By Billy Lunt, KR1R Contest Manager

1997 ARRL January V. Sweepstakes Results

espite average propagation conditions, high levels of activity made this contest fun from start to finish. You can always count on lots of activity in the January VHF Sweepstakes. Our ARRL Affiliated Clubs see to that. Typically, the January VHF SS attracts 300 to 500 more entrants than the June or September VHF QSO Parties. Clubs have a way of enticing casual operators to get on the air during the contest-with whatever equipment they may have. Even if the only VHF equipment that is available to you is a 2-meter FM transceiver, the bands are usually buzzing with activity on the simplex channels, especially in the local areas near large VHF contest clubs. A scan through the score listings will show you lots of entries with low to average scores. These are the casual operators. In the areas where you can find lots of casual operators, you can surely count on an active VHF contest club being nearby. If you are in one of these areas and don't belong to the local club, you should contact them. Clubs offer a wealth of resources—operating help, equipment information, antennas and propagation advice, etc. But most of all, clubs offer camaraderie among the members and lots of operating fun. If your club isn't filling the bill by getting the casual operators active in the contest, you should experiment with some new techniques to encourage your members to try VHF contesting. More activity makes for more fun-and larger scores.

Rovers are another entity that contributes to the overall fun of the contest. This year's VHF SS attracted quite a few rovers despite the unusually cold and stormy weather. With the lack of enhanced band conditions, and when nearby grid square multipliers are hard to come by, rovers offer us those much appreciated grid square multipliers, especially on the microwave bands. Rovers add doubly to your club's aggregate effort-contacts for you, and contacts for the rover. This only translates to larger club scores. Hats off to all



Our rotators were frozen several times during the weekend, but we were warm and toasty in the shack. Thanks to N2WK's XYL for the great food. We used our new Rochester VHF club call sign in memory of our founder Hank Blogett, W2UTH. Shown (I-r) are Mark, KA2RDO; Paul, W2PJ; Frank, K2OS: and Dave, K2DH. Rus, NJ2L, is to the left, in the background.

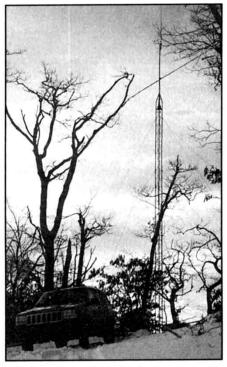
the rovers! Their presence and efforts don't go unrecognized.

It's not just activity that makes a contest interesting and fun-a band opening or two surely helps. Did you catch the short opening on 6 meters? Yes, there were actually two short 6-meter openings-one on Saturday night and one on Sunday morning, about an hour each. There wasn't much of any other band enhancements reported—a little meteor scatter and that was about it. This was definitely an average January contest.

Did you work any EME? This year the January EME Sked Weekend was on the same weekend as our contest. A few stations reported making EME QSOs into Europe-K1FO, WB2DNE and N4UK. Any others? This is one mode you want to watch. If you can catch a moonrise or moonset, you just might pick up a new multiplier or two.



Russell, VE3OIL, says, "The contest was on the coldest weekend of the year (notice the –29° C sign). The 1296 plastic antenna mounting, used for several June contests, shattered in the cold. The 432 antenna broke while cleaning ice off of it; I had to hot-wire it back to life. At one point the 2-meter amp took off into audio-frequency oscillation that I could hear, but a couple of thumps set it straight. The 6-meter transverter failed and needed encouragement. The only thing I couldn't work around was the truck. The picture is from the south end of EN94 shortly before the truck started misfiring and not providing enough power to pull itself. It had to be towed to the garage, causing much work and significant changes in my plans. The problem was determined to be probably a cold-induced intermittent in the fuel pump. It hasn't given me a problem since then-I may replace it in the warmer months, or I may not. I may attempt roving again next January, but only if it stays warm, say above -10° C.



AA4ZZ operated 144 MHz in the mountains of NC from his Jeep.

Top Ten

Single Operator 467,712 WA8WZG WA2TEO 364,000 WC2K 276,937 WA3AXV AA2UK 262,080 231,972 WZ1V 222 384 W2FU 188,800 K1RZ 188,649 KD1DU 170.291

QRP Portable W8TL/3 NS6X 37.920 W1VT 25,168 KK6KE 17,874 KC8BUN N8KH NBXA 5,781 3,683 N9TZL W6ZN 3.553

(VE2PIJ.op)

2,160

Multioperator кзмон 653,034 W2UTH 495,288 N2ODK WBULC 299,296 159,344 K1WHS 153,672 152,320 WA2AAU 132,225 W3IP WØRSJ 115.884

WA2OMY

Multioperator Rover N2XTX 180.495 N4UK 149,112 NR1L NC1I W1QK 99 086 92,367 NO2T 88.827 WB1FLD 56.602 K1MUJ 38.847 кзст 36,946

Limited

KB3PW 68.187 (+N2HKD) WO2P 37,760 KA2CKI 34,408 29,055 N2KXS KJ1K(+N1MU) 26,977 WB5VYE 17,836 17.836 (+WA5ZKO) **ИЗККМ** 16,744 (+N3XUD)

NC7K

109,368

How I Worked Five Grids on Sixteen Bands

By John Kitchens, NS6X

A nonham friend works in a satellite communication division of Hughes. He thinks I am a bit crazy for what I do. He does this stuff for a living, so he really doesn't understand why I find this stuff "fun." I guess it is more of the challenge of the hunt, than the competition that I enjoy—conquering something that I was told would be impossible to do. He can't tell me what he does (top secret job and all...), but I knew he has some expensive test equipment. I made arrangements to borrow some of it. I didn't pay too close attention to the equipment I was using, but it was essentially a signal generator and frequency counter, attached to 5-foot dishes, for all bands above 24 GHz. For the other bands, I used an FT-736 for 144 through 1296 MHz, Downeast transverters for 2.4 through 5.7 GHz, and Gunnplexers for 10/24 GHz. Several lasers were used with photomultipliers for receivers, as designed by Steve Noll, WA6EJO.

Los Angeles is a series of hills, with a grid intersection smack in the middle of the metropolitan area. I parked in the corner of one grid and worked my daughter, KB6JVV, on all bands. I then moved to each of the other three grids, in turn, working her again from each one. Then I drove to a more remote location for the fifth grid. That was it. Simple operation, mag mounts for 50 to1296 MHz, two dishes, Gunnplexers, and photomultipliers for receivers. I practiced with the equipment all day Friday, the day before the contest, to make sure I understood how it all worked, and to avoid destroying over a quarter-million dollars of "test" equipment.

For the first QSOs, we were practically next to each other. For the next three, I went with her to help set up the equipment, and then returned to my location to make the QSOs. For the QSOs from the final location, she set up by herself. She had never done that before, making it even more of a feat. I just wish there were some VUCC-type award she could receive for the effort she put in, something ol' dad could give. I enjoy the family nature of the way I have operated within the hobby. I have two more daughters to get licensed—just need to get some time with them, maybe this summer. They are 12 and almost 10 years old.

The score boxes tell the whole story on what the top stations did in each category. Take a few minutes to look over the standings, especially the region boxes that detail the local competition.

One thing for sure that we want to mention is that there were two overall score records set in this year's competition: WA8WZG set a new single operator record at 467,712 points, and K3MQH set a new multioperator record at 653,034 points. Great going! There were also 18 division records set: Single opera-

tors—WC2K, N2BJ, WA8WXG, WA2TEO, and NØEC. QRP portables—W8TL/3, N9TZL, KC8BUN, KK6KE, NS6X, and XL2PIJ (VE2PIJ,op). Multioperator—K3MQH. Limited multioperators—WA6KLK, N4UK, and VE3TMG. Rovers—AB4CR, NC7K, and W3EKT. The 1997 ARRL Contest Yearbook has all the contest records in it. ARRL Publications are available from your local ARRL dealer or directly from the ARRL. Mail orders to Publication Sales Dept, ARRL, 225 Main St, Newington, CT 06111-



Ric, K3QQ, tells us, "The contest fell on the same day as my Hemodialysis session." This didn't stop Ric. He had a QSO rate of 2.4 per hour.

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In the ARRL Affiliated Club Competition, the three gavel winners finished comfortably ahead of their competition. The Mt Airy VHF Radio Club easily took the unlimited category, with 2.8 million points. The North East Weak Signal Group took the medium category, with 2.2 million points, and the Delaware Valley VHF Society won the local category, with 136k points.

As you read these results, it'll be time to start getting ready for Field Day and the June VHF QSO Party. Don't forget about the VHF/UHF activity in Field Day. See May QST for details. Special thanks to Administrative Assistant Sharon Taratula for her help in preparing the results.

Northeast Region (New England, Hudson and Atlantic Divisions; Maritime and Quebec Sections)			Southeast Region (Delta, Roanoke and Southeastern Divisions)			Central Region (Central and Great Lakes Divisions; Ontario Section)			Midwest Region (Dakota, Midwest, Rocky Mountain and West Gulf Divisions; Manitoba and Saskatchewan Sections)			West Coast Region (Pacific, Northwestern and Southwestern Divisions; Alberta, British Columbia and NWT/Yukon Sections)		
WA2TEO WC2K WA3AXV AA2UK WZ1V	262,080 231,972	S	K2UOP/8 K9OYD/4 KC4QWZ K4QI N4KWX	81,270 54,800 49,569 48,120 38,367	s s	WA8WZG KE8FD WA8NJR N2BJ KU8Y	467,712 167,800 161,980 149,641 111,706	55555	NØHJZ WAØBWE NØEC KBØIKP WQØP	92,456 50,688 34,680 33,200 32,476	SSS	WB5OMF W3SE N6KBX N6AJ KC6ZWT	29,696 18,330 16,170 15,792 15,680	SSS
W8TL/3 W1VT XL2PIJ (VE2PIJ,op N2UM N1MUV	1,332	Q	KE4QLH	36	Q	KC8BUN N8XA N9TZL N9KXE KE4PZT	15,879 5,781 3,683 148 12	Q	NØWCB KGØZT (EN33) KBØYAE NØVUQ (EN33) NØVUR (EN33)	588 322 322 110 105	000	NS6X KK6KE N8KH W6ZN KE6GFI	37,920 17,874 7,130 3,553 2,010	aga
K3MQH W2UTH N2ODK K1WHS K2TVI	653,034 495,288 299,296 153,672 152,320	M M M				W8ULC VE3BFM	159,344 9,555		KB5IUA KB5UBE AC6IO	26,925 15,280 1,554	M	KC6UCN WA6YDI KØBGL KB7UWC W6TRW	19,140 18,444 8,028 5,418 4,906	M M M
N2XTX NC1I W1QK NO2T WB1FLD	92,367 88,827		N4UK NG4C KF4KVH KD4ZMR WD4GSM	149,112 18,630 6,580 5,822 4,532	L	WA8BCA WD9EXD NI9E K8EB VE3TMG	34,207 30,240 27,594 17,226 12,688	L L L L	WD5AGO KFØM KGØWA WA5VKS KA5BOU	13,035 9,296 9,288 7,689 6,601	L	N6RMJ WA6KLK W6TOI KI6FF WA7IQH	60,512 14,147 12,800 8,649 2,660	LLL
NR1L KB3PW (+N2HKD) WO2P KA2CKI N2KXS	109,368 68,187 37,760 34,408 29,055	R R R	AB4CR KF4OHL W3EKT N8ZCA (+KB8RXC) KF9US	143,606 10,556 8,778 6,633 4,368	R	N9UIZ N9VZX N9SFN N8KWX K9JK	13,414 11,820 11,100 8,748 5,876	R	WB5VYE (+WA5ZKO N5VBK KK5RH (+KD4JDT) NK5F NØMWH	17,836 10,549 10,300 6,897 5,694	R R R	NC7K KB6JVV K6LMN KM6RH KE6BZY	82,820 9,870 9,436 5,797 5,404	R R R

