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A N6VPM 16,390 130 61 7 A W60PD 15,860 130 61 7 A KOBUW 9,870 105 47 18 A ACGLT 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B KD6WPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B KD6WPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B KD6WPK 28,842 209 69 24 B K6LRN 52,500 350 77 14 B K06FK (KC6EKKP) 147,224 956 77 24 B WA6TKV (+K06KKP) 167,224 956 77 24 B M6TNW (+N6TNX) 102,102 663 77 20 B K6BHRB (KCGUCN,NSS PLE,VYT,ops) 28,066 181 63 12 A Santa Barbara N6AZR 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A KN6WV 67,660 229 77 15 A K06AZ 11,342 107 53 17 A K06ZE 1,324 107 53 17 A K06ZE 1,324 107 53 17 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 160 59 6 A KYTKI 13,520 130 52 8 A KYTKI 14,520 150 77 24 B WYYY (MATEGA,WB7ATO, WS7),003) WYZY (MATEGA,WB7ATO, WS7),003) WYASB (+008) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUR 38,624 284 68 14 A AATUR 38,624 284 68 14 A AATUF 136,24 284 68 14 A AATUF 136,24 284 68 14 A AATUF 136,24 286 68 14 A AATUF 136,24 286 68 14 A AATUR 28,670 235 61 3 A KJ7FE 14,152 116 61 16 A KYZY 13,000 125 52 8 A WB7CYO 7,676 101 38 6 A KC7HHQ 65,816 433 76 24 B WB7NSV 29,568 224 66 12 B WYUQ (KB7LFO,KITFO,0ps) YOUG (KB7LFO,KITFO,0ps) ABTCZ (+N0ZQM) 24,480 172 70 24 A MONTAINA MONTAINA KYLUH 160,360 1055 76 22 A	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 27 71 4 B WTFR (AATHW_ABTIF_KTs INPN,SS, NTS 18R,SEJ_WATBAY, MØAX, WAØRJY,OpS) 77,000 500 77 24 B KBTUXP (KBTYTJ,KCTMNY,OpS) 17,748 153 58 21 A WATNIFE (*WATITD) 15,732 138 57 14 A WYOMING WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KD7RX 60,666 481 63 15 A KD7RX 60,666 481 63 15 A AATYH 30,222 219 69 21 A NG7Q 8,692 82 53 7 A NTIUE 4,538 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (+KC7FIM) 25,296 204 62 11 A 8 MICHIGAN WERN 32,850 219 75 24 Q KBLJQ 21,760 170 64 21 Q WA9YEF 4,092 62 33 11 Q
KCSOJY (KBZRIJB, KBSLD) KCSS ALW, AMA_PHJ,RLI, KKSKN,NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107, 49,74 KJSVL (-KKSSK) 10,488 107, 49,74 KSCM 67,734 477, 71 24 A NSRXF 53,436 366 73 12 A NSRXF 53,436 366 73 12 A NSRXF 53,436 366 73 12 A NSRXF 12,406 139 77 18 A KBSTS 20,022 141 71 19 A KCSASD 17,270 18,270 18,	NebDV	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 62 76 23 B K6LRN 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 19,104 652 76 23 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 77 14 B N6NB (+N6MU) 232,336 1509 77 24 B WA6TKV (+K06KKP) 11 72,224 956 77 24 B W6TKF 79,050 663 77 20 B K6EGLUN,NSS PLE,VYT,0ps) 22,806 181 63 12 A Santa Barbara NA2R 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A SANTAB	KYIOO 23,600 200 59 6 A KYTWIO 18,889 180 59 6 A KYTKT 13,520 130 52 8 A KYTKT 3,520 130 52 8 A KYTKT 3,520 130 52 8 A KYTKT 3,520 130 52 8 A KYTK 3,520 130 52 8 A KYTK 4,520 130 52 8 A KYTK 5,520 150 150 77 24 B WYYY (WAFECA,WBFAVD,WS7,100) WYAS (+040) 94,424 858 74 12 B Idaho K2PO/7 96,944 854 73 24 0 WYTRC 202,202 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UT 38,624 284 68 14 A AA7UT 38,624 284 68 14 A KYTR 4,152 116 61 18 A KYTR 14,152 116 61 8 A KYTR 14,152 117 70 24 A MBTCY 7,676 511 75 22 A ABFOZ (+NOZOM) XHOTOL (KBTLF,NAYL) 24,420 185 66 10 A NTNQO (+KITKF,NAYL) 24,420 185 66 10 A NTNQO (+KITKF,NAYL) 24,000 172 70 24 A MONTANA KBTPTK 13,908 122 57 7 19 A KRTML 306,306 1989 77 2 4 B	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B NBTN 202,972 1916 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 26 24 B WTFR (AATHAM,ABTIF,KTs NPN,SS, NTS 18R,BEJ,WATBAY,NØAX, WAØRJY,0ps) 77,000 500 77 24 B KBTUXP (KBTYTJ,KCTMNY,0ps) 17,748 153 56 21 A WATNIFE (+WATTIT) 15,732 138 57 14 A WYOMING WC7S 39,902 281 71 16 Q NTMZW (00,320 660 76 24 A KD7RX 60,606 481 63 15 A NT/IUE 4,538 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (+KC7FIM) 25,296 204 62 11 A 8 Michigan WBERN 32,850 219 75 24 Q WASWEF 4,092 62 33 11 Q AA8AV 206,052 1338 77 24 A NSXHT 112,420 730 77 19 A
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (+KBSOKF) KJSVL (+KKSB) 10,488 10,7 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A NSKRD 8,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A WSCCP (AH9B,OP) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, Ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) 80,856 539 75 24 A WDGGTY (+WBZWW) 59,703 398 75 22 A WDGGTY (+WBZWW) 59,703 396 75 22 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBV, MSMUK, WBSCME) KBSTOK, KJDW, Ops) 17,490 165 53 24 A SOUTH TEXAS NSMWY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q	KNBOV 146,300 950 77 24 A WA78NM 106,400 700 76 17 A NZRN 41,580 270 77 13 A WB0NFO 41,472 286 72 23 A KNBLM 37,668 250 73 9 A NBGL 30,360 250 86 16 A K6ICS 47,046 190 89 10 A K6ICS 47,046 190 89 10 A K6ICS 47,046 190 89 10 A K6ICS 125,869 193 87 16 A K8ECS 125,480 196 85 12 A KMBTB 22,720 160 71 12 A KMBTB 22,720 160 71 12 A KMBTB 22,720 160 71 12 A KMBTB 18,880 160 59 10 A KNORO 18,724 151 82 15 A KNORO 18,724 151 82 15 B KODI 17,804 1167 76 24 B KOGAK 1,080 30 18 7 A ABGFO 235,928 1532 77 24 B WGUE (NGDLU,Op) KODI 177,384 1167 76 24 B KODI 177,884 1167 7	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 26,562 1951 76 24 B W86YK 98,104 652 76 23 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6GF 2,432 36 32 8 B WA6TKV (+K06KKP) 147,224 956 