Affiliated Club Competit	tion							
	Score	Entries		Score	Entries		Score	Entries
Unlimited Category Mt Airy VHF Radio Club Northern Lights Radio Society Rochester (MN) ARC	2,893,897 498,443 17,685	57 56 55	Rocky Mountain VHF Six Meter Club of Chicago Schenectady ARA Quaboag Valley ARC Downey ARC	65,721 62,693 59,321 40,718 36,060	5 33 16 7 8	Local Category Delaware Valley VHF Society North Shenandoah DX Assn Bergen ARA Hudson Valley Contesters and DXers	136,757 96,844 91,540 74,842	€ 3 5
Medium Category Northeast Weak Signal Group Rochester VHF Group Potomac Valley Radio Club Badger Contesters Murgas ARC Western States Weak Signal Soc South Jersey Radio Assn	2,212,377 1,576,455 280,764 176,495 148,399 72,368	46 46 7 42 5 12	Crawford ARS Society of Midwest Contesters Keystone VHF Club Troy ARA Northern California Contest Club Granite State ARA Xerox ARC Northern New York Contest Club Mobile Sixers Radio Club	34,966 21,589 21,568 19,332 16,736 13,297 12,235 3,618 2,841	16 3 7 4 4 10 3 7	Overlook Mountain ARC Warminster ARC North Texas Microwave Society Wheaton Community Radio Amateurs Hilltop Transmitting Assn Albany ARA Drumlin ARC Delaware Valley OMIK Electronics Comm Assn Palo Alto ARA Huber Heights ARC Nittany ARC	67,114 57,070 52,282 34,037 25,763 19,518 12,660	22 77 9 3 4 8 3 5 5

QSO Lea	ders l	by Band													
Single Oper	rator	222 MHz		902 MHz		2304 MHz		Multioperate	or	222 MHz		902 MHz		2304 MHz	
50 MHz WA2WQZ K9PW N1MIA W3EP KU8Y WA2TEO K1TR W0UC/9 AA9AO K1RZ AJ1X N1MHH N2BJ WZ1V	262 247 244 224 221 219 218 205 197 185 178 164 163	WA3AXV WC2K WA2TEO WB3KRW WA3NUF WB3JYO N3EXA WA6WZG W21V AA2UK N2SB K1RZ KD1DU N2BJ WB2YEH	118 109 108 94 94 93 91 85 85 80 80 79 78 76	WA2TEO WA3AXV N3EXA WA3NUF W2UR AA2UK WB3JYO WC2K WZ1V WB2YEH WA8WZG N2SB W2FU W3KM W2SK	49 49 45 44 43 42 41 40 40 40 38 37 36 36	WC2K WA8WZG WA3AXV WA3NUF AA2UK N3EXA WA2TEO WB3JYO W2SK WZ1V W2UR WB2YEH N2SB W3KM N1DPM	48 32 31 28 27 26 24 23 22 22 21 19 18	50 MHz K3MQH WA8BCA -L K2TVI N2XTX -L K1WHS WØRSJ W1QK -L W2UTH N2ODK N4UK -L K3EOD W8ULC N2VOT -L NO2T -L	462 433 354 292 284 242 227 223 216 183 179 154 149	K3MQH W2UTH N2ODK K2TVI K3EOD WB2PSI WA2OMY K1MUJ -L W1QK -L N2VOT -L W8ULC W02T -L K3DMA WB1FLD -L WØRSJ	198 127 111 103 86 83 78 69 69 68 65 60 60 58 57	N2ODK W2UTH WA2AAU WA2OMY W3IP K3EOD WB2PSI N3ADC K3MOH K1WHS N1BWT W8ULC K2TVI WØRSJ WA3U	40 38 30 26 22 21 21 20 18 16 15 12	W2UTH WA2AAU N2ODK WA2OMY WØRSJ K1WHS WB2PSI W3IP K2TVI VE3BFM 3456 MHz W2UTH WA2AAU WØRSJ N2ODK	23 19 17 14 11 10 7 6 3 3 3
WC2K 144 MHz KD1DU WA2TEO WB2QOQ K3UZY WC2K K1RZ N2BJ WA3HUF WA4GPM WA3HOF WA3HOF WB3KRW WB3KRW WB3KRW WB3CUT AA2UK	161 435 413 364 330 322 314 304 287 261 259 257 254 252 251 251	432 MHz K1FO WA2TEO WA8WZG K7JA WA3AXV WZ1V N3FUJ N2BJ KE6GFF K1RZ WC2K WA3NUF WB3JYO WB3KRW W2FU	254 157 149 142 139 127 126 126 121 119 118 116 115	1296 MHz WA8WZG WA3AXV AA2UK WB3JYO WC2K N3EXA WB3KRW W2UR WB2YEH WA2TEO WZ1V W3KM N1DPM N2SB	65 64 63 60 54 53 53 52 48 45 44 41	W1MBA 3456 MHz WA3AXV WA3NUF WB3JYO N2SB WA8WZG KB3XG W2SK W2UR W1MBA WB2YEH N1DPM AA2UK N3AOG WZ1V W2FU N0HJZ KB2HQ	18 16 14 14 13 12 12 11 10 9 8 8 6 4 4	WA2OMY 144 MHz K3MQH W2KV -L NO2T -L K3EOD W2UTH N2XTX -L K2TVI NC11 -L W10K -L W10K -L W0RSJ N2ODK K3CT -L W3IP WA2OMY W8ULC	847 526 465 404 403 356 342 326 324 277 271 260 258	432 MHz K3MQH NC11 - L W2UTH N2ODK NO2T - L K2TVI K3CT - L W1QK - L W3IP K3EOD W8ULC WB1FLD - L N4UK - L N2VOT - L	333 222 176 156 147 133 121 116 107 104 100 91 90	1296 MHz W2UTH N2ODK W3IP WA2AAU WA2AMY K3MQH WD5AGO -L WB2PSI N3ADC K1WHS K3DMA KC6UCN K2TVI K3EOD WØRSJ	53 45 43 37 33 32 28 26 25 24 24 22 21 20	WAZOMY	1

Multiplie	r Lead	lers By Bar	nd	-											
Single Oper	rator	222 MHz		902 MHz		2304 MHz		W2UR	2	W2UTH	48	N2XTX -L	33	W3IP	9
omgic ope.		KE8FD	40	WA2TEO	20	WA8WZG	19	N3AOG	2	W2KV -L	47	N6RMJ -L	33	KGØWA -L	9
50 MHz		WABWZG	34	WA8WZG	19	WC2K	11	KB2HQ	2	WD9EXD -L	47	N2ODK	32	KB5IUA	7
K9PW	59	K9MRI	32	WC2K	16	WA2TEO	10	AA2UK	2	N2ODK	42	W3IP	25	K1WHS	7
W3EP	54	WA8NJR	31	WASAXV	14	N1DPM	9	VXASAW	2	NI9E -L	36	WB2PSI	25	W8ULC	6
WA2TEO	53	WA2TEO	29	K2UOP/8	14	W1MBA	9	WA3NUF	2	W3IP	35	K3CT -L	23	K1MUJ -L	6
WØUC/9	52	K4TO	26	WZ1V	14	WZ1V	8	WB3JYO	2	N6RMJ -L	34	K1WHS	21	WB2PSI	6
K1TR	52	AA2UK	25	AA2UK	14	WASAXV	7	AA2WV	2	WØRSJ	32	KFØM -L	20	KA5BOU -L	6 5
AF1T	52	K8TQK	25	W3OR	14	AA2UK	7	WB1FKF	2	NO2T -L	31	WØRSJ	19	KC6UCN	5
W1AlM	52	WC2K	24	W1MBA	14	W2FU	6	WB2YEH	2	NC11-L	30	K1MUJ -L	19	KB7UWC	5
KU8Y	51	KIRZ	24	KD1DU	14	WASNUF	5			K3CT -L	30	902 MHz		WA2OMY	5
NØLL	51	WZ8T	24	N1DPM	14	K2AN	5	Multioperator	r	222 MHz		N2ODK	16	N1BWT	5
AA9AO	48	KU8Y	23	W2FU	13	WA1YHO	5	50 MHz			40	WA2AAU	14	2304 MHz	
KØGU	46	N2BJ	23	W2UR	12	N1LZC	5		0.4	K3MQH	43	WAZAAU W2UTH	12	WA2AAU	11
WA8NJR	46	WZ1V	23	WA2FGK		N3NGE	4	N4UK -L	84 79	W2UTH	37	K3MQH	11	N2ODK	7
KM1X	45	WB2DNE	22	(K2LNS,op)	12	AA2WV	4	WA8BCA -L	79 69	W8ULC N2ODK	34 32	W3IP	8	W2UTH	6
WZ1V	44	WØUC/9	22	K1RZ	12	W2UR	4	K1WHS	69		32	WB2PSI	7	K1WHS	6
WA2WQZ	44	K2YAZ	22	4000 1111-		AF1T	4	K3MQH N2XTX -L	62	N4UK -L N2XTX -L	30	W8ULC	6	WB2PSI	5
144 MHz		WB3KRW	22	1296 MHz		NØHJZ	4	W2UTH	47	N6RMJ -L	24	K1WHS	6	WØRSJ	4
		W2FU	22	WA8WZG	30	WA2FGK		N2VOT -L	40	WD9EXD -L	22	K2TVI	6	W3IP	3
KE8FD	55	400 1411		K4QI	25	(K2LNS,op)	4	W8ULC	40	WB2PSI	20	N1BWT	6	K2TVI	2
KA9QFL	51	432 MHz		AA2UK	19	N3EXA	4	N2ODK	39	K1WHS	18	WA2OMY	5	WA2OMY	2
KB9IEC	51	K1FO	58	WA8NJR	18	N2SB	4	W1QK -L	39	NO2T -L	17	WASU	4	VE3BFM	- 1
K9MRI	51	K4QI	52	KE8FD	17	K1TR	4	N1BWT	38	K1MUJ -L	17	N3ADC	4		,
K8TQK	47 47	WA8WZG	45	WC2K	17	N2ULL	4	WB1FLD -L	37	W3IP	17	VE3BFM	3	3456 MHz	
K3UZY WA2TEO	46	KE8FD	41	WA2TEO	17	WB1FKF	4	WØRSJ	36	WA2AAU	16	WØRSJ	2	W2UTH	4
AA4ZZ	45	K9MRI	33	K2UOP/8	16 16	3456 MHz		K2TVI	35	W1QK -L	16	KB5UBE	2	WA2AAU	4
WA8NJR	45	WA2TEO	32	WASAXV	16	WA8WZG	9	NG4C -L	34			KB5IUA	2	N2ODK	3
WA4GPM	44	KØRZ	32	W3OR	14	WA6WZG W1MBA	7	K3EOD	34	432 MHz		K3EOD	2	WA2OMY	1
WA8WZG	44	N2BJ	32 31	WZ1V WB3KRW	14	N1DPM	5		0.7	N4UK -L	54		_	WØRSJ	1
VE3KDH	43	AA2UK KB9IEC	31	W2FU	14	NØHJZ	4	144 MHz		K3MQH	52	1296 MHz			
K1RZ	43		31	W1MBA	14	W2FU	3	N2XTX -L	64	NC1I -L	46	WD5AGO -L	23		
K4QI	43	K2YAZ KC4QWZ	31	WA2FGK	14	N2SB	2	кзмон	64	W8ULC	41	N2ODK	15		
WZ8T	42	W2FU	31	(K2LNS.op)	14	WZ1V	2	N4UK -L	59	W2UTH	37	W2UTH	15		
****	74	W2FU WA8NJR	30	WA3NUF	14	NA1W	2	W8ULC	57			K3MQH	15		
		WASNJH W3OR	30	WASHUF	14	KB3XG	2					WA2AAU	14		
		K8TQK	30			W2SK	2					K2TVI	10		
			30			WZON	2								
		WA4GPM	30												

Scores

Each line score lists call sign, score, stations worked, multipliers, band (A = 50 MHz, B = 144 MHz, C = 222 MHz, D = 432 MHz, 9 = 902 MHz, E = 1296 MHz, F = 2304 MHz, G = 3456 MHz, H = 5760 MHz, I = 10 GHz, J = 24 GHz, K = 47 GHz, L = 75 GHz, M = 119 GHz, N = 142 GHz, O = 241 GHz, P = 300+ GHz), and number of grid squares activated (if rover). Division leaders are listed in **bold** print.