77 24 B WA6TKV (+K06KKP) 167,224 956 77 24 B WA6TKV (+K06KKP) 157,240 56 37 72 B K6HABR (KCGUCN,NSS PLE,VYT,ops) 22,806 181 63 12 A Santa Barbara NA2R 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A Santa Barbara NA2R 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A KN6WV 50,666 329 77 15 A K06ZF 1,342 107 53 17 A K06ZF 4,224 66 32 8 A W23J 2,214 41 27 2 A KE6TEE (KO8SX,op) 952 28 17 3 A	KYIOO 23,600 200 59 6 A KYTWIO 18,889 180 59 6 A KYTKI 13,520 130 52 8 A KYTR (+KITXS,NTCID) 24,884 1618 77 24 B WYYY (WAFEGA,WBFAVD,WS7,1008) W3AB (+0pa) 94,424 536 74 12 B Idaho K2PO/7 96,944 564 73 24 Q W7ZPC 202,202 1313 77 24 A AATUN 99,000 660 75 24 A AATUN 99,000 660 75 24 A AATUN 99,000 660 75 24 A AATUN 99,000 160 75 24 A AATUN 99,000 160 75 24 A AATUN 99,000 160 75 28 B KK7H 14,152 116 61 13 A KK7A 28,670 235 68 14 A N7SCY 13,000 125 52 8 A WBZCYO 7,676 101 38 6 A KC7HHQ 65,816 433 76 24 B WBTNSW 29,568 224 66 12 B WTUQ (KBTLFO,KTFO,Dops) WTUQ (KBTLFO,KTFO,Dops) WTUQ (KBTLFO,KTFO,Dops) ABFCZ (+NOZOM) V24,420 185 66 10 A N7NQO (+KITKE,KTAVL) 24,000 172 70 24 A MONTANB KTUH 160,360 1055 76 22 A KGTYG 34,300 245 70 19 A KBPTK 13,908 122 57 7 A WTOVJ 10,600 105 77 24 B N9TX7 250,404 1626 77 23 B KSTT 113,100 754 75 23 B	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 26 24 B WTFR (AATHW ABTIF KTs NPN.SS. NTS 18R.SEJ WATBAY, WØAX. WAØRJY,0ps) 77,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY,0ps) 17,748 153 56 21 A WATNIFE (±WATTITD) 15,732 138 57 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW (00,320 660 76 24 A KD7RX 60,606 481 63 15 A AATYH 30,222 219 69 21 A NG70 4898 82 35 7 A NTIUE 4,838 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (±KC7FIM) 25,296 204 62 11 A 8 Michigan WBERN 32,850 219 75 24 Q WASYEF 4,092 62 33 11 Q AABAV 206,052 1338 77 24 A NSXHT 112,420 730 77 19 A KGBPE 77,616 504 77 21 A KBSS
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (+KBSOKF) KJSVL (+KKSSK) 10,488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A NSXRD 8,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A WSCCP (AH9B,Op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, Ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) 48,08,56 539 75 24 A WDGGTY (+WBZWW) 59,70 398 75 22 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBVW, NSMUK, WBSCME) KBSTOT, KJQWO, Ops) 17,490 165 53 24 A SOUTH TEXAS NSMWY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q NSMX 17,1248 1112 77 18 A KSSC 155,984 1092 76 24 A	Neboy	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86AKS/6 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 62 76 23 B K6LRN 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 19,104 652 76 23 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 77 14 B N6NB (+N6MU) 232,336 1509 77 24 B WA6TKV (+K06KKP) 11 72,224 956 77 24 B W6TKF 79,050 663 77 20 B K6EGLUN,NSS PLE,VYT,0ps) 22,806 181 63 12 A Santa Barbara NA2R 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A SANTAB	KYIOO 23,600 200 59 6 A KYTWIO 18,889 160 59 6 A KYTKI 13,520 130 52 8 A KYTKI 13,620 130 62 8 A KYTR 4-KITXS,H7CID) 248,864 1616 77 24 B WYYY (MATEGA,WB7AVD, WS7),003) 243,864 1616 77 24 B WYAY (MATEGA,WB7AVD, WS7),003) 104aho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UN 99,000 660 75 24 A AA7UT 38,624 284 68 14 A AA7UT 38,624 284 68 14 A AA7UTF 14,152 116 61 16 A KYTZH 13,000 125 52 8 A WB7CYO 7,676 101 38 6 A KK7AHQ 65,816 433 76 24 B WB7NSV 29,568 224 66 12 B WYUQ (KB7LFO,KITFO,0ps) ABTCZ (+N0ZQM) 24,420 165 66 10 A NYNOQ (+KITKE,NYAYU) 24,080 172 70 24 A MONTANA KYLUH 160,360 1055 76 22 A KGTYQ 34,300 245 70 19 A KBPTK 13,908 172 70 24 A WONTANA KRYNOU 16,600 106 50 14 A NYMU 306,306 1989 77 24 B N9ITX/7 250,404 1626 77 23 B	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 26 24 B WTFR (AATHW ABTIF KTs NPN.SS. NTS 18R.SEJ WATBAY, WØAX. WAØRJY,0ps) 77,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY,0ps) 17,748 153 56 21 A WATNIFE (±WATTITD) 15,732 138 57 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW (00,320 660 76 24 A KD7RX 60,606 481 63 15 A AATYH 30,222 219 69 21 A NG70 4838 59 41 24 A WD7L 154,482 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (±KC7FIM) 25,296 204 62 11 A 8 Michigan WBERN 32,850 219 75 24 Q WASYEF 4,092 62 33 11 Q AABAV 206,052 138 77 24 A NSXHT 112,420 730 77 19 A KGBPE 77,616 504 77 21 A KBSB 57,1014 459 73 19 A KBSB 57,1014 459 73 19 A KBBR 59,136 384 77 24 A KBOLK 57,304 47 72 4 A
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (+KBSOKF) KJSVL (+KKSSK) 10,488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRDD 8,944 104 43 7 A WASCTU/S 5,412 66 41 4 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) B,8,656 539 75 24 A WDGGTY (+WBZWW) 59,70 398 75 22 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) S9,70 398 75 22 A WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBSIRL (+KCSBW, NSMUK, WBSCME) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) KBSTOT, KJ0W, ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W, ops) S9,70 398 75 24 A South Texas NSNMY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q NSNMX 171,248 1112 77 18 A KSSC 155,984 1092 76 24 A KESFI 116,732 75 75 70 20 A WASIVX 71,264 550 77 12 0 A	Negaria 106,400 77, 24 A Negaria 106,400 77, 24 A Negaria 106,400 70,700 76 17 A Negaria 106,400 10,700 76 17 A Negaria 106,700 76 