USA	N1FUS 6,608 201 28 S ABD	NO2T (+KB2YGJ,N2S DSY,PBY,WA2s INW,	AB2F 152 38 4 S 8 KB2YMO 150 50 3 S B
1	WA1UOL 3,870 111 30 S ABCD KD1XP 3,723 172 17 S ABCD	QHL,WU2C) 88,827 814 87 L ABCD	K2ANC 132 33 4 S B
Connecticut WA2TEO 364,000 1019 208 S ABCD9EFG	NA1W 3,550 62 25 S BCD9EFG WA1ZUH 3,024 88 28 S ABD	Northern New York	WR2T 106 44 2 S BD KB2VGH(FN02)102 6 6 S BIJ
WZ1V 222,384 693 164 S ABCD9EF G	WA1NYV 2,235 149 15 S B	WA2AEY 14,283 207 69 S AB WB2KLD 5,382 105 46 S AB D	KB2VGH(FN03) 80 5 2 S IJ
KD1DU 170,291 839 137 S ABCD9E K1EM 38,786 376 82 S ABCDE	KA1SUN 1,980 71 22 S ABCDE W1RIL 1,649 47 17 S ABCD9EI	KB2ZUP 2,422 167 14 S BD	KC2AJV 45 15 3 S B
K1FO 29,464 254 58 S D W3EP 21,460 290 74 S AB	W1NMQ 1,020 60 17 S AB N1QKR 592 122 4 S BD	WB2BAU 8 4 2 S B N2ZLY 2 2 1 S B	KC2AJS 42 21 2 S B KB2UW 36 12 3 S B
W1COT 18,980 247 52 S ABCDE	N1RWC 273 35 7 S ABCD	WN2R (+NET) 3,608 88 41 L AB	N2HLT 32 2 2 S IP
N1NQD 11,568 193 48 S ABCD K1CPJ 10,980 174 45 S ABCD9EF	N1VMJ 64 32 2 S B N1JZO 63 21 3 S AB	Southern New Jersey	KB2KJV 8 3 2 S BC
AJ1X 6,230 178 35 S A	KB1AFZ 18 6 3 S A N1MUV 424 106 4 Q AB	WC2K 276,937 853 163 S ABCD9EF	KF2TV 5 5 1 S B N2UM 1,332 111 9 Q BD
K1WVX 5,809 118 37 S ABCDE	KR1R 4 2 2 Q AB	AA2UK 231,972 658 156 S ABCD9EFGHI WB3JYO 149,940 674 105 S ABCD9EF G	W2MI 156 24 6 Q BCD
N1RXM 3,080 118 22 S ABD N8WXQ 2,472 103 24 S AB	NC1I (+AC1Y,NC1B,WF1R) 99,086 700 103 L ABCD	W2UR 140,448 545 112 S ABCD9EFGH N2SB 122,300 558 100 S ABCD9EFGH	W2UTH (K2s DH,OS,KA2RDO,KD2KQ,N2WK,
WA1GTP 2,442 72 33 S ABC W1NWE 2,358 102 18 S BD	2	WB2YEH 72,261 493 63 S ABCD9EFG	NJ2L,W2PJ,WA2MOP,ops) 495,288 1108 216 M
WB1GCM 1,824 76 24 S AB	Eastern New York	N2SJC 23,426 448 34 S ABCDE W2PAU 12,564 300 36 S ABD	ABCD9EFGHIJP N2ODK (+KD2YB,N2s HLT,JQR,W3OAB)
N1SAG 1,615 69 19 S ABD WB8IMY/1 646 31 19 S ABD	W2XL 46,956 406 91 S ABCD9	KD2KS 9,909 297 27 S ABCD N2OML 6,660 143 30 S ABDE	299,296 888 188 M ABCD9EFGIP
W1TS 583 53 11 S B W1AW (NJ1Q,op)	WB2DUS 30,212 250 91 S ABCDE N2MCI 24,566 280 71 S ABCD	WB2VLA 3,060 114 18 S ABCD9	WB2PSI (K2WN,KB2ZFE,KE2CP,N2WHT, W2RA,W0VU,WA2s IKC,KAE,WB2s,
473 43 11 S AB	KB2HQ 24,072 249 51 S ABCD9EFGHIJ	N2XYZ 2,907 146 19 S BD K2UT 1,512 153 7 S BDE	BYP,QCJ,ops) 102,032 531 112 M ABCD9EFI
N1OPO 364 42 7 S BD N1BAH 306 51 6 S AB	K2ZZ 17,700 217 60 S ABCD	K2ZA 1,309 77 17 S AB N2DEQ 1,220 112 10 S BC	N2EZS (+KB2UW, KF2TV)
K1LXD 88 22 4 S A W1VT 25,168 230 52 Q ABCD9EFGHI	WM2Y 12,204 260 36 S ABCDE WA2WQZ 11,528 262 44 S A	N2JVQ 858 63 13 S ABD	22,608 352 48 M ABCD N2XTX (+AK3R,KC2UA,N2s ODU,YCW,NY2Z,
N1QVQ 224 45 4 Q BD	N2YQW 9,676 193 41 S ABD KB2UZB 9,432 243 36 S BCD	W2ORA 728 66 8 S ABCD W2FGY 640 80 8 S B	W2DRZ,WA3AWX) 180,495 825 189 L ABCD
W1QK (+AA1MY,KD1XS,N1s ABY,GS,W1QJ,	W2JHO 6,237 231 21 S ABCD	KA2YKN 623 81 7 S BC N2QWR 540 45 12 S AB	W2UB (+N2HXK,NZ2N)
WW1O) 92,367 743 99 L ABCD N1WPB (+N1TDW)	WB2MRX 5,100 133 34 S ABD W2CCP 3,248 112 29 S B	N2EMR 456 57 8 S AB WA2YSW 390 61 5 S BD	5,265 117 39 L ABD KB2SGX (+KB2UVO)
6,396 206 26 L ABCD W1ORS (K1TMW,K2RPM,N1s KPR,OLX,	W2GKR 3,192 114 28 S AB N2NCQ 3,180 119 20 S ABCD	N2RUA 385 52 7 S ABD	4,270 114 35 L ABD WA2AAZ (KB2s YMO,YMQ,KC2s AJL,AJS,AJU,
PLP,N2BQA,W1ZQT,WA1EHK,ops)	N2YXW 3,066 124 21 S ABD	KA2KFO 287 41 7 S B WA2QZQ 216 49 4 S BCD	KG2JI,ops) 4,002 169 23 L ABD
2,418 80 26 L ABCD Eastern Massachusetts	KG2H 2,940 98 30 S AB W1XX 2,862 106 27 S AB	KM2C 156 50 3 S BD K2VT 124 62 2 S B	KB2VGH (+KB2WEV)
WB1FKF 24,752 191 56 S ABCD9EFGHI	WA1KKM 2,635 74 31 S ABD WA2BAH 2,210 142 13 S ABCDE	WA2DUE 120 21 4 S BC	3417 193 13 L ABD KB2UDB (+KC2AJR)
KX1C 20,679 237 61 S ABCD9E WG1Z 11,340 190 45 S ABCDE	N2TY 2,028 118 12 S BDE K2RI 1,668 93 12 S BCD	N2HQL 108 22 4 S BC WB2YZS 80 15 4 S BD	2,886 180 13 L ABD W2OW (AA2s EQ,,MU,KB2YVS,KC2AIW,N3s
WA1LBK 9,650 145 50 S ABCDE	N2UID 1,529 99 11 S ABD	N2VIZ 78 26 3 S B N2VPN 76 38 2 S B	VKM, YKF,WF2A,ops)
WA1ECF 9,457 150 49 S ABCDE K1GVM 6,650 134 38 S ABCDE	WB2YOR 1,524 100 12 S ABD WY2H 1,512 63 18 S ABCD	K2VS 70 35 2 S B WA2ABF 62 31 2 S B	1,475 59 25 L AB KB2UJG (K2DN,KB2s FAF,LUV,KC2ACY,
WA1MTI 5,434 116 38 S ABCDE N1QPR 3,348 96 31 S ABD	WA2IWW 1,000 108 8 S BD N2YYU 960 71 10 S BCD	W2YRW 46 23 2 S B	N2s MRE,ZPT,ops) 1,140 46 20 L ABCD
WC1B 3,150 101 30 S ABD WA1OFR 2,862 82 27 S ABDEI	AA2WQ 924 84 11 S B KA2MCU 900 76 10 S ABCDE	KB2BLO 34 16 2 S BD N2LGH 14 14 1 S B	3
K1RV 1,704 71 24 S AB	KG2GX 837 66 9 \$ BCD	N2XQI 10 5 2 S B K2CR 5 5 1 S B	Delaware
N1VQR 1,380 85 15 S ABD N1EKV 1,380 65 20 S ABD	KB2VQR 738 66 9 S ABD N2YXX 676 48 13 S ABD	W2KV (+N2s DK,NU)	W3OR 139,503 559 147 S ABCD9EFG
K1VZI 450 45 10 S AB WA1QWT 198 22 9 S AB	N2TMT 620 62 10 S A N2TTM 585 61 9 S BD	24,722 526 47 L B K2AA (K2WB,KA2GSL,KF2YX,ops)	KB3PD 3,059 82 23 S BCD N3XTK 1,540 77 20 S B
W1DYJ 96 16 6 S A N1BWT (+KB1VC)	W2RJS 576 36 16 S B	21,960 426 40 L ABCD W2MMD (KA2s EZN,FFS,KB2VXC,N2YIO,ops)	KA3KHZ 407 37 11 S B
60,230 407 95 M ABCD9EI	AB2AF 484 40 11 S BP N2ZOE 460 115 4 S B	10,760 261 40 L ABD	WA3U (+KB3PD)
KA1EKR (+N1IÅ) 20,592 241 66 L ABCD	N2TJQ 4†5 83 5 S B KB2WZT 310 38 5 S BD	Western New York W2FU 188,800 599 160 S ABCD9EFGHI	38,056 393 67 M ABCD9E
N1JOY (+N1TZM) 7,800 176 40 L ABD	AA2CW 300 46 6 S ABCD	WB2ELB 46,596 268 66 S ABC9EFIJP	Eastern Pennsylvania WA3AXV 262,080 814 140 S ABCD9EFGHI
K1EP (+KL7JT/1,W1SZ)	KB2TPD 288 48 6 S B WB2BEJ 255 37 5 S BCD	AA2WV 43,882 282 74 S ABCD9EFGHIP K2AN 43,758 363 66 S ABCD9EF	WA3NUF 177,862 707 113 S ABCD9EFGHI
2,205 88 21 L ABDE N1FDX (+N1EDM)	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF	WB3KRW 127,765 641 115 S ABCD9E N3EXA 119,527 669 89 S ABCD9EF
2,205 88 21 L ABDE N1FDX (+N1EDM) 1,125 75 15 L AB	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S BD	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF K8ZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E	WB3KRW 127,765 641 115 S ABCD9E N3EXA 119,527 669 89 S ABCD9EF WA2FGK (K2LNS,op) 101,346 438 127 S ABCD9EF
2,205 88 21 L ABDE N1FDX (+N1EDM) 1,125 75 15 L AB Maine	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FVK 132 33 4 S B KB2WPA 132 31 4 S B KB2VDR 124 31 4 S B K2UF 18 9 2 S B	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF K8ZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCDE WA2BPE 20,475 208 75 S ABCD	WB3KRW 127,765 641 115 S ABCD9E N3EXA 119,527 669 89 S ABCD9EF WA2FGK (K2LNS.op) 101,346 438 127 S ABCD9EF W3KM 88,116 497 84 S ABCD9EFG
2,205 88 21 L ABDE N1FDX (+N1EDM) 1,125 75 15 L AB Maine N1HOV 5,945 122 41 S ABD K1GAO 3,182 86 37 S A	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S BD KB2VDR 124 31 4 S B K2UF 18 9 2 S B KBUYXF 350 70 5 Q B K2TVI (KCZVI,N2s DHH,DVQ,FMC,GDY,HTT,	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF K8ZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E WA2BPE 20,475 208 75 S ABCD AA2GV 16,448 171 64 S BCDE	WBSKRW 127,765 641 115 S ABCD9E MBSKA 119,527 669 89 S ABCD9EF WA2FGK (K2LNS.op) 101,346 438 127 S ABCD9EF WBKM 88,116 497 84 S ABCD9EFG WBKM 74,316 493 66 S ABCD9EFGHI WA4GFW 58,344 393 104 S ABCD
N1FDX (+N1EDM)	WRE2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S BD KB2VDR 124 31 4 S B K2UF 18 9 2 S B K2UF 18 9 2 S B K2TVI (KZZVI,N2S DHH,DVO_FMC,GDY,HTT, GKM,NWZ,N3EMF,WA2LVY,WBZNHC,Ops)	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E WA2BPE 20,475 208 75 S ABCD W2FE 14,053 226 47 S ABCD9E M2FE 11,492 280 34 S ABCD	WBSKRW 127,765 641 115 S ABCD9E MBSKRM 119,527 669 89 S ABCD9EF WA2FGK (K2LNS.op) W3KM 88,116 497 84 S ABCD9EFG W2SK 74,316 493 66 S ABCD9EFGHI W4AGPM 58,344 393 104 S ABCD9EFGHI W3GNC 53,130 407 69 S ABCD9EF N3FUJ 53,046 641 63 S ABCD