17 A Negaria 10,700 76 17 A Negaria 10,700 76 10,700 10,7	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W86KK96 33,004 223 74 13 A KCEESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 62 76 23 B K6LRN 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 18,100 165 77 16 A W60H 29,562 1951 76 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6LRN 52,500 350 75 15 B K0EWPK 28,842 209 69 24 B K6GF 2,432 36 32 8 B WA6TKV (+K06KKP) 147,224 956 77 24 B WA6TKV (+K06KKP) 10,100 663 77 20 B K6HRB (KCGUCN,NS) PLE,VYT,ops) 22,806 181 63 12 A Santa Barbara NA2R 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A W86FGV 67,640 445 76 14 A KNEWV 50,666 329 77 15 A K06ZE 1,342 107 53 17 A K06ZE M,224 66 32 8 A W23J 2,214 41 27 2 A KE6TEE (K06SX,op) K6VKL 154,924 1007 71 6 B K6VMN 143,950 293 75 11 B W66HZ (KC6s CEX,IZR,QOQ,WOT,	KYIOO 23,600 200 59 6 A KYTWIO 18,889 180 59 6 A KYTKT 13,520 130 52 8 A KYTKT 13,520 130 52 8 A KYTKT 34,520 130 52 8 A KYTKT 34,520 130 52 8 A KYTK 34,520 130 52 8 A KYTK 44,520 130 52 8 A KYTK 44,520 130 52 8 A KYTK 45,570 150 77 24 B WYYY (WAFEGA,WBFAVD,WS7,100s) WASB (+0ps) 94,424 858 74 12 B Idaho K2PO/7 96,944 854 73 24 0 W77C 202,202 1313 77 24 A AA7UR 38,624 284 68 14 A AA7UR 38,624 284 68 14 A AA7UR 38,624 284 68 14 A KYTR 14,152 11 6 61 8 A KYTR 14,152 11 6 61 8 A KYTR 14,152 11 6 61 8 A KYTR 14,152 11 6 11 8 6 A KC7HHQ 65,816 433 76 24 B WBTNSW 29,568 224 66 12 B WTUQ (KBTLFO,KTFO,0ps) WTUQ (KBTLFO,KTFO,0ps) ABFCZ (+NOZOM) VARIOU (KBTLFO,MTFO,MTFO,MTFO,MTFO,MTFO,MTFO,MTFO,MT	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 24 B WTFR (AATHW ABTIF KTs NPN.SS. NTS 18R.SEJ WATBAY, VØAX. WAØRJY.0ps) 77,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY.0ps) 17,748 153 58 21 A WATNIFE (±WATITID) 15,732 138 57 14 A WYOMING WC7S 39,902 281 71 16 Q NTMZW 100,220 660 76 24 A KD7RX 60,606 481 63 15 A AATYH 30,222 219 69 21 A NG70 8,692 82 53 7 A NTIUE 4,838 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (±KC7FIM) 25,296 204 62 11 A 8 MICHIGAN WERIN 32,850 219 75 24 Q WASYEF 4,092 62 33 11 Q AABAV 206,052 138 77 24 A KSHI 11,2420 730 77 19 A KGBPE 77,616 504 77 21 A KGBFT 52,514 341 77 24 A KGBRT 52,514 341 77 24 A KGBRT 52,514 341 77 24 A
KCSOLY (KB2RUB, KBSLD) KCSs ALW, AMA_PHJ,RLH, KKSKN NSUHO,Ope). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRDD 8,944 104 43 7 A WASCOTU/5 5,412 66 41 4 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (-KBSWQR, KCSEOB, N5SAM) 48,08,56 539 75 24 A WDGGTY (+WBZWW) 59,70 398 75 22 A WGSC (-NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) S9,70 398 75 22 A WGSC (-NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W) ops) S9,70 398 75 24 A WSPAA (KBSTOT, KJ0W) ops) S1,71 39 48 13 Q KKKKX 8,928 93 61 75 12 A WASIVX 71,246 112 77 18 A KSSC 15,984 1092 76 24 A KESFI 116,732 755 77 20 A WASIVX 71,246 502 71 20 A WASIVX 71,246 502 71 20 A WASIVX 71,246 502 71 20 A WASION 54,510 305 71 4 A	Neb	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W68AKS/6 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A W60H 9,870 155 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 78 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B K0ERN 52,500 350 75 15 B K0EMP 28,432 38 32 8 B K6LRN 52,500 350 75 15 B K0EMP 28,432 38 32 8 B K6LRN 52,500 350 75 15 B K0EMP 28,432 38 32 8 B K6LRN 52,500 350 77 15 B K0EMP 140,4224 956 77 24 B WA6TKV (+KD6K/R) 102,102 663 77 20 B K6HRB (KCGLUCN,N6s PLE,VYT,ops) 22,306 181 63 12 A K6EGLE (+NET) 18,500 125 74 4 A Santa Barbara N6AZR 30,680 236 65 20 Q W6TKF 79,050 527 75 15 A WA6FGV 67,640 445 76 14 A KN6WV 50,666 329 77 15 A K06AZ 11,342 107 53 17 A KN6WL 50,666 329 77 15 A K06ZF 4,224 66 32 B KCG1 13,42 107 53 17 A K16EFE (KO6SX,op) KE6TER (KO6SX,op) K6HZ (KC6s CEX,IZR,QOQ,WOT, K06CVS,KE6SY,K,C06GA,N6NL,ops)	KYIOO 23,600 200 59 6 A KYTWIO 18,880 180 59 6 A KYTKI 13,520 130 52 8 A KYTKI 13,620 130 62 8 B KYJY (KATEGA,WBZYNO,WSZ),000 1 244,864 1616 77 24 B WYZY (KATEGA,WBZYNO,WSZ),000 1 WYZAR (ASS) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 Q WYZRC 202,202 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UN 99,000 660 75 24 A AA7UT 38,624 284 68 14 A AA7UT 38,624 284 68 14 A AA7UTF 14,152 116 61 16 A KYZA 28,670 235 61 3 A KJTFE 14,152 116 61 16 1 6 A KYZYE 13,000 125 52 8 A WBZCYO 7,676 101 38 6 A KC7HHQ 65,816 433 76 24 B WBZNSW 29,568 224 66 12 B WYUQ (KBZLFO,KITFC,0ps) 70 24,420 185 66 10 A NYNOQ (+KITKE,NZYAY) 24,080 172 70 24 A MONTANA KZUH 160,360 1055 76 22 A KGZYQ 34,300 245 70 19 A KGZYYQ 34,300 245 70 19 A KGZYYQ 34,300 245 70 19 A KGZYYQ 16,600 106 50 14 A NYML 306,306 1989 72 4 B KSZT 13,000 166 77 23 B KSZT 13,100 754 75 23 B KSZT 13,100 754 75 23 B KSZT 113,100 754 75 23 B KZYBW 60,588 452 67 8 B	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 552 56 24 B WTFR (AATHW ABTIF KTs NPN.SS. NTS 18R.SEJ WATBAY, VØAX. WAØRJY.ops) 77,000 500 77 24 B KBTUXP (KBTYTJ, KCTMNY.ops) 17,748 153 58 21 A WATNIFE (±WATITD) 15,732 138 57 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW 100,220 660 76 24 A KD7RX 60,606 481 63 15 A AATYH 30,222 219 69 21 A AZYH 30,222 219 69 21 A NTIUE 4,838 59 41 24 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B NTPLJ (±KC7FIM) 25,296 204 62 11 A 8 Michigan WBERN 32,850 219 75 24 Q KBJJQ 21,760 170 64 21 Q WASYEF 4,092 62 33 11 Q ABBAV 20,6052 1338 77 24 A KGBLS 77,616 504 77 21 A KGBPE 77,616 504 77 21 A KGBPE 77,616 504 77 21 A KGBPE 77,616 504 77 21 A KGBRT 52,514 341 77 24 A KGBIT 52,514 341 77 24 A KGBIT 52,514 341 77 24 A KGBIT 52,514 341 77 24 A KGBIS 50,646 332 76 18 A KGCV 48,180 330 73 12 A
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe) 37,668 258 73 16 A KBSKTY (-KBSOKF) LOABB 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 25,436 366 73 12 A NSRXF 25,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KCSASD 17,270 157 55 10 A NSXRD 8,944 104 43 7 A WASCOTU/5 5,412 66 41 4 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (-KBSWQR, KCSEOB, N5SAM) B,08,650 539 75 24 A WDGGTY (+WBZWW) 59,703 396 75 24 A WDGGTY (+WBZWW) SSEC (-NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,194 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,194 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) SEC 155,984 109 76 24 A KSSC 156,984 109 76 24 A KSSC 165,984 109 76 24 A KSSC 165,984 109 76 24 A KESFI 116,732 756 77 20 A WASTOX 54,150 30 325 77 18 Q KKSKX 8,928 93 48 13 Q NSMX 71,248 1112 77 18 A KSSC 165,984 109 76 24 A KESFI 116,732 756 77 20 A WASTOX 54,150 30 325 77 14 A NSUS 30,044 203 74 15 A KCKSMB 27,470 205 67 15 A	NNBOV	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN86MV 79,192 521 76 24 A W86AKS 6 33,004 223 74 13 A KCGESL 23,800 175 68 9 A KI\$PG 33,004 149 55 9 A KI\$PG 16,240 140 58 19 A N6VYM 16,226 133 61 11 A W6DPD 15,860 130 61 7 A KCGEW 9,870 105 47 18 A ACGLT 9,202 107 43 24 A WCGH 296,562 1951 76 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B K0ERN 52,500 350 75 15 B K0EW 28,842 209 69 24 B KG6F 2,432 38 32 8 B N6NB (+N6WL) 232,386 1509 77 24 B WASTKV (+KD6KKP) 147,224 956 77 24 B WASTKV (+KD6KKP) 102,102 663 77 20 B K86HRB (KCGUCN,N8s PLE, VYT,ops) K86HRB (KCGUCN,N8s PLE, VYT,ops) K86HRB (KCGUCN,N8s PLE, VYT,ops) R0AZR 30,680 236 65 20 Q W86JJE 12,584 121 52 9 Q W81KF 79,050 527 75 15 A WASFGV 67,640 445 76 14 A KNEWV 50,666 329 77 15 A KNGAZ 11,342 107 53 17 A KCGZFM 4,224 66 32 B A KGSZFM 4,224 66 63 77 3 A KGSZFM 4,224 1006 77 16 B KGVMN 43,950 293 75 11 B W86HZ (KCGSCX,CP) 125,202 813 77 24 B W86SKI 154,924 1006 77 16 B KGVMN 43,950 293 75 11 B W86HZ (KCGSCX,LZR,QOQ,WOT, KDGCVS,KERSYA,KOGGA, NGN,_ops) 125,202 813 77 24 B	KYTOO	236,852 1538 77 24 B WATOE 216,062 1403 77 24 B WATOE 216,062 1403 77 24 B WATOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 55 26 24 B WTFR (AATHW ABTIF KTs NPN.SS. NTS 18R,8EJ WATABY, WAX. WAJORJY,0ps) 77,000 500 77 24 B KBTUXP (KBTYTJ,KCTMNY,0ps) 17,748 153 58 21 A WATNEE (*WATITD) 17,748 153 58 37 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KD7RX 60,606 481 63 15 A ATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A AATYH 46,500 310 75 12 B NTPLJ (*KC7FIM) 25,296 204 62 11 A B MICHIGAN WBERN 32,850 219 75 24 Q KBJLG 21,760 170 64 21 Q WASHER 4,092 62 33 11 Q AABAV 20,6052 1338 77 24 A KGBPE 77,616 504 77 21 A KGBPE 52,514 341 77 24 A KGBCV 48,180 330 73 12 A KGBRT 52,514 341 77 24 A KGBIS 50,646 332 76 18 A KGCV 48,180 330 73 12 A KGBRT 52,514 341 77 24 A KGBIS 46,200 300 77 20 A WABERD 46,260 310 73 19 A KGBOT 40,608 282 72 17 7
KCSOJY (KBZRUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe) 37,668 258 73 16 A KBSKTY (+KBSOKF) 10,488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 25,464 202 66 15 A W57ZN 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRXF 54,16 64 10 4 3 7 A WASCOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAB 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSOXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) B, 80,856 539 75 24 A WDGGTY (+WBZWW) 59,703 396 75 24 A WBGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NLT) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NLT) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) SSOUTH TEXAB NSNMY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q NSNMX 171,248 11112 77 18 A KSSC 165,984 1092 76 24 A KESFI 116,732 756 77 20 A WASTOX 54,150 30 325 77 14 A NSNUS 30,044 203 74 15 A KCKMB 27,470 205 67 15 A WASSUXS 30,044 203 74 15 A KSKUS 30,041 203 77 15 6 A NSRBC 19,630 151 65 16 A	NNBOV	San Joaquin Valley W84TTM 23,120 170 68 7 Q KN8MY 79,192 521 76 24 A W85AKS/6 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A KI6PG 16,240 140 58 19 A KI6PG 16,240 140 58 19 A KI6PG 16,240 110 58 19 A KI6PG 16,240 110 54 71 18 A KOSUW 9,870 105 47 18 A ACGLT 9,202 107 43 24 A WC6H 96,552 1951 76 24 B W86YK 99,104 652 76 23 B KGERN 52,500 350 75 15 B KDEWPK 28,842 290 69 24 B KGER 2,432 38 32 8 B N6NB (+N6MU) 232,386 1509 77 24 B KGFK (KOEKCH) 16,500 125 74 4 A N6TNW (+KOEKKP) 16,500 125 74 4 A N6TNW (+KOEKKP) 16 63 77 20 B KB6HRB (KCGUCN,N6S PLE, VYT,Ops) 12,804 18 12 A N6EE (+NET) 16,500 125 74 4 A Santa Barbara N6AZR 30,680 236 65 20 Q W8TKF 79,050 527 75 15 A WAGFGY 67,640 445 76 14 A KOEAZ 11,342 107 53 17 A KOEAZ 12,444 127 2 A KC6ETEE (KO6SX,D) 952 28 17 3 A N6YKL 154,924 1006 77 16 B KW6BHZ (KC6S CEX,IZR OOQ,WOT, KD6CVS,KE6SYA,KO6GA,N6N,Ops) W8BHZ (KC6S CEX,IZR OOQ,WOT, KD6CVS,KE6SYA,KO6GA,N6N,Ops) W8BHZ (KC6S CEX,IZR OOQ,WOT, KD6CVS,KE6SYA,KO6GA,N6N,Ops) AB6SR (+KO6LZ) 32,500 250 65 9 B Santa Clara Valley	KYTOO	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTCAP 84,238 552 27 14 A WATRE 84,112 126 56 24 B WTFR (AATHW.ABTIF.KTs NPN.SS. NTS 18R.SEJ.WATBAY.VØAX. WAØRJY.ops) 77,000 500 77 24 B KBTUXP.(KBTYTSJ.KCTMMY.ops) 17,748 153 58 21 A WATNFE (+WATITD) 15,732 138 57 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KD7RX 60,560 680 76 24 A KD7RX 60,560 681 63 15 A AATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A WD7L 154,482 1003 77 19 B KBTM 46,500 310 75 12 B N7PLJ (+KC7FIM) 25,296 204 62 11 A 8 Michigan W8ERN 32,850 219 75 24 Q KBJLO 21,760 170 64 21 Q WASYEF 4,092 62 33 11 Q AASAY 112,422 730 77 19 A KGBPE 77,616 504 77 21 A KGBFT 52,514 341 77 24 A KGBFT 52,514 341 77 24 A KGBILS 46,200 300 77 20 A WABAPRD 46,260 310 73 19 A KGBOT 40,608 282 72 17 A WBBBUQ 39,060 279 70 8 A KNARI 37,848 248 76 9 A