2,205 88 21 L ABDE N1FDX (+N1EDM) 1,125 75 15 L AB Maine N1HOV 5,945 122 41 S ABD K1GAO 3,182 86 37 S A N1DGF 2,366 74 26 S BCD WA1JOF 714 33 21 S ABD W1OT 180 15 12 S AB K1WHS (+K1ART.,WA1NIE)	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S B KB2WDR 124 31 4 S B K2UF 18 9 2 S B K2UF 350 70 5 O B K2TVI (K2ZVI,N2S DHH,DVO,FMC,GDY,HTT, GKM,NWZ,N3EMF,WA2LVY,WBZNHC,Ops) 152,320 988 112 M ABCD9EFIP WA2AAU (+KC1ZN,KYCA)	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCDE WA2BPE 20,475 208 75 S ABCD A2GCV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E KA2DOA 10,688 259 32 S ABCD KA2DOA 10,688 259 32 S ABCD WA2ZNC 10,688 259 32 S ABCD	WBSKRW 127,765 641 115 S ABCD9E
N1FDX (+N1EDM)	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2VDR 132 31 4 S B KB2VDR 124 31 4 S B KB2VDR 124 31 4 S B KB2VTR 18 9 2 S B KB2VTR 18 9 2 S B KB2VTR 18 9 2 S B KB2VTR 18 9 1 S O B KB2VTR 18	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCDBE WA2BPE 20,475 208 75 S ABCD AA2CV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E AF2K 11,492 280 34 S ABCD KA2DOA 10,668 259 32 S ABCD KA2ENE 9,180 269 27 S ABC KA2ENE 9,180 269 27 S ABC N2HJD 8,760 245 245 S ABCDEF	WBSKRW 127,765 641 115 S ABCD9E WBSKRW 19,527 669 89 S ABCD9EF WASKM 88,116 497 84 S ABCD9EFG W2SK 74,316 493 66 S ABCD9EFGH WAAGFM 58,344 393 104 S ABCD9EFGH WAAGFM 53,130 407 69 S ABCD9EF WSFW 53,046 641 63 S ABCD WBSFAN 40,803 355 77 S ABCD9EF WBSFAN 40,803 322 87 S ABCD9E
2,205	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S B KB2WDR 124 31 4 S B KB2VDR 124 31 4 S B KB2VDR 124 31 4 S B KZUF 18 9 2 S B KZTY (KZZVI,NZE DH,DVQ,FMC,GDY,HTT, GKM,NWZ,N3EMF,WA2L-VY,WBZNHC,Ops) 152,320 988 112 M ABCD9EFIP WAZAAU (+KG1ZN,NZYCA) 132,225 482 129 M ABCD9EFGH NZYOT (-KBZZST,NZE WCY,YUZ,NSEVQ) 53,418 456 87 L ABCD NZSOW (+NZEUT)	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E AA2GF 20,475 208 75 S ABCD WA2BPE 20,475 208 75 S ABCD W2FE 14,053 226 47 S ABCD9E AF2K 11,492 280 34 S ABCD KA2DOA 10,668 259 32 S ABCD KA2ENE 10,668 259 32 S ABCD KA2ENE 10,668 259 32 S ABCD KA2ENE 9,180 269 27 S ABD N2HJD 8,760 245 24 S ABCDEF WY2Z 8,288 172 28 S ABCDEIJP N2MXG 7,888 170 29 S ABCDBE	WBSKRW 127,765 641 115 S ABCD9E
Record R	WB2BEJ 255 37 5 5 5 5 5 5 5 5 5	K2AN 43,758 363 66 S ABCD9EF N2ULI 35,700 298 68 S ABCD9EF K8ZES 35,055 321 95 S ABCD9E N2DKP 30,744 305 72 S ABCD9E AA264 21,942 217 69 S ABCD9 AA269 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E KA2DOA 10,668 259 32 S ABCD KA2ENE 9,180 269 27 S ABC WY2Z 8,288 170 24 S ABCDEF WY2Z 8,288 170 29 S ABCDEIJP N2MXG 7,888 170 29 S ABCD9E K2OEQ 6,390 161 30 S ABCD9E	WBSKRW 127,765 641 115 S ABCD9E
2,205 88 21 L ABDE	WB2BEJ 255 37 5 S BCD N2JJE 215 43 5 S AB WB2FWK 132 33 4 S B KB2WPA 132 31 4 S B KB2WDR 124 31 4 S B KB2VDR 124 31 4 S B KB2VDR 124 31 4 S B KZUF 18 9 2 S B KZTY (KZZVI,NZE DH,DVQ,FMC,GDY,HTT, GKM,NWZ,N3EMF,WA2L-VY,WBZNHC,Ops) 152,320 988 112 M ABCD9EFIP WAZAAU (+KG1ZN,NZYCA) 132,225 482 129 M ABCD9EFGH NZYOT (-KBZZST,NZE WCY,YUZ,NSEVQ) 53,418 456 87 L ABCD NZSOW (+NZEUT)	K2AN 43,758 363 66 S ABCD9EF N2ULI 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABCD9E N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCDE WA2BPE 20,475 208 75 S ABCD AA2GV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E KA2DOA 10,668 259 32 S ABCD KA2ENE 9,180 259 27 S ABC WY2Z 8,288 172 28 S ABCDEF WY2Z 8,288 172 29 S ABCDEF WY2Z 8,288 172 29 S ABCDEF K2OEQ 6,390 161 30 S ABD9 K2MPE 5,207 107 41 S ABD WB2VUO 5,016 17	WBSKRW 127,765 641 115 S ABCD9E
2,205 88 21 L ABDE	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF R3EZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E AA2GF 21,942 217 69 S ABCD9E AA2GF 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E K2PE 11,053 226 47 S ABCD9E K2PC 10,668 259 32 S ABCD KA2DOA 10,668 259 32 S ABCD KA2ENE 9,180 269 27 S ABD N2HAD 8,760 203 39 S ABCD KA2ENE 9,180 269 27 S ABD N2HAD 8,760 245 24 S ABCDEF W2YZ 8,288 172 28 S ABCDEF W2YZ 8,288 172 28 S ABCDEJP N2MXG 7,888 170 29 S ABCD9E K2ME 5,207 107 41 S ABD WB2YUO 5,016 174 22 S ABCD9E WA2LSK 4,788 133 36 S A KEZT 4,761 153 23 S ABCD	WBSKRW 127,765 641 115 S ABCD9E
2,205 88 21 L ABDE	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E A2QGF 21,942 217 69 S ABCD9E A2QGF 20,875 ABCD A2QGV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E A2QGV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E A2QGV 10,648 290 34 S ABCD KA2DA 10,668 259 32 S ABCD WA2ZNC 10,662 203 39 S ABCD KA2END 19,180 259 27 S ABD WA2ZNC 10,662 203 39 S ABCD KA2END 8,760 245 24 S ABCDEF W4YZ 8,288 172 28 S ABCDEJIP N2MXG 7,888 170 29 S ABCDDE K2OCG 6,390 161 30 S ABD9 K2OCG 6,390 161 30 S ABD9 K2MPE 5,207 107 41 S ABD WB2VUO 5,016 174 22 S ABCDE WA2LSK 4,788 133 36 S AB A KEZT 4,761 153 23 S ABCD WULAD 4,428 H64 27 S B	WBSKRW 127,765 641 115 S ABCD9E WBSKRW 19,527 669 89 S ABCD9EF WASKM 88,116 497 84 S ABCD9EFGH WASKM 74,316 493 615 S ABCD9EFGH WASKM 58,344 393 104 S ABCD9EFGH WAGPM 58,344 393 104 S ABCD9EFGH WAGPM 58,344 393 104 S ABCD9EF WBSTAJ 53,048 641 63 S ABCD WBSTAJ 40,803 322 87 S ABCD9EF WBSTAJ 40,803 322 87 S ABCD9E WBSTAJ 40,803 322 87 S ABCD9E WBSTAJ 34,800 305 89 S ABCD9EF WBSTAJ 34,800 305 89 S ABCD9EF WBSTAJ 30,806 366 36 S ABCD9E WBSTAJ 30,806 366 36 S ABCD9EF WBSTAJ 30,806 366
N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E A2GF 20,475 208 75 S ABCD9E A2GF 20,475 208 75 S ABCD9E A2GF 14,053 226 47 S ABCD9E A2GF 14,053 208 34 S ABCD A2GF 14,052 203 39 S ABCD A2GF 14,053 205 245 24 S ABCD9E A2GF 14,053 24 S ABCD9E A2GF 14,053 24 S ABCD9E A2GF 14,054 24 S B B B B B B B B B B B B B B B B B B	WBSKRW 127,765 641 115 S ABCD9E WBSKRW 19,527 669 89 S ABCD9EF WASKM 88,116 497 84 S ABCD9EFGH WASKM 74,316 493 615 S ABCD9EFGH WASKM 58,344 393 104 S ABCD9EFGH WAGPM 58,344 393 104 S ABCD9EFGH WASKD 53,130 407 69 S ABCD9EFGH WBSTAA 40,803 322 87 S ABCD9E WBSTAA 40,803 346 40 S ABCD9E WBSTAA 57 S ABCDE WBSTAA 57 S ABCDE
N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E A2GF 20,475 208 75 S ABCD A2GF 20,475 20 S ABCD A2	WBSKRW 127,765 641 115 S ABCD9E WASFGK (K2LNS.op) 101,346 438 127 S ABCD9EF W3KM 88,116 497 84 S ABCD9EFGH W3KM 74,316 439 665 865 865 W3SK 74,316 439 665 865 WAGPM 58,344 393 104 S ABCD9EFGH WAGPM 58,344 393 104 S ABCD9EFGH W3FLJ 53,048 641 63 S ABCD9E N3FLJ 53,048 641 63 S ABCD9E N3FLJ 33,048 641 63 S ABCD9E N3RIT 47,275 465 61 S ABCD9E WB3FAA 40,803 322 87 S ABCD9E N3RN 32,040 305 89 S ABCD9E N3RN 32,040 305 89 S ABCD9EF N3AOG 28,656 366 36 S ABCD9E KB3IW 24,581 356 47 S ABCD9E KB3IW 24,581 338 57 S ABCDE KB3IW 24,581 345 47 S ABCDE KB3IM 21,216 421 34 S ABCD9E KB3ACA 19,383 323 39 S ABCDE W3KKN 19,282 323 31 S ABCD9E
2,205 88 21 L ABDE	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E A2GF 20,475 208 75 S ABCD A2GF 20,475 20 S ABCD A2	WBSKRW 127,765 641 115 S ABCD9E WBSKRW 19,527 669 89 S ABCD9EF WASKM 88,116 497 84 S ABCD9EFG W2SK 74,316 493 66 S ABCD9EFGH WASKM 58,344 393 104 S ABCD9EFGH WASKM 58,344 393 104 S ABCD9EFGH WBSKR 74,316 497 69 S ABCD9EFGH WBSKR 53,130 407 69 S ABCD9EF WBSTAN 53,046 641 63 S ABCD9E WBSTAN 40,803 322 87 S ABCD9E WBSTAN 32,040 305 89 S ABCD9E WBSTAN 32,040 305 89 S ABCD9E WBSTAN 32,040 305 89 S ABCD9EF WBSTAN 32,040 305 36 S ABCD9EF WBSTAN 32,040 305 36 S ABCD9EF WBSTAN 32,040 305 37 S ABCDE WBSTAN 32,040 346 40 S ABCD9EF WBSTAN 32,040 346 40 S ABCD9E WBST