KCSOJY (KBZRUB, KBSLD) KCSS ALW, AMA_PHI,RLH, KKSKN NSUHO,Oppe) 37,668 258 73 16 A KBSKTY (+KBSOKF) LO 488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 21,406 190 77 18 A KBSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A KBSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRD 8,944 104 43 7 A WASCOTU/5 5,412 66 41 4 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSSAB 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSOXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) B,08,650 539 75 24 A WDGGTY (+WBZWW) S9,703 396 75 24 A WBGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NLT) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NLT) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NLT) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) 28,542 213 67 15 A KB1ZQ/5 (+NLT) 41,184 286 72 19 A KSSIRL 14,729 165 53 24 A SOUTH TEXAS NSNMY 71,248 1112 77 18 A KSSC 15,984 1092 76 24 A KSSC 165,984 1092 76 24 A KESFI 116,732 75 77 20 A WASTON 54,150 30 325 77 14 A NSNUS 30,044 203 74 15 A KKSDO 15,744 123 64 9 A WSDCZ 10,500 105 50 3 A	NNBOV	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 79,192 521 76 24 A W68KS/6 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A K16PG 16,240 130 61 7 A W60PD 15,860 130 61 7 A W60PD 15,860 130 61 7 A K26UN 9,870 155 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 78 24 B W86YK 18,226 350 75 15 B K16LRN 52,500 350 77 14 B K16LRN 52,500 350 77 15 B K16LRN 52,500 350 77 24 B WA6TKV (+K06KKP) 102,102 663 77 20 B K16LRN (+K06KKP) 102,102 663 77 20 B K16LRN (52,606 181 63 12 A K16LRN 52,606 181 63	KYTOO	236,852 1538 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WATFOE 216,062 1403 77 24 B WTLZP 84,238 547 77 14 B WTCAP 84,238 552 77 14 B WTFR (AATHW.ABTIF.KTs NPN.SS. NTS 18R.SEJ.WATBAY.VØAX. WAØRJY.ops) 77,000 500 77 24 B KBTUXP.(KBTYTSJ.KCTMNY.ops) 17,748 153 58 21 A WATNFE (*WATTID) 15,732 138 57 14 A Wyoming WC7S 39,902 281 71 16 Q NTMZW 100,320 660 76 24 A KD7RX 60,566 481 63 15 A AATYH 30,222 219 69 21 A WD7L 154,462 1003 77 19 B KBTM 46,500 310 75 12 B N7PLJ (+KC7FIM) 25,296 204 62 11 A 8 Michigan W8ERN 32,850 219 75 24 Q KBLJQ 21,760 170 64 21 Q WABYEF 4,092 62 33 11 Q AABAV 20,525 338 77 24 A KGBPE 77,616 504 77 21 A KGBFT 52,514 341 77 24 A KGBILS 46,200 300 77 20 A WABARRD 45,260 310 73 19 A KGBOT 40,608 282 72 17 A WBBBUQ 39,060 279 70 8 A KABHZ 35,112 228 77 9 A KABHZ 35,412 228 77 9 A KABHZ 35,414 226 74 11 A
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73 16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10.488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSKD 8,944 104 43 7 A WASCOTU/5 5,412 66 41 4 A WSCCP (AH9B,Op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSOXJ, N5s FF, HEL, UBY, WBSOOX, KAORNY, Ops) 83,468 542 77 24 A KBSRBX (-KBSWOR, KCSEOB, N5SAM) B,08,650 539 75 24 A WDGGTY (+WBZWW) 59,703 396 75 24 A WBGSC (-NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,194 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,194 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) KBIZO/5 (+NILP) A1,194 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) SSOUTH TEXAS NSNMY 71,248 1112 77 18 A KSSC 15,984 1092 76 24 A KSSC 165,984 1092 76 12 A WASION 54,150 30 175 12 A WASION 54,150 30 151 65 16 A KKSDO 15,744 123 64 9 A WSCD 10,002 88 57 4 A	KNBDV 146,300 950 77 24 A WA75NM 106,400 700 76 17 A NZEN 1,580 270 77 13 A WB8NFO 1,1472 286 72 23 A KNBLM 37,658 256 73 9 A KNBLM 37,658 256 75 9 A KNBCL 25,892 193 87 16 A KB6ATT 25,450 196 95 10 A KWA8TB 22,720 190 77 12 A KWA8TB 22,720 190 77 12 A KWARTB 22,720 190 77 12 A KWARTB 22,720 190 77 12 A KWARTB 18,880 193 59 10 A KNBRO 15,660 135 58 13 A NBDBL 9,180 102 45 12 A KNBRO 15,660 135 58 13 A NBDBL 9,180 102 45 12 A KNBRO 1,724 151 82 15 A KNBRO 1,724 151 82 15 A KOBAL 3,360 56 30 5 A KNBRO 1,560 30 5 A KNBRO 1,724 151 62 15 A KOBAL 3,360 56 30 5 A KNBRO 1,724 151 62 15 A KOBAL 3,360 77 23 B KODI 177,384 1167 76 24 B WGUE (NBDLU.op) KODI 177,384 1167 76 24 B KODI 177,384 1167 76 24	San Joaquin Valley W86TTM 23,120 170 68 7 Q KN6MV 23,120 170 68 7 Q KN6MV 33,004 223 74 13 A KC6ESL 23,800 175 68 9 A K16PG 16,240 140 58 19 A K16PG 16,240 140 58 19 A K16PG 16,240 140 58 19 A K06VW 9,870 105 47 18 A AC6LT 9,202 107 43 24 A WC6H 296,562 1951 76 24 B W86YK 99,104 652 76 23 B K6LRN 52,500 350 75 15 B K06RN 52,500 350 75 15 B K06RN 23,386 1509 77 24 B K06F 2,432 38 32 6 B N6NB (+N6MU) 232,386 1509 77 24 B WA6TKV (+KD6KKP) 147,224 956 77 24 B WA6TKV (+KD6KKP) 162,102 663 77 20 B K86HRB (KC6UCN,N6s PLE VYT.0ps) K86HRB (KC6UCN,N6s PLE VYT.0ps) K86HRB (KC6UCN,N6s PLE VYT.0ps) K86HRB (KC6UCN,N6s PLE VYT.0ps) K86KRB 12,326 81 125 74 4 A Santa Barbara N6AZR 30,680 236 65 20 Q W81KF 90,650 227 75 15 A K96KB 12,342 107 53 17 A K96KB 4,224 66 32 9 77 15 A K06AZ 11,342 107 53 17 A K06CZ 1,342 107 53 17 A K06CZ 1,342 107 53 17 A K06CZ 1,342 107 53 17 A K6CETE (KO6SX,0p) K6FET (KO6SX,0p) K6FET (KO6SX,0p) K6FET (KO6SX,0p) Santa Clara Valley W8LPW 15,336 142 54 12 Q W86HP (K6S CEX,IZR,QOQ,WOT, K06CVS,KE6SYA,KO6GA,N6NL,0ps) 125,202 213 77 24 B Santa Clara Valley W8LPW 15,336 142 54 12 Q W86DF 1,5366 74 31 9 Q N86NF 183,160 1205 76 2 A	KYTOO	236,882 538 77 24 B