2,205 88 21 L ABDE	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF RAZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 20,475 208 75 S ABCD9E AA2GF 20,475 208 75 S ABCD9E AA2GCV 16,448 171 64 S BCDE AA2GCV 16,448 171 64 S BCDE AA2GCV 16,448 171 64 S BCDE AA2GCV 16,648 172 260 34 S ABCD AA2GCV 10,062 200 39 S ABCD AA2GCV 10,062 203 39 S ABCD AA2GCV 10,062 20 S ABCD AA2GCV 10,062 20 S ABCD AA2GCV 10,062 20 S ABCD AA2GCV 10,062	WBSKRW 127,765 641 115 S ABCD9E WBSKRW 19,527 669 89 S ABCD9EF WASKM 88,116 497 84 S ABCD9EFGH W2SK 74,316 493 645 ABCD9EFGH WAGPM 58,344 393 104 S ABCD9EFGH WAGPM 53,130 407 69 S ABCD9EFGH WBSK 74,315 493 66 S ABCD9EFGH WAGPM 53,046 407 69 S ABCD9E WBSTAA 40,803 322 87 S ABCD9E WBBFAA 40,803 324 60 S ABCD9E WBBFAA 40,803 325 87 S ABCD9E WBBFAA 40,803 326 40 S ABCD9E WBBFAA 40,803 326 40 S ABCD9EFG WBBFAA 40,803 326 40 S ABCD9EFG WBBFAA 40,804 40 S ABCD9EFG WBBFAA 40,804 40 S ABCD9E WBBFAA 40,804 40 S 40 S ABCD9E WBBFAA 40,804 40 S 40 S ABCD9E WBBFAA 40,804 40 S ABCD9E WBBFAA 17,660 323 31 S ABCD9E WBBFAA 17,660 232 40 S ABCD9E WBBFAA 15,600 232 40 S ABCD9E
2,205 88 21 L ABDE	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E AA2GF 20,475 208 75 S ABCD9E AA2GF 11,492 217 69 S ABCD9E AA2GCV 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E AF2K 11,492 280 34 S ABCD9E KA2CDA 10,668 259 32 S ABCD WA2ZNL 10,668 259 32 S ABCD KA2ENE 9,180 269 27 S ABC W2YZ 8,288 172 28 S ABCDEF WY2Z 8,288 172 28 S ABCDEF W2CEQ 6,390 161 30 S ABD9 K2DCEQ 6,390 161 30 S ABD9 K2DCEQ 4,761 133 36 S ABCD9 WA2LSK 4,788 133 36 S A KE2T 4,761 153 23 S ABCDE WA2LSK 4,788 133 36 S A KE2T 4,761 153 23 S ABCD W2LAD 4,428 164 27 S B KB2NFS 4,125 189 15 S BC KB2NFS 4,125 189 15 S BC KB2NFS 2,660 191 10 S BD KB2WEU 2,640 72 30 S BD KB2WEU 2,650 103 19 S ABCD KB2WEU 2,560 103 19 S BC KB2WEU 2,560 103 19 S BC KB2WEU 2,560 103 19 S BC KB2NFS 1,560 191 10 S BD N2LIJ 2,563 108 E1 S BCD	WBSKRW 127,765 641 115 S ABCD9E
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N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULI 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E M2BPE 20,475 208 75 S ABCD9 AF2K 11,492 220 34 S ABCD9 KA2DOA 10,688 259 32 S ABCD KA2ENE 19,800 289 32 S ABCD WY2Z 8,780 245 24 S ABCDEF WY2Z 8,288 172 28 S ABCDEF WY2Z 8,288 172 28 S ABCDEF WY2Z 8,288 172 28 S ABCDEF K2OEG 6,390 161 30 S ABD9 K2DEG 4,788 172 29 S ABCDE KBZWYU 4,128 1	WBSKRW 127,765 641 115 S ABCO9EF WASEFGK (KZLINS.op) W3KM 88,116 497 84 S ABCO9EFGH W3KM 74,316 433 625 84 BCD9EFGH W3KM 74,316 439 66 S ABCD9EFGH WASEM 58,344 393 104 S ABCD9EFGH WASEM 53,130 407 69 S ABCD9EFGH WBSTAN 51,821 335 77 S ABCD9EF WBSTAN 40,803 322 87 S ABCD9E WBSTAN 32,040 305 89 S ABCD9EF WBSTAN 32,040 305 89 S ABCD9E WBSTAN 32,040 305 89 S ABCD9E WBSTAN 30,280 429 60 S ABCD9E WBSTAN 30,280 420 40 S ABCD9E WBSTAN 40,803 325 36 S ABCD9E WBSTAN 40,803 325 37 S ABCD9E WBSTAN 40,803 323 39 S ABCD9E WBSTAN 40,803 323 30 S ABCD9E WBSTAN 40,803 323 34 S ABCD9E WBSTAN 40,803 323 334 S ABCD WBSTAN 40,803 323 334 S ABCD
N1FDX (+N1EDM)	WBEBEL 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULI 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E M2BEP 20,475 208 75 S ABCD M2FE 11,492 200 34 S ABCD9E KA2DOA 10,688 259 32 S ABCD KA2ENE 9,180 269 39 S ABCD WAZENE 19,80 269 32 S ABCD WY2Z 8,288 172 28 S ABCDEF WY2Z 8,288 172 28 S ABCDEF W2VZB 7,288 170 29 S ABCDEF K20EG 6,390 161 30 S ABD9 K20EG 6,390 161 30 S ABD9 K2DEF 4,768 133	WBSKRW 127,765 641 115 S ABCO9EF WASEFGK (KZLINS.op) W3KM 88,116 497 84 S ABCO9EFGH W2SK 74,316 493 66 S ABCO9EFGH WAAGPM 58,344 393 104 S ABCO9EFGH WAAGPM 58,344 393 104 S ABCO9EFGH WASEM 53,130 407 69 S ABCO9EFGH WBSFAA 40,803 322 87 S ABCO9EF WBSFAA 40,803 322 87 S ABCO9E WBSFAA 40,803 325 36 S S ABCO9E WBSFAA 40,803 325 37 S ABCO9E WBSFAA 40,803 323 39 S ABCO9E WBSFAA 40,803 323 39 S ABCO9E WBSFAA 40,803 323 39 S ABCO9E WBSFAA 50,600 325 34 S ABCO9E WBSFAA
N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S A BCD9EF N2ULI 35,700 298 68 S A BCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E M2BPE 20,475 208 75 S ABCD9 M2PE 11,402 220 35 S ABCD9E KA2DOA 10,688 220 34 S ABCD9E KA2PDA 10,682 220 33 S ABCD KA2PDA 10,682 203 39 S ABCD KA2POZ 245 S 24 S ABCDEF WY2Z 8,780 245 S 24 S ABCDEF WY2Z 8,800 170	WBSKRW 127,765 641 115 S ABCO9EF WASEFGK (K2LNS.op) W3KM 88,116 497 84 S ABCO9EFGH W3KM 74,316 493 65 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WBSTAN 53,046 641 63 S ABCO9EF WBSTAN 40,803 322 87 S ABCO9E WBSTAN 40,803 322 87 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 323 39 S ABCO9E WBSTAN 30,280 323 31 S ABCO9E WBSTAN 30,280 34 S ABCO9E WBSTAN 30,480 30,480 30 S ABCO9E WBSTAN 30,480 30,480
N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E A2QGF 21,942 217 69 S ABCD9E A2QGF 20,947 208 75 S ABCD9E A2QGF 14,053 226 47 S ABCD9E A2GGF 14,053 29 32 S ABCD A2CD0 10,682 290 32 S ABCD A2CD0 6,390 161 30 S ABCD9E A2CD0 6,40 175 S ABCD A2CD0 6	WBSKRW 127,765 641 115 S ABCD9EF WASEFGK (KZLINS.op) WSKM 88,116 497 84 S ABCD9EFGH WASKM 74,316 493 665 ABCD9EFGH WASKM 58,344 393 104 S ABCD9EFGH WAAGPM 58,344 393 104 S ABCD9EFGH WAJGIN 58,344 393 104 S ABCD9EF WBSTAN 40,803 322 87 S ABCD9E WBSTAN 40,803 322 87 S ABCD9E WBSTAN 32,040 305 89 S ABCD9E WBSTAN 21,216 421 34 S ABCD9E WBSTAN 21,216 421 34 S ABCD9E WBSTAN 19,282 323 31 S ABCD9E WAJGKB 17,458 249 43 S ABCD9E WBSTAN 15,500 322 40 S ABCD9E WBSTAN 15,600 323 34 S ABCD9 WBSTAN 15,600 323 34 S ABCD9
N1FDX (+N1EDM)	WB2BEJ 255 37 5	K2AN 43,758 363 66 S ABCD9EF N2ULL 35,700 298 68 S ABCD9EF KBZES 35,055 321 95 S ABD N2DKP 30,744 305 72 S ABCD9E AA2GF 21,942 217 69 S ABCD9E AA2GF 20,475 208 75 S ABCD9E AA2GY 16,448 171 64 S BCDE W2FE 14,053 226 47 S ABCD9E AF2K 11,492 280 34 S ABCD9E AF2K 11,492 280 34 S ABCD9E KA2DOA 10,688 259 32 S ABCD KA2ENE 9,180 269 27 S ABC W2YZZ 8,288 172 28 S ABCDE W2YZZ 8,288 172 29 S ABCDE K2DEQ 6,390 161 30 S ABD9 K2DEQ 1,070 41 S ABCD W2LAD 4,428 164 27 S B KBZYUO 5,016 174 22 S ABCDE W2WALLSK 4,788 133 36 S A KEZT 4,761 153 23 S ABCD W2LAD 4,428 164 27 S B KBZHVL 3,889 15 S BCD KBZHVL 3,889 15 S BCD KBZHVL 2,600 191 10 S BD W2WAL 3,689 170 18 S ABCDE W2WGL 2,600 191 10 S BD W2LAI 2,553 168 11 S BCD KZJD (AFZK,pp) W2LAI 2,652 100 8 S BD KC2AJX 1,1970 145 10 S BCD W2LAI 1,800 90 20 S ABCDE W2WZH 1,800 192 10 S BD W3LIF 1,800 190 20 S ABCDE W2WZH 1,800 191 10 S BD W3LIF 1,800 190 20 S ABCDE W2WZH 1,800 191 10 S BD W3LIF 1,800 190 20 S ABCDE W3LIF 1,800 1	WBSKRW 127,765 641 115 S ABCO9EF WASEFGK (K2LNS.op) W3KM 88,116 497 84 S ABCO9EFGH W3KM 74,316 493 65 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WASKM 58,344 393 104 S ABCO9EFGH WBSTAN 53,046 641 63 S ABCO9EF WBSTAN 40,803 322 87 S ABCO9E WBSTAN 40,803 322 87 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 32,040 305 89 S ABCO9E WBSTAN 30,280 346 40 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 345 47 S ABCO9E WBSTAN 30,280 323 39 S ABCO9E WBSTAN 30,280 323 31 S ABCO9E WBSTAN 30,280 34 S ABCO9E WBSTAN 30,480 30,480 30 S ABCO9E WBSTAN 30,480 30,480