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73 16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10.488 107 49 7 A OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 23,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRXF 3644 104 43 7 A WASCTU/S 5,412 66 41 4 A WSCCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAA 193,496 1273 76 24 B KSSBSD 117,656 764 77 14 B WSHTK (N1UOC, KBSQXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (-KBSWQR, KCSEOB, N5SAM) MSWSC (-NET) 41,184 286 72 19 A KBSIR (-KRSWW, NSWMUK, WBSCME) KBSIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (-KCSBW, NSMUK, WBSCME) KBSIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (-KCSBW, NSMUK, WBSCME) KBSIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (-KCSBW, NSMUK, WBSCME) KBSIZO/5 (+NILP) A1,184 286 72 19 A KBSIRL (-KCSBW, NSMUK, WBSCME) S9,703 398 75 22 A WSSC (-NET) 41,184 286 72 19 A KBSIRL (-KCSBW, NSMUK, WBSCME) S9,703 398 75 24 A WSDPAA (KBSTOT, KJ0W) ops) KBSIZO/5 (+NILP) A1,184 286 72 19 A KSSIRL 17,248 1112 77 18 A KSSC 15,984 1092 76 24 A KESFI 116,732 755 77 20 A WASTON 54,150 30 175 12 A WASTON 54,150 30 175 12 A WASTON 54,150 30 325 77 14 A NSNUS 30,044 203 74 15 A KKSDO 15,744 123 64 9 A WSCD 10,032 88 57 4 A ABSEL 32,094 2111 77 24 B ABSKD (WBSVZL, op)	NNBOV	San Joaquin Valley	KYTOO	236,882 538 77 24 B
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Ope). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 53,436 366 73 12 A NSRXF 21,406 139 77 18 A KBSTS 20,022 141 71 19 A KCSASD 17,270 1	KNBDV 146,300 950,77 24 A WA75NM 106,400 700,76 17 A NZEN 1,580 270 77 13 A WBBNFO 1,1472 286 72 23 A KNBLM 37,658 256 73 9 A KNBLM 37,658 256 75 9 A KNBCL 25,869 199 89 10 A KNBCL 25,869 199 89 10 A KNBCL 22,939 182 53 11 A KMBTB 22,720 160 77 12 A KMBTB 22,720 160 77 12 A KMBTB 22,720 160 77 12 A KMBTB 21,724 151 82 15 A KNBCD 15,660 135 58 13 A NBDBL 9,180 102 45 12 A KNBCD 15,660 135 58 13 A NBDBL 9,180 102 45 12 A KNBCD 10,724 151 82 15 A KNBCD 1,724 151 87 12 B KODI 177,384 1167 76 24 B KOBL 12,125 130 77 22 B KODI 177,384 1167 76 24 B KSR 28,792 236 61 2 B NSKR 28,792 236 61 2 B NSKR (+KESXL,WEGE) 19,784 566 77 24 A KMBSR (+KESXL,WEGE) 19,784 56 77 24 A KMBSR (+KESXL,WEGE) 19,774 4 B KMBSR (+KESXL,WEGE) 19,774 4 B KMBSR (+KESXL,WEGE) 19,774 7 18 B KMBSR (+KESXL,WEGE) 19,775 7 1	San Joaquin Valley	KYTOO 23,600 200 59 6 A KYTWKO 18,889 180 59 6 A KYTKT 13,520 130 52 8 A KWTK 13,520 130 52 8 A KWTK 9,020 110 41 8 A KWTK 13,452 1616 77 24 B WYYY (WATEGA,WBFX/DU,WS7),003) 244,864 1616 77 24 B WYYY (WATEGA,WBFX/DU,WS7),003) 243,320 1580 77 24 B WASB (+0ps) 94,424 536 74 12 B Idaho KZPO/7 96,944 664 73 24 Q W7ZRC 202,020 1313 77 24 A AA7UN 99,000 660 75 24 A AA7UN 99,000 660 75 24 A AA7UT 38,624 284 68 14 A AA7UT 38,624 284 68 14 A AA7UT 38,624 284 68 14 A AA7UT 130,001 255 52 8 A WB7CYO 7,676 101 38 6 A KC7HHQ 42,001 25 52 8 A WB7CYO 7,676 101 38 6 A KC7HHQ 80,680 1055 76 22 A KG7HQ 24,20 165 66 10 A N7NQO (+KI7KF,N7XVL) 24,080 172 70 24 A MONTANB KYLUH 160,360 1055 76 22 A KG7VQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 160,360 1055 76 22 A KG7VQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 10,0360 1055 76 22 A KG7VQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 10,0360 1055 76 22 A KG7VQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 10,0360 1055 76 22 A KG7VQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 10,0360 1055 76 22 A KGYVQ 34,300 245 70 19 A KGPTK 13,908 172 70 24 A MONTANB KYLUH 10,000 106 50 14 A NYML 366,366 1997 72 4 B KSTT 113,100 754 75 23 B KSTT 113,100 75	236,882 538 77 24 B
KCSOLY (KB2RUB, KBSLD) KCSs ALW, AMA_PHI,RLH, KKSKNN,NSUHO,Oppe). 37,668 258 73 16 A KBSKTY (+KBSOKF) KJSVL (+KKSSK). 10.488 107 49 7 A OKIANOMS KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 21,406 402 66 15 A W5TZN 21,406 19 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSRXF 32,022 141 71 19 A KC5ASD 17,270 157 55 10 A NSKRD 8,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBSOXJ, N5s FF, HEL, UBY, WBSOQX, KAORNY, ops) 83,468 542 77 24 A KBSRBX (+KBSWQR, KCSEOB, N5SAM) WGSC (+NET) 41,184 286 72 19 A KBSIRL (+KCSBW, NSMUK, WBSCME) XBSKR (KBSTOT, KLJOW, Ops) XBSTA (KNBDV 146,300 950 77 24 A WA75NM 106,400 700 76 17 A NZEN: 41,580 270 77 13 A WB8NFO 41,472 286 72 23 A KNBLM 37,665 256 73 9 A NBGLE 30,360 250 56 16 A KGCS 27,048 196 89 10 A KGZCL 25,889 193 87 16 A KB6ATT 25,450 196 95 12 A KMBTB 22,720 196 77 12 A KMBTB 22,720 197 12 A KBGC 1,400 26 25 2 A KGGA 1,080 30 18 7 A AB6FO 255,928 1532 77 24 B WGUE (N5DLU,op) KGD 177,384 1167 76 24 B KGDI 177,384 1167 76 24 B KGGKH 14KSBSLWE6E) NEXTT (+WB2ODH,KC6KUP,KC6NDD, KE6S CTI,ILX,NES BMJ,ZII) 91,784 596 77 24 A KM6SR (+KE6SL,WE6E) 11,172 114 49 20 A AB6BX (KCGACI,KO6DM,ops) 9,810 109 45 8 A OPTANG PAGMTW 114,552 774 74 8 B KGBUB 11,141 29 68 12 A KGBUH 10,760 115 65 12 A KGBUH 10,760 105 42 9 A KGBUH 10,760 115 65 12 A KGBUH 10,760 115 61 18 A KGRUB 31,144 29 68 12 A KGBUH 10,760 115 65 12 A KGBUH 10,716 654 77 21 A KGBUH 10,716 654 77	San Joaquin Valley	KYTOO	236,852 538 77 24 B WATFOE 216,062 4033 77 24 B WATFOE 216,062 4033 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 556 24 B WTLZP 84,112 216 56 24 B WTLZP 84,112 216