		Double Taxon	7
W3ICC 1,485 155 9 S BD WA3CSP 1,440 60 24 S A	WA4KXY 10,808 185 56 S ABD WA4OYH 2,700 75 27 S ABCD	South Texas N5WS 26,296 229 76 S ABCD9E	, Arizona
WA2GFP 928 80 8 S BCD N3MAV 864 100 8 S ABC	K4KAZ 2,139 69 23 S ABCDE WD4MBK 1,700 45 20 S BCDE KF4DZV 784 55 14 S ABD	W3XO/5 7,392 126 44 S ABCD9E W5UWB 4,329 99 37 S ABCD W5EHM 2,522 97 26 S AB	KB7VCO 2,950 94 25 S ABD N7GJD 550 38 11 S ABD
KC2ZA 820 74 10 S BCD N3BPJ 812 99 7 S BD	KF4KUO 33 11 3 S B	KK5OA 1,092 52 21 S AB	WB7OHF 243 25 9 S ABD W9SE 1 1 1 S A
N3VRC 777 36 21 S ABD W3AWA 777 100 7 S ABCD	KE4QLH 36 12 3 Q B W4PYM (AE4GQ,K4SZ,KC4GCK,KE4NYK, KF4KAN,KT4XE,W4FLY,ops)	KC5CXU 217 31 7 S B KK5DK 4 2 2 S B KB5IUA (+WX5DX)	KC7CAL 1,050 110 7 Q BD N7SQN (+KC7KMJ)
N3LJC 655 115 5 S BD WA3JMM 570 79 5 S ABC	816 41 16 L ABCD	26,925 261 75 M ABCD9E	1,242 51 18 L ABDE N7TX (+KC7OMT,KR4EN)
N3RAH 540 93 5 S BD W3JG 504 78 6 S ABD N3LRJ 500 125 4 S B	Kentucky K4TO 40,119 230 129 S ABCD	6	660 48 11 L ABD Eastern Washington
W3JS 426 71 6 S B N3HFV 403 31 13 S AB	WA4FVQ 12,648 125 62 S ABCD9E KE4JFS 6,936 130 51 S ABD	East Bay WB50MF 29.696 284 64 S ABCDE	N7AU 4,674 89 41 S ABCDE N3CEV 1,708 47 28 S ABD 9E
N3NID 330 48 6 S ABCD W3IAR 308 74 4 S BD	KE4PZT 12 4 3 Q A North Carolina	W7KK 1,080 61 15 S BCD WB6ETY 336 38 7 S BC	AB7IZ 140 19 7 S AB0 KB7UWC (+W7FHI)
N3IPM 292 48 4 S BD W3HMU 288 33 8 S AC	K4QI 48,120 229 120 S BDE AA4ZZ 11,904 183 62 S ABC	Los Angeles W3SE 18,330 330 39 S ABCD	5,418 98 42 M ABCD9E
W3ALR 276 69 4 S B KA3YCG 276 92 3 S B	W4VHH 8,060 82 52 S BDEFGI N4PPH 1,170 45 26 S B	W3SE 18,330 330 39 S ABCD AC6TA 7,784 215 28 S ABD W6IST 3,990 139 21 S ABCD	Idaho KJ7TH 1,694 92 14 S ABD
N3HSV 240 49 4 S BD KC3LE 216 27 8 S B	AA4NC 220 20 11 S AB NG4C (+N4ZWQ)	KE6MAS 3,672 140 18 S ABCDE KD6CML 3,360 116 20 S ABCD	KA7GUX 1,222 41 26 S ABD KK7AT 395 56 5 S BD
W3UQC 210 35 6 S B W3DZH 200 19 10 S ABD	18,630 194 81 L ABCD KE4HYM (+KE4GCF)	KE6FCT 3,278 119 22 S ABCD KE6AXJ 2,730 121 14 S BCD	KK7CV 189 44 3 S BD KJ7TI 86 31 2 S BD KC7SBI 80 31 2 S BD
KA3MGB 188 47 4 S B KD3DI 184 46 4 S B	828 39 18 L ABCD Northern Florida	KE6MAK 1,416 88 12 S ABD WA9STI 1,212 79 12 S ABD	КС7SBI 80 31 2 S BD КС7SBH 76 30 2 S BD
K3BPP 160 28 4 S BC N3SOQ 148 35 4 S BD N3TLJ 140 20 7 S AB	KA4VXT 7,695 118 45 S ABDE	KE6FVN 1,148 54 14 S ABCD W6GGV 918 35 17 S ABCD	Nevada K7ICW 5,828 95 47 S ABCDE
N3MXT 130 65 2 S B	K4RZB 7,515 115 45 S ABCDE KT4AL 5,822 99 41 S ABDE KE4YYD 3,003 78 33 S ABD	N6WZI 492 82 6 S B N6OPR 329 47 7 S B	KF7UV 4,641 89 39 S ABCD WB7TDI 799 41 17 S ABD
N3AHP 126 18 6 S ABCD N3LJE 112 56 2 S B N3VPG 110 55 2 S B	KQ4PI 2,436 53 29 S ABCDE KE4LVQ (+KB9KOH,KF4KWN)	KF6EOJ 110 18 5 S BD K6FP 84 21 4 S AB	NW7O 24 3 2 S E W7PW 387 43 9 Q B
W3HK 80 11 5 S ABCD KA3QBB 66 33 2 S B	627 33 19 L AB	KD6UNR 39 13 3 S B N8KH 7,130 230 23 Q ABCD	Oregon N7EIJ 3.875 114 31 S ABD
N3RAG 52 26 2 S B WA3CQT 42 11 3 S ABC	South Carolina AC4Q 1,058 36 23 S ABCD	W6TRW (KB6TVJ,KD6WYQ,KE6s MJU,SNF, KF6EXC,KQ6CG,KS4IS,N6s CIZ,ZAY,	N7EIJ 3,875 114 31 S ABD N7YAG 3,654 99 29 S ABCDE N7DB 2,112 82 24 S ABCD
WG3S 33 33 1 S B WB3BNE 28 6 4 S BD	KE4YCI 51 16 3 S BD N4UK (+W3ZZ,W4XP,WD8ISK)	WA6MPF,ops) 4,906 169 22 M ABCDE N6RMJ (+K6KWQ,WA6DJS,WB2ODH)	K7ZL 663 39 17 S AB K7HSJ 660 35 15 S ABCDE
N3RAL 24 8 3 S B W3TDZ 10 5 2 S B	149,112 513 228 L ABCD KD4ZMR (+KA4ABW,KD4s TCA,TCB,KE4JNY)	60,512 351 122 L ABCD W6TOI (KB6WKT,KE6HPZ,WB6JDH,ops)	KA7MFM 364 26 14 S B KI7N 9 9 1 S B
N3RIA 3 3 1 S B N3YNX 3 3 1 S B	5,822 125 41 L ABD Southern Florida	12,800 291 32 L ABCD	WA7IQH (+KD6VLR,W7IK) 2,660 87 28 L ABCD
WB3ABH 232 58 4 Q B K3QQ 48 10 4 Q ABD	K4NB 2,783 104 23 S ABD K2OY 2,552 108 22 S ABD	Orange KE6WWL 6,520 133 20 S DE	Utah
W8IJ 4 2 2 Q AB K3MQH (K3s IXD.JFL,MM.RA,N3s EYB.KTV,	NSPIP 2,499 115 17 S BD KA1ZFO 1,309 56 17 S BD	KG6EG 6,237 150 33 S ABD K7JA 5,112 142 18 S D	NT7A 2,475 73 25 S ABDE K7DJB 1,740 61 20 S ABDE
W2EOS,W3GHR,WF3T,ops) 653,034 1890 254 M ABC09E	K9HUY 1,178 59 19 S ABD KD4JMV 902 74 11 S BD	KE6GFF 4,032 126 16 S D K6IBY 4,026 80 33 S ABCD	N7MLD 1,122 55 17 S ABD KA9LNP 765 44 15 S ABD KC7KDZ 259 32 7 S BD
WØRSJ (+KD2IX,WB2ONA) 115,884 736 111 M ABCD9EFG WA2OMY (+WA3YUE)	KD4NUA 68 34 2 S B KD4ZKX 16 16 1 S B	KE6CHC 2,004 114 12 S BCD K6TSK 1,800 65 18 S BD	KC7QFS 85 17 5 S B
108,290 632 98 M ABCD9EFGHP K3EOD (N3DG, WA3IAC, WR3P, WF3W,ops)	KM4XN 14 7 2 S B Tennessee	KD6UIH 1,387 43 19 S ACD KE6QCB 329 38 7 S BD W6FC 276 19 12 S ABD	KC7KZD 40 10 4 S B Western Washington
89,320 841 77 M ABCD9E N3ADC (+N3S NFB,RSE)	KC4QWZ 49,569 288 123 S ABCDE	W6ZN 3,553 136 17 Q BCDE	KE7WS 14,382 208 47 S ABCD9E WA7UQV 6,534 173 33 S ABCDE
32,076 347 54 M ABCD9E K3DMA (+NET)	WB4JGG 22,160 211 80 S ABCD NS4W 21,093 178 89 S ABCD WB4ZUG 7,150 114 55 S ABD	KE6GFI 2,010 131 10 Q BD KE6WOX 160 40 4 Q B KI6FF (+KD6MWZ)	K7XD 3,968 114 31 S ABD AA7VT 2,037 67 21 S ABCD9E
12,475 305 25 M ABCDE W3RT (+N3HTZ)	KD4HIK 6.342 128 42 S ABD KE4JLE 5.198 113 46 S AB	8,649 222 31 L BD	W3JPT 336 36 8 S ABD
11,704 222 38 M ABCDE W3HZU (N3s NBT RBT WB3CQN)	AD4F 2,528 72 32 S ABD N4LGY 1,100 45 20 S BCD	Santa Barbara N6QOA 3,375 89 27 S ABCD	8 Michigan
4,800 125 32 M ABCDE K3CT (+KB3s BPQ,BPR,N3RXJ)	KD4NOQ 1,080 41 18 S BCD	K6VMN 1,245 83 15 S B KE6FKA 1,024 59 16 S ABCD	KU8Y 111,706 536 158 S ABCD9E
36,946 457 58 L BCD N3ORF (+N3FJA)	Virginia K9OYD/4 54,800 334 100 S ABCD9E	KD6TBE 966 62 14 S ABCD W6BKY 30 10 3 S B	K8MD 63,784 326 134 S ABCD9E
4,984 148 28 L ABD W3AD (N3s PTT,TJJ,TPL,TUO,UED.ops)	N4KWX 38,367 302 87 S ABCDE KD4UPF 25,988 262 73 S ABCD AD4DG 11,773 143 61 S ABCDE	NS6X 37,920 84 80 Q ABCD9EFGHIJKLN KØBGL (+KD6s BZN,UUN) 8,028 181 36 M ABCDE	W8KX 30,870 242 98 S ABCD K8RS 24,150 258 75 S ABCDE
3,780 140 27 L AB W3ZGD (KA3LJL,N3s UOO,VQH,VOI,ops)	K4FTO 10,164 188 42 S ABCD	8,028 181 36 M ABCDE Santa Clara Valley	K8NNU 21,797 242 71 S ABCD KG8XM 20,088 249 72 S ABCD
1,425 90 15 L BD Maryland-DC	N4BG 1,768 63 26 S ABD AD4TJ 1,178 62 19 S AB KF4NSH 1,161 41 27 S ABD	W6IT 5,536 122 32 S ABCDE AB6SO 2,625 76 21 S ABCDE	K8KD 16,835 259 65 S AB NQ8A 16,650 141 75 S ABCD9E
K1RZ 188,649 777 153 S ABCD9EF WB2DNE 101,475 522 123 S ABCD9E	W4LTU 1,026 57 18 S A N4MM 814 14 6 S A	N6JET 2,436 88 21 S ABD K6RFM 2,295 94 17 S ABCDE	N8NQS 10,788 174 62 S AB WB8TGY 8,162 90 53 S ABD9EF
KH2CY 21,952 246 64 S ABDE K3ZO 8,621 233 37 S AB	K4ME 560 40 14 S B WB3AKD 549 61 9 S B	WB6LRV 1,413 134 9 S B D WA6UAP 1,166 53 11 S D	K8NFT 6,900 128 50 S ABCD WD8BKM 5,289 83 41 S BDE
N3HBX 7,380 157 41 S ABD W3MR 3,480 110 30 S ABD	AD4NJ 390 25 13 S ABCD W4KK 60 15 4 S B	W7KKE 930 64 10 S ABD W6ISO 708 59 12 S B	N8CGY 5,175 103 45 S ABD K8ET 4,720 106 40 S ABD
KA3TCC 3,312 116 24 S ABD W3GN 1,320 55 24 S AB	WD4GSM (KC4ATS,KE4SCJ,KF4NSH, N4FPR,ops)	N6NZ 672 36 12 S BDE KN6PE 488 44 8 S BD	W8WNX 3,570 105 34 S A N8PJP 2,813 73 29 S ABCD
WB2BZR 1,260 53 14 S ABCDE N3BWJ 819 62 13 S ABD	4,532 75 44 L ABCD	KA6SIQ 15 4 3 S BD KD6PIW 200 25 8 Q AB	NEBI 2,538 54 27 S ABCDEF N8BNE 1,782 66 27 S A
N3UMA 704 64 11 S B N3XFO 520 39 13 S ABD NR4M 456 60 6 S BD	5 Askanasa	WA6RNC (+WB6W) 1,056 86 12 L BC	KG8ZF 1,426 51 23 S BD N8XKZ 1,239 59 21 S B W8SGR 792 43 18 S ABD
NR4M 456 60 6 S BD N3WKE 384 64 6 S B W3LMC 175 25 7 S B	Arkansas Kaonno (+NOEOQ)	San Diego KE6NRO 3,336 111 24 S ABD	W8SGR 792 43 18 S ABD KB8MBC 704 32 22 S A N8ZVB 481 37 13 S AB
N3WGC 148 36 4 S BD N3XFM 112 28 4 S AB	4,131 75 51 L ABCD Louisiana	KD6EFQ 2,520 103 15 S ABCD W6OYJ 2,128 75 19 S BCDI	KCBDPT 24 8 3 S AB K8EB (+KF8QL,KG8PZ)
K3UAL 112 28 4 S AB WATI /3 49 818 267 114 O ABCD9E	N5MYH 1,943 59 29 S ABD W5FYZ 646 38 17 S B	K6IAH 126 21 6 S AB KE6SDQ 114 18 6 S BD	17,226 229 66 L ABD WA8RLI (+KA8UHG,KB8ZAU,KE4JDW.N8OEO)
W3IP (+K3HH,N3s CBJ,FNE,WB6VGI,WG3R) 118,708 602 118 M ABCD9EFI	N5VVB (+N5UXT) 496 27 16 L ABD	KD6DHB (+KC6s LVG,TMB,KE6VAW) 198 14 11 L ABCD	8,240 171 40 L ABCD N8CTJ (+KC8s AQH,CJZ,WJ8X)
N3XLW (+W3CQH) 3,171 137 21 L ABD	New Mexico	San Francisco KEGUWK 318 53 6 Q B	4,192 131 32 L AB KC8ALA (+N8PVT)
KB8VLI (+KB9PIV) 1,710 85 18 L ABD	K5RHR 8,712 140 44 S ABCD N5XZM (DM65) 2,288 65 26 S ABCDE	WA6KLK (+WD6HDY) 14,147 244 47 L ABDE	88 11 8 L B Ohio
Western Pennsylvania NO3ł 34,476 248 102 S ABDE_	2,288 65 26 S ABCDE N9KUW 2,162 76 23 S ABD W5DO 1,298 49 22 S ABD	San Joaquin Valley	WA8WZG 467,712 754 256 S ABCD9EFGHI KE8FD 167,800 529 200 S ABCD9E
AA3GM 11,907 140 63 S ABCDE KA3SDP 11,446 148 59 S ABD	KB5ZSK 780 42 13 S ABCD W5FF 325 25 13 S A	N6AJ 15,792 190 56 S A BDE N7STU 12,188 175 44 S B DE	WABNUR 161,980 591 178 S ABCD9EF KB8ZW 56,394 350 117 S ABCDE
N3PUR 5,698 154 37 S A W3BBO 4,680 102 39 S ABD	WA5DJJ 234 21 9 S ABCD	K6ALE 9.652 199 38 \$ ABCD WJ6T 7.839 150 39 \$ ABD	K8TOK 36,059 212 107 S BCDE K8MR 35,816 316 88 S ABCD
N3YBE 4,142 99 38 S ABCD K3TLP 2,016 63 32 S AB	North Texas KY5N 4,992 128 39 S AB	K6YK 5,670 173 27 S BC D W6KOC 5,508 98 36 S ABDE N6IFW 3,168 132 24 S AB	WA8TJL 33,904 220 104 S ABCD9E N8ZJN 24,444 197 84 S ABCDE
W3OOM 544 34 16 S A W3KJM 378 27 14 S A	KK6IT 4,256 152 28 S B KD4HUR 3,729 93 33 S ABD	KD6RRV 259 37 7 S B	KE8RO 22,550 227 82 S ABD KC8CSD 19,824 190 84 S ABD
W3HDH 180 15 12 S A W3ZA 153 17 9 S AB	KK5DY 2,996 107 28 S B KC5VQD 1,540 30 22 S ABCD9EI	KF6CNV 216 36 6 S B KG6AO 24 6 4 S B KK6KE 17,874 215 54 Q ABCDE	WD8AML 9,699 134 53 S ABD WD8BHO 9,381 129 53 S BD
KA3JWJ 121 11 11 S A KA3AVB 108 18 6 S AB	KB5OAI 1,026 49 19 S ABCD KB5UBE (+WA50JB)	KCGUCN (+KB6HRB,KE6IPA,KF6s DDT,DST) 19.140 282 44 M ABCDE	WB8AUK 7,600 118 50 S ABD KG8XU 6,683 134 41 S ABCD
NB4J 66 11 6 S B N3WAV 40 8 5 S AB	15,280 205 40 M ABCD9EHIJP WA5VKS (+KC5LBE) 7,689 184 33 L ABCD	WA6YDI (+K6MI,KC6QPO) 18,444 225 53 M ABCDE	WABRUF 6,426 100 51 S ABD9E WABAE (WABSMO,op)
WB8EIY 35 7 5 S A N3KJB 24 6 4 S A	KA5BOU (+N5RDB) 6,601 110 41 L ABDE	Sacramento Valley	5,805 124 43 S ABC KB8YKR 5,043 100 41 S ABD KB8YUJ 4,000 80 40 S ABD
K3MJW (KA3s JWJ,WSW,N3WAV,ops) 2,128 70 28 L ABD	KC5ONJ (+KA5VAN,KC5s MGL,QKZ) 2,619 87 27 L ABD	N6KBX 16,170 230 55 S ABD KC6ZWT 15,680 253 40 S BCD	W8OUD 3,959 83 37 S 8D
4	Oklahoma	KA6VQV 12,048 186 48 S ABCD WA5YWC 7,848 172 36 S ABD KE6DPV 5,518 136 31 S ABDE	W1FEZ 3,672 88 36 S BD WABRCN 3,192 114 28 S AB NBQQB 3,131 B7 31 S ABD
Alabama KE4HJQ 5,160 101 43 S ABCD	WØRRY 12,998 157 67 S ABDE N5TML 3,861 77 39 S ABD	KE6DPV 5,518 136 31 S ABDE KF6FEE 4,930 137 29 S ABCDE KD6VNQ 4,116 128 28 S BC	KBBUUZ 2,890 85 34 S AB WARGMT 2,850 95 30 S A
KD4FMN 738 36 18 S ABD KF4KVH (AB4UP,KD4MQA,N4GKE,WA4III,ops)	KB5YAJ 1,534 58 26 S ABD KC5UZY 777 37 21 S AB KC5UGY 221 17 13 S AB	K6FO 2,508 120 19 S ABD W6JEX 1,105 56 17 S BCD	WA8TWM 2,754 68 34 S ABD N8SSH 2,600 100 26 S B
6,580 127 47 L ABCD Georgia	KC5UGY 221 17 13 S AB KA0BEI 105 15 7 S B WD5AGO (+KC5RBH)	KE6NTZ 376 39 8 S BD K6PU 16 4 2 S D	N8CCC 2,555 65 35 S ABCD KB8STK 2,511 71 27 S BD
KD4HLG 12,636 191 54 S ABCD	13,035 111 55 L BDEP		KF8VB 2,496 81 26 S ABD
			DET June 1007 10