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107 497 74 A OKIANORE KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 26,664 202 66 15 A W57ZN 21,406 139 77 18 A K65STS 20,022 141 71 19 A KC5ASD 17,270 17,	KNBOV 146,300 950 77 24 A WA78NM 106,400 700 76 17 A NZEN 1,580 270 77 13 A WBONFO 1,14,72 286 72 23 A KNBLM 37,655 250 73 9 A KNBLM 37,655 250 73 9 A KNBLM 37,655 250 73 9 A KNBLM 37,655 250 75 9 B KNBCQ 256,802 199 89 10 A KAGCL 25,802 199 89 10 A KAGCL 25,802 199 89 10 A KNBCQ 12,720 190 190 85 14 A WARRAY 18,880 180 59 10 A KNBCQ 18,724 151 82 15 A KNBCQ 18,724 151 85 25 13 A NBDBL 9,180 102 45 12 A KNBCQ 18,724 151 85 56 13 A NBDBL 9,180 102 45 12 A KNBCQ 18,724 151 85 69 13 A NBCL 3,360 56 30 5 A KNBCQ 18,724 151 85 56 13 A NBCL 3,360 56 30 5 A KNBCQ 19,180 102 45 12 A KNBCQ 2,808 52 27 5 A NGIC 1,400 28 25 2 A NGIC 1,400 28 25 2 A KGCAA 1,080 30 18 7 A AB6FO 235,928 1532 77 24 B WGUE (NBDLU,op) 201,278 1307 77 23 B KODI 177,304 1167 76 24 B NGMI 124,556 809 77 22 B ACGEF 52,136 343 76 19 B NSSR 28,792 236 61 2 B NSTT (+WB2ODH,KC6KUP,KD6NDX, KE6S CTI,ILX,NBS RMJ,ZII) 91,794 596 77 24 A KMSSR (+KESSXL,WE6E) NBSSR (+KESSXL,WE6E) 11,172 114 49 15 A KAC,093 111 49 15 A KAGCMBH 11,172 114 49 15 A KAGCMBH 100,716 654 77 24 A KMSRU 14,552 774 4 8 B WGNT 17,930 145 61 8 A WGHT 10,980 112 45 16 A WGHT 10,980 112 45 16 A WGHT 10,980 112 45 16 A WGHT 1,4552 774 74 18 B WGSEN (+KEGS,KMSB,R,WGCND) WGSEN (+KEGS,KMSB,R,WGCND) WGSEN (+KEGS,KMSB,R,WGCND) WGSEN (+KEGS,F,KMSB,R,R) WGSEN (+KEGS,R,R) WGSEN (+KEGS,R,R) WGSEN (+KEGS,R,R) WGSEN (+KEGS,R,R) WGSE	San Joaquin Valley	KYTOO	236,882 538 77 24 B
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Ope). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107 477 71 24 A NSRXF 53,436 66 73 12 A NSRXF 53,436 67 31 24 NSRXF 26,664 202 66 15 A W57ZN 21,406 139 77 18 A KBSSTS 20,022 141 71 19 A KCSASD 17,270	New Colon	San Joaquin Valley	KYTOO	236,852 538 77 24 B WATFOE 216,062 4033 77 24 B WATFOE 240,032 77 24 B WTLZP 84,238 547 77 14 B WTLZP 84,238 556 24 B WTLZP 84,748 77,000 500 77 24 B KBTUXP 77,000 500 77 24 B KDTUXP 77,000 500 77 24 B KDTUXP 77,000 500 77 24 B KDTUXP 77,000 660 76 24 A Wyoming WC7S 39,902 281 71 16 Q N7MZX 60,606 481 63 15 A A7YH 30,222 219 69 21 A A A7YH 30,222 219 69 21 A A A7YH 46,500 310 75 12 B KBTM 46,500 310 77 19 A KBLJQ 27,760 77 19 A KBLJQ 27,760 77 19 A KBLJQ 27,760 77 19 A KBLJQ 37,70 24 A KBLJQ 37,70 37 39 A KBLJQ 37,000 384 77 24 A KBLJQ 37,000 384 77 24 A KBLJQ 39,600 300 77 20 A KBLJQ 39,600 30
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Oppe). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (-KKSSK) 10,488 107 497 74 OKIANOME KSCM 67,734 477 71 24 A NSRXF 53,436 366 73 12 A NSRXF 21,406 130 77 18 A KBSSTS 20,022 141 71 19 A KC5ASD 17,270 1	Negaria 16,400 16,100 17,24 A Nacron 16,400 16,100 17,100	San Joaquin Valley	XYINDO	236,882 538 77 24 B WATFOE 216,062 4033 77 24 B WATFOE 216,062 4033 77 24 B WATFOE 24,029 72 818 77 24 B WTLZP 84,238 547 77 14 B WTOM 80,388 527 77 14 B WTOM 60,388 522 77 14 B WTOM 77 70 70 70 KTND 14,112 126 56 24 B WTFR (AATHWABTIF,KTS NPN,SS, N73 18R,962 WATFA NPAX, WADRJY,ops) 17,748 153 58 21 A WADRJY,ops) 77,000 500 77 24 B KBTUXP (KBTYTTJ),KOTMMY,Ops) 17,748 153 58 21 A WYOMING 100,320 660 76 24 A WYOMING 100,320 660 76 24 A KD7RX 60,606 481 63 15 A AATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A AATYH 30,222 219 69 21 A AATYH 46,500 310 75 12 B KBTM 46,500 310 77 19 B KBTM 46,500 310 77 19 B KBTM 40,600 62 31 31 AA8AV 206,052 1338 77 24 A NSKHT 112,420 730 77 19 A KBLJQ 21,760 170 64 21 Q WASYEF 4,092 62 33 11 Q AA8AV 206,052 1338 77 24 A NSKHT 112,420 730 77 19 A KBLSB 67,014 459 73 19 A KGBPE 77,616 504 77 21 A KBSB 67,014 459 73 19 A KGBPE 77,616 504 77 21 A KBSB 67,014 459 73 19 A KGBRT 52,514 434 77 24 A WD8S 50,464 332 76 18 A KGCV 48,180 330 73 12 A KBBBS 46,200 300 77 20 A KBBLS 45,206 310 73 19 A KGROT 40,608 282 72 17 A KBBS 67,044 73 21 A KBGOU 25,404 174
KCSOJY (KB2RUB, KBSLD) KCSS ALW, AMA_PHJ,RLH, KKSKN NSUHO,Ope). 37,668 258 73,16 A KBSKTY (-KBSOKF) KJSVL (+KKSBK) 10,488 107 49 7 A Oklahoms KSCM 87,734 477 71 24 A NSRXF \$3,436 366 73 12 A NSRXF \$3,436 366 73 12 A NSRXF \$3,436 366 73 12 A NSRXF \$3,436 367 71 19 A KGSASD 17,270 157 55 10 A KBSTS 20,022 141 71 19 A KGSASD 17,270 157 55 10 A NSXRD 8,944 104 43 7 A WAGOTU/5 5,412 66 41 4 A W5CCP (AH9B,op) 303,226 1969 77 24 B KSYAA 193,496 1273 76 24 B KSYAB 193,496 1273 76 24 B KSYAB 193,496 1273 76 24 B KSSAB 117,656 764 77 14 B WSHTK (N1UOC, KBGOXJ, N5s FF, HEL, UBY, WBSOOX, KAORNY, ope) 8,468 542 77 24 A KBSRBX (+KBSWOR KGSEOB, N5SAM) 8,0850 539 75 24 A WDØGTY (+WBØZWW) 8,0850 539 75 24 A WDØGTY (+WBØZWW) 4,0850 539 75 24 A WDØGTY (+WBØZWW) 59,703 998 75 22 A WGSC (+NET) 41,184 286 72 19 A KBSTRL (+KCSBVW, NSMUK, WBSCME) 28,542 213 67 15 A KBJCO/5 (+NIT) H, NISVWF) SPAA (KBSTOT), KJOW, ope) 17,490 165 53 24 A SOUTH TEXB NSMMY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q