K8AB 2,346 101 23 S BD N8IBW 2,106 64 27 S ABD N8FTL 1,452 52 22 S ABD KBBWZZ 1,232 67 16 S ABD W8ILC 1,200 58 20 S ABD KT8U 1,071 51 21 S AB	KD6RXT 616 50 11 S ABD W9PMJ 324 81 4 S B K9RU 12,096 165 63 L ABD WD9DSN (+WD9DSP) 3,379 109 31 L AB Wisconsin	KBØWUK 1,224 142 8 S BD KBØNMN 1,164 79 12 S BCD WØPHD 1,104 32 23 S ABDE NØGHP 1,100 80 10 S ABCD WBØSSK 1,070 89 10 S BD NØVUQ 1,036 74 14 S B NØSUQ 1,010 76 10 S ABD	Marine Mobile KS4KP 190 19 Rovers USA	10 S AB
KGBTL 897 58 13 S ABD N8PZD 715 55 13 S AB NBD NBCXC 468 34 13 S ABD NBCXC 468 372 29 12 S BD KBBRXY 132 32 3 S BD WASSMH 105 25 3 S BC NBTOT 96 32 3 S AB KBBWCV 81 24 3 S BD KC3AGH 78 26 2 S BD KC3AGH 78 26 2 S BD NBLIS 66 27 2 S BD NBLIS 66 27 2 S BD NBCWJ 50 18 12 S BD NBCWJ 48 18 2 S BD NBCWJ 48 17 2 S BD NBCWJ 48 18 2 S BD NBCWJ	WOUC/9 96,726 486 147 S. ABCDBEFGI AA9AO. 81,357 437 141 S. ABCDE WF9X 33,370 250 94 S. ABCDE K9BZ 25,860 368 60 S. ABD KA9HIKL 15,048 179 72 S. ABCD WA9SUWJ 14,700 153 75 S. ABCDE N9YKE 13,365 170 55 S. ABCDE N9HMU 11,656 163 62 S. ABCD WA9PWP 9,000 180 50 S. AB N9JR 7,288 112 45 S. ABCD N9DZD 6,532 84 46 S. ABDE N9UDR 5,628 121 42 S. ABD N9UUR 5,660 94 39 S. ABCDE NØAKC 5,207 103 41 S. ABCD	NØSUO 1,010 76 10 S ABD WØLER 936 56 12 S BD NØNAS 910 75 10 S ABD WØOHU 832 50 13 S BD NØON 759 62 11 S BD WØIBM 748 53 11 S BD KE4KE 744 58 12 S BCD NØVUR 696 58 12 S BCD NØWTR 672 71 7 S ABD WBØTDN 657 61 9 S BCD WAØRSE 657 44 9 S BDIJ NØUHV 640 47 10 S ABD AABSM 539 67 7 S BD KBØTEH (EN34) NØPDD 392 45 7 S BD	WO2P 37,760 484 KA2CKI 34,408 359 N2KXS 29,055 362 N3KKM (+N3XUD) 16,744 304 NW2T 5,635 79 N3LJK (+K3YWY) 3,240 98	51 R ABCD9EFGHIP 6 40 R ABCD9EF 4 46 R ABCD9EF 6 39 R ABCD9EI 4 46 R ABCD 7 23 R ABCD 923 R ABCD9EFGHIJ 3 27 R ABC 6 10 R BD 2 8 R B 4 5 R B 3
KABRIQ 34 12 2 S BD KFBEF 24 9 2 S BD WBIDM 10 10 1 S B KCBBUN 15.879 183 67 Q ABCD NBXA 5.781 97 41 Q ABCD9E WBULC (+WBLR.WFBZ) 159,344 610 184 M ABCD9E WABBCA (K8DSIQ.III)WW.ops) 34,207 433 79 L A KBBUHY (+KBSSRQ.NBSPW) 4,773 113 37 L ABD KBKRG (KBBs AOX, VKF.NBPZD.ops) 819 63 13 L AB	KF9YR 4,428 108 41 S AB N9ISN 4,181 107 37 S ABD WA9LZM 3,234 88 33 S ABD N9WHR 3,190 110 29 S AB WA9CO 2,924 57 34 S ABD9E N9TD 2,574 63 33 S BD N9NGH 2,464 119 14 S BCD KA9LCP 2,204 62 29 S ABD WA9HCZ 2,204 67 26 S BD WA9HCZ 2,204 67 26 S BD WA1UJU/9 1,936 88 22 S B N9UBS 1,771 58 29 S ABD K9OSH 1,5556 62 24 S ABD WA9KVS 1,559 57 27 S ABD	WAORLY 385 30 11 S ABCD KØEN 384 51 6 S BD KGØZT 378 48 7 S BD WOKRA 357 13 7 S BCDEFGH WDØHHH 294 49 6 S B KBØOFF 245 49 5 S B NØMGY 225 36 5 S BD KBØRZ 222 37 6 S B WBØGGM 189 8 7 S ABCDEFI KØCV 182 17 7 S BCD KBØLCP 170 34 5 S B NØACD (EN33) 148 37 4 S B WBØFWI 144 24 6 S AB KBØOFS 140 35 4 S B	N9VZX 11,820 136 N9SFN 11,100 126 N8KWX 8,748 225 K9JK 5,876 148 N9KS 3,861 117 K9TMW 2,816 121 KA9BXG 2,336 67 WA9FIH 1,320 60 N9VZK 702 53 N9QOB (+KB9LSP)	38 R ABCD 6 60 R ABCD 12 60 R ABCD 12 7 R ABCDP 4 26 R ABCDP 4 33 R AB 8 22 R BD 4 29 R BD 3 15 R ABCD 2 13 R BD 3
K2UOP/8 81,270 349 129 S ABCDDE NBXUR 14,760 176 60 S ABCDE WBZP 11,682 136 66 S ABCDE W3HOK 1,539 57 27 S B N3IWJ 735 35 21 S AB WB8BEL 540 27 20 S A WA8WW 459 27 17 S B K8JF (K8LG, WA8VCG, WDBAFJ, WF8X, ops) 585 39 15 L B	N9CIQ 1,485 43 27 S ABD ND2Z 1,485 45 27 S ABD ND9Z 1,485 45 27 S ABD ND9DH 1,350 54 25 S AB N9DDH 1,350 54 25 S AB WW1M 1,340 53 20 S ABCD WB9YZU 1,220 61 20 S AB NPROX 1,150 41 25 S ABD KB9JIF 1,120 56 20 S AB KF9V 840 45 15 S ABD NPOO 825 55 15 S B	KBØYAE (EN33) 84 20 4 S BD KØKTY 76 9 4 S B KØKTEJ 46 23 2 S B NØADO 40 20 2 S B WBØLSG 38 19 2 S B NØPGG 36 18 2 S B NØPGG 36 18 2 S B NØCET 33 11 3 S B KØPSH 33 11 3 S B KØPSH 33 11 3 S B KØPKJ 16 8 2 S B WØPLD 12 12 1 S B	KC0P 4.896 171 AB0DE 342 47 KA0CRO 280 35 KB0TEH 85 17 Delta KF40HL 10,556 148	26 R BD9EFG 4 24 R ABDE 6 6 R BD 2 4 R B 4 5 R B 2 26 R BDEIP 6 34 R ABCDE 9
9 Illinois N2BJ 149,641 700 151 S ABCD9E K9ZZE 14,664 250 52 S ABD K9FW 14,573 247 59 S A N9WRO 12,105 191 45 S ABCD9E W9IX 11,662 228 49 S ABD WA9FIH (EN61)	N9KRO 770 47 14 S ABD W9KHH 495 33 15 S B N9PBA 492 40 12 S ABC W9NVK 451 41 11 S B N9NOF 350 27 10 S ABD N9NDP 256 30 8 S BC N9UDX 198 19 9 S BD K9YGE 88 11 8 S B NIE (+WB9UJAI)	KB0RZW 12 12 1 5 B	Great Lakes AB4CR 143,606 497 1 N8ZCA (+KB8RXC) 6,633 163	18 R ABCD9EFIJ 10 33 R ABCD 12 39 R ABCD 4 9 R B 3
10,824 262 33 S ABCD	27,594 N9WBH (+N9WVD) N9WBH (+N9WVD) S025 125 45 L AB WA9SZH (+N9XIX) 504 28 18 L AB Colorado N0EC 34,680 243 85 S ABCD9EFI	NOZSY 1 1 1 S B KBØWDM 1 1 1 S B NOHZN 1 1 1 S B NOWCB 588 60 7 Q BCD KBØYAE 322 37 7 Q BD KGØZT (EN33) 110 22 5 Q B NOVUQ (EN33) 110 22 5 Q B NOVUR (EN33) 105 21 5 Q B NOPUJ 42 21 2 Q B KBØRZZ (EN34) 16 4 2 Q D	13,580 215 N2MNZ 6,820 167 KD2NE 3,320 132 KB2OPU 2,457 101 N2OPJ 1,440 139 N2UID (+KB2SRI) 810 64 N2XSE 770 53 KG2JE 608 76	28 R ABCDIJ 4 31 R BD 10 20 R ABD 10 21 R BC 4 21 R BC 4 10 R BC 3 11 R BD 3 11 R BD 3
W9AVB 3,400 136 20 S ABCD WA9CJZ 3,312 176 16 S ABD WA9RIJ 2,916 202 12 S ABD W9NHX 2,282 146 14 S ABD N9TUQ 2,002 132 13 S ABD W9CEJ 1,680 140 12 S B N9TUP 1,482 101 13 S ABD N9SXG 1,152 113 8 S BD	KOGU 17,325 208 75 S ABCD KOPAZ 14,168 109 56 S BCD9EFI NOIVN 11,357 180 41 S ABCD9EI WOETT 1,748 58 23 S ABDE KBOTKR 1,449 58 23 S ABD KBOSZG 684 51 12 S ABD ACSIO (+KØUK,KEELH-L,OPS) 1,554 55 21 M ABCDE WØTM (+WØKEA)	KØPSH (EN34) 14 7 2 Q B KBØWVD 4 2 1 Q D NØHBK 2 2 1 Q B NØHBS (+N0WYH) 12 4 2 L BD Missouri KØWR 5,880 102 49 S ABD KBØSXS 4,305 86 41 S BD	KJ1K (+N1MU) 26,977 302	7 R B 3 6 R BCDHI 0 8 R B 3 93 R BCD9EFG 10 53 R ABCD9EFGH 6
WN9GUC 1,148 70 14 S ABD KW9KW 1,140 38 30 S AB KV9Y 988 66 13 S BD WB9WFR 938 67 14 S AB N9YZK (EN61) 870 124 6 S BD W9NSF 854 100 7 S BCD K9ZWU 819 78 9 S ABD K9YGN 737 59 11 S ABCD K9ZWV 720 77 8 S ABD AKSY 636 159 4 S B	912 38 19 L ABCD	KOTLM 1,836 59 27 S ABCD	N1TX 3,480 95 N1SJK 2,826 129 Northwestern KR8L (+KABTER) 297 27 K7SQ 286 26 Pacific	32 R BD 9 24 R ABDE 2 18 R ABD 3 11 R AB 3 11 R B 2
N9OBE 544 32 17 S A KG9H 430 38 10 S ABD W9ZZU 404 101 4 S B K9LPL 404 101 4 S B KA9VOX 360 60 6 S B K9DOU 352 41 8 S ABC W9DGJK 336 43 7 S ABC K9TMW (EN61) 316 79 4 S B	WQØP 32,476 208 92 S ABCDBEHI NØLL 29,298 214 114 S ABCDE NØFFO 9,204 104 52 S ABDE WØRT 4,905 91 45 S ABD NØLIE 2,697 87 31 S B WØONX 455 50 7 S BD KBØOMF 420 30 14 S B KAØKAN 72 12 6 Q AB KFØM (+NØZHA) 9,296 122 56 L BCD	N0W, 946 43 22 S B N0YNP 608 22 16 S ABCDE South Dakota WB0HHM 4,042 72 43 S ABCD KGMW 851 37 23 S AB Canada New Brunswick Now Brunswick	KM6RH 5,797 130 KE6BZY 5,404 103 KQ6DI 4,775 93 K6LS 348 29 Rocky Mountain NK5F 6,897 159 NØUGY 910 21	82 R ABD 18 31 R ABCOE 6 28 R BCOE 7 25 R BCOE 2 12 R B 2 33 R ABCD 5 8 R BDFI 2 11 R BD 2
N9VLL 308 77 4 S B K9LSW 268 67 4 S B W9LAU 240 37 6 S BD KFBJC 228 57 4 S B WA9GOK 212 53 4 S B K9lOG 212 53 4 S B WA9RSH 210 40 5 S BD KB9MLA 160 40 4 S B W9VA 153 17 9 S A	KGØWA (+KBØs MNZ,YHU,YWM,NSCLU) 9,288 113 54 L ABDE Minnesota NPHJZ 92,456 450 127 S ABCD9EFGI WAØBWE 50,688 360 88 S ABCD9EFGH KBØIKP 33,200 298 83 S ABCDE W0ZO 22,597 222 59 S ABCD9EI KAØRYT 16,335 203 55 S ABDE	VE9AA 1,426 46 31 S AB Quebec VEZJWH 1,554 74 21 S B VE2SHW 162 54 3 S B X12PJJ (VE2PJJ,op) 2,160 82 Q ABD VE2CUA (VA2s ECM,GTX,MRX,VE2s ARW,DUB,HFX,HKI,JTX,ops) 6,402 153 33 M ABCD	Southeastern W3EKT 8,778 176 WA5PSH 2,738 53 KD4BHH 2,139 83 AD4DY 1,320 55 Southwestern	38 R ABCD 4 37 R ABCDE 3 22 R ABD 4 24 R AB 2 21 R ABCD9EFG 5 HJJKLNOP
K9DKI 66 33 2 S B KA9UZH 58 29 2 S B N9ZKC 44 22 2 S B W9REC 40 20 2 S B W9DY 3 3 1 S B N9TZL 3,683 114 29 Q BD N9KXE 148 33 4 Q BD WD9EXD (+W9RVG) 30,240 226 112 L ABCD	КОБЈХ 13,622 190 49 S ABCDE WA2HFIVO 9,583 165 37 S ABCD9E WBØLJC 9,440 211 32 S ABD9E WØAUS 6,033 181 29 S ABCDEIJ KBØPYO 7,800 135 52 S ABCE WOOHU (EN34) 7,663 148 39 S BD KØJO 7,344 145 34 S ABCD9E KBØVUK 6,300 198 30 S ABD NCSF 6,270 200 22 S ABCD	VE2CLD (VE2s CFA,GOG,ops) 1,161 100 9 L BD Ontario VE3KDH 86,041 439 139 S ABCD9EF VA3ST 34,874 267 94 S ABCD VE3WCB 6,840 90 38 S ABCD VE3FHU 6,380 96 58 S ABCD VE3SMA 5,130 100 38 S ABCD VE3SMA 5,130 100 38 S ABCD VE3SXE 3,870 85 43 S ABC	KQ6CG 4,997 156 KQ6CU 912 50 KC6UIX 429 33 N6ZE (+KD6FOT) 135 15 West Gulf WB5VYE (+WA5ZKO)	28 R ABCD 3 19 R BCD 4 12 R BD 3 13 R AB 2 9 R B 3
WD8KHE (+N9GDK) 9,408 144 49 L ABCD Indiana KMRI 103,842 471 162 S ABCD9E W9SO 51,304 344 121 S ABCD KA9QFL 30,212 302 83 S ABCD KB9IEC 25,010 247 82 S BD KSEA 12,338 145 62 S BCD	KAGZYO 6,105 123 37 S BD KGÖBG 5,700 150 30 S ABD NOTMQ 4,525 165 25 S ABD KBÜKC 3,800 143 25 S ABD WØEPZ 3,740 139 22 S ABD AJØK 3,211 125 19 S ABCD NOUK 3,094 116 17 S ABCDE WAZYOI 2,958 113 17 S ABCDE WØLCP 2,546 114 19 S ABD	VE3OJN 1,612 46 31 S ABD VE3VPB 1,050 38 21 S ABD VE3VHB 551 29 19 S B VE3TJD 300 20 15 S AB VA3ATH 285 57 5 S B VE3BFM (+VA3FIN) 9,555 VE3TMG (+VV83DEB) 95 49 M BCD9EF	NSVBK 10,549 103 1	77 R BD 11 50 R ABD 12 31 R ABDEP 6 27 R ABCD9 3 17 R ABD9E 4
W9DZ 10,974 153 69 S ABD KB9FZQ 9,982 115 62 S ABCD N9RZY 8,046 149 54 S AB NBLUX 7,624 163 48 S AB WB9DBB 6,313 81 59 S ABCDE WB9YFE 3,840 65 48 S ABCD WA1MKE 2,106 64 26 S ABD N9EYO 2,054 79 26 S B KC9RT 1,740 58 30 S KB9NKM 1,449 63 23 5 B	NØOYQ 2,440 94 20 S ABCD KAØPOW 2,415 91 23 S ABCD KAØNAN 2,272 101 16 S ABCD W9IV1 2,176 111 16 S ABCD WGØD 2,080 73 16 S B9E WSØH 1,845 71 15 S ABCDE KBØTZA 1,670 133 10 S ABD KBØPUW 1,666 119 14 S B NØCKK 1,364 41 22 S ABCDE	12,688 204 52 L ABD Manitoba VE4AQJ 697 33 17 S BD VE4GLS 656 33 16 S ABD British Columbia VETXF 32,75 113 25 S ABD VETCYT 115 23 5 S A VETXQ 40 10 4 S AB VETXE (AVE7S BYLLMAN)	AA5C 610 36 WA2TSF 560 40 Canada	12 R ABCDHJP 2 10 R ABDE 3 14 R B 6 25 R ABCDE 4 D6WLC, N2EZS, N2VIZ,
W9ESU 1,064 51 19 S ABD KB9JKS 994 122 7 S BCD	KGØZO 1,358 92 14 S ABC KBØOBT 1,332 97 12 S ABD NØZIW 1,330 99 10 S ABCD	VE7PKE (+VE7s BKU,KNV) 516 34 12 L ABCD		<u> </u>