NSMMY 52,052 338 77 18 Q KKSKX 8,928 93 48 13 Q NSMMY 52,052 305 77 14 A KSSC 165,984 1092 76 24 A KSSC 165,984 1092 76 12 A NSMMX 171,248 1112 77 18 A KSSC 165,984 1092 76 12 A NSMSWZ 17,284 500 77 14 B NSMSWZ 17,284 500 77 14 A NSTOS 54,150 361 77 12 A NSTOS 54,150 361 77 14 A NSTOS 54,150 361 77 19 A NSTOS 54,150 361 77 19 A NSSBC 19,630 15 65 16 A NSTOS 10,032 88 57 4 A AA5BL 325,094 2111 77 24 B ABSKD (WBSVZL,0p) 305,534 1971 77 24 B NSBB (AASRB,0p) 305,534 1971 77 24 B NSBC 19,630 15 65 16 A NSKOD 11,032 88 57 4 A A65BL 325,094 2111 77 24 B NSBC 19,630 15 65 16 A NSKOD 11,032 88 57 4 A	KNBDV 146,300 950 77 24 A WA75NM 106,400 770 76 17 A WZBNIFO 11,472 286 72 23 A KNBLM 37,658 256 73 9 A KNBLM 37,658 256 75 9 A KNBCL 25,869 199 89 10 A KNBCL 25,869 198 85 16 A KNBCL 25,869 198 182 53 11 A KMBTB 22,720 160 77 12 A KMBTB 22,720 160 77 12 A KMBTB 22,720 160 77 12 A KNBCD 15,660 135 58 13 A KNBCD 15,660 135 58 13 A KNBCD 15,660 135 58 13 A KNBCL 3,860 56 30 5 A KNBCL 3,860 77 24 B WGUE (NBDLU,op) KOGAL 1,400 26 25 2 A KOGAX 1,680 30 18 7 A ABGFO 255,928 1532 77 24 B WGUE (NBDLU,op) KNBCL 1,400 26 25 2 A KOGAX 1,680 30 18 7 A ABGFO 255,928 1532 77 24 B KODI 177,384 1167 76 24 B KOBAK 1,485 BMJ,ZII) 91,784 596 77 24 A KBSR (+KEGSL,WEGE) ACCEF 52,138 343 76 19 B KSR 28,792 236 61 2 B NEXTT (+WB2ODH,KCGKUP,KOBNDX, KE6S CTI,ILX,NES BMJ,ZII) 91,784 596 77 24 A KMGSR (+KEGSL,WEGE) NEXT (+WB2ODH,KEGGHX,N6S WZR, XAC,Ops) 1,172 114 49 20 A ABGBX (KCGACI,KOGDM,ops) 9,810 109 45 8 A CORANGE ORANGE 1,172 114 49 15 A KSRUB 31,144 229 68 12 A WGHT 10,0716 654 77 24 A KBRUB 21,142 29 68 12 A WGHT 10,080 11,142 56 8 A KBGGH 17,690 145 61 18 A KBGHU 1,7690 145 61 18 A KBGHU	San Joaquin Valley	KYTOO	236,882 538 77 24 B

WBBZJL 15,960 133 60 24 A WB8MAMY 15,694 133 59 7 A WB8AFO 15,620 128 60 11 A KBBHGM 15,312 132 58 15 A KBGPW 15,004 121 62 18 A KDBWV 14,848 128 58 11 A KBGLC 14,989 133 53 13 A KBSIA 13,888 112 62 8 A A&BJA 13,888 112 62 8 A A&BJA 13,888 118 58 8 A A&BJA 13,200 120 55 24 A KBGVL 1,760 120 49 9 A AABTK 11,300 110 57 4 A NBRO 11,760 120 49 9 A AABTK 11,300 113 50 5 A WBSHBJ 11,110 101 55 15 A KBBVUS 10,944 114 48 17 A KBBULCQ 9,660 105 46 15 A WDBKZP 8,610 105 41 14 A KCBBW 6,256 68 46 7 A WBDKZP 8,610 105 41 14 A KCBBW 6,256 68 46 7 A WBLTM 5,040 70 36 9 A WBPPG 4,690 67 35 9 A KBSAK 2,700 45 30 3 A WDBKZO 2,600 50 26 4 A ABUU 1,564 34 23 6 A KBBUD 50 5 5 5 24 A ABBUU 1,564 34 23 6 A KBBUD 50 5 5 5 24 A ABBUD 50 5 5 5 24 A ABBUD 50 55 5 1 A NBUSH 10,000 850 77 24 B ABBRA 130,900 850 77 24 B ABBRA 151,00 350 77 12 B WBGC (18,878 707 77 12 B ABABRA 130,900 850 77 24 B ABBRA 14,200 550 77 13 B BABRA 14,400 130 72 9 A KBBL 14,700 550 77 13 A	KJBI	WB9GKA (+WB9ZAJ) WD9AKE (+KB9S LPL,LMNZ9Y, WD9HCR) 48,180 330 73 24 A KB9KJU (AA9AE, K9S RR, SAJUON, KASNOGA, N9KNS, KYGO, Opps) A1,888 308 68 23 A K9DM (+KB9JJS) 32,562 243 67 12 A N9JINE (+Opps) 31,920 228 70 24 A N9JIZ (+KB9JWG, N9S NPP, VZA, WJJ) 30,338 197 77 23 A Indiana KE9IT 19,024 164 58 10 Q AA9CG 48,180 330 73 11 A N9K8M 40,350 269 75 9 A KF9WZ 27,064 199 68 13 A N9K8M 40,350 269 75 9 A KF9WZ 27,064 199 68 13 A NESO 26,384 194 68 24 A KF9UP 23,608 166 64 14 A KF9UP 12,808 166 64 14 A KF9UP 12,808 166 64 12 A W4WQD 117,754 131 67 5 A KF9YH 17,554 131 67 5 A KF9WS 20,000 155 60 9 A KF9YH 17,554 131 67 5 A KF9HS 14,514 123 59 24 A W4WQD 14,742 117 63 16 A KF9HS 14,514 123 59 24 A W39UOO 50,204 326 77 16 B W99CC 10,800 70 77 10 B W99CEP 93,940 610 77 16 B W99CO 50,204 326 77 16 B W99CO 150,204 326 77 16 B W99CO 29,054 39 73 11 A AA9AX (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9BSH, op) W99L N9BSH, op) W99L N9BSH, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9BSH, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9BSH, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9BSH, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9BSH, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W1sconsin N9ISN 11,858 77 77 15 O W99IR N9S CQA, op) AA9AS (+KE4SMF, N9s JRZ,WLD) 21,516 163 66 7 B W34 14 18 18 18 18 18 18 18 18 18 18 18 18 18	Nowa 148,808 979 76 21 A W0OF 148,808 979 76 21 A W0OF 149,814 303 69 19 A KBOMRF 38,048 328 58 15 A AQAI 16,016 104 77 24 A AGAI 16,016 103 48 12 A AGAINER 10,192 104 49 9 A A A A A A A A	KØGND (+KØSCM, KGØXA, WDØEGK) 172,634 1121 77 24 A KBØJSU (+NØUJT) 147,994 961 77 24 A North Dakota KBØJXX 24,150 175 69 13 A KBØJXX 24,150 175 69 13 A A KBØDX 24,686 1459 77 17 B KE9OT (+NØHJZ) 858 103 43 4 A South Dakota W9SD (WDØT-op) 213,544 2036 77 24 B WVØH 203,896 1324 77 29 B MWØD (+KDØEE) 192 192 77 19 B Maritime-Newfoundland VESAA 100,100 650 77 24 B MWPERJEND 18 KEØD (*YEØAA 190,100 650 77 24 B Quebec 17,214 151 57 24 A VESAA VESAAR 100,100 60 60 78 24
WABRCN 15,300 150 51 8 A N8ATT 15,080 130 58 9 A KB8UFU 14,384 124 58 9 A N8MEY 14,040 130 54 7 A KG8AP 13,000 125 52 13 A WS8S 12,996 114 57 6 A	N9TUQ 3,168 48 33 9 A N9ZOP 1,536 32 24 4 A K9BGL 238,392 1548 77 24 B WA9TPQ 210,210 1365 77 24 B WG9L 134,288 872 77 16 B	K9BQL 38,384 249 73 9 A NØRAB 33,418 217 77 17 A K9YKL 26,240 205 64 13 A WBØNHA 15,184 104 73 10 A AAØQF 12,650 115 55 4 A NØUXA 12,500 125 50 10 A	KØHOF 73,050 487 75 13 A WBØQLU 44,352 308 72 19 A NØJHX 38,080 280 68 13 A KØYR 36,036 234 77 24 A WB4RDV 30,056 221 68 11 A	VE7RCN (VE7s BIY,CYT,IET,ops) 68,820 465 74 21 A Northwest Territories