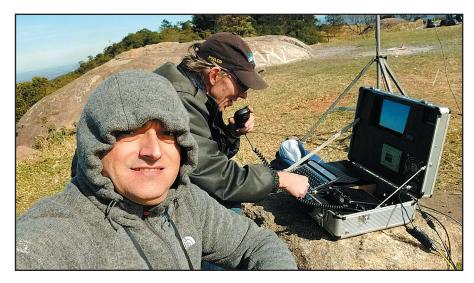
# Results of the 2017 CQ World Wide VHF Contest

BY STEVE BOLIA,\* N8BJQ

hat will the 2017 CQ World Wide VHF contest be remembered for? Certainly not stellar band conditions or a record number of entries (I wish). It will, however, be remembered as the first contest to use K1JT's FT8 software, which some believe (and some don't) will revolutionize VHF contesting.

The jury is still out on that, but it certainly made things much more interesting and generated lots of comments after the contest. I probably spent a couple more hours on the air making contacts with FT8 and MSK-144 than I normally would have. My Qs were almost evenly split between CW, SSB, and digital modes. Don't give up on the tradi-



PY2CDR and PY2LCD did a QRP multi op from Pico do Olho D'água (GG66rg).



Here's PY2CDR operating. The station consists of: FT-817ND, MOXON 6 meter, DK7ZB Light 6-element 2 meter, 60-watt solar panel 12 volts, 18-watt solar panel 5 volts, and 18-Ah batteries.

tional modes yet; CW and SSB will be around for a long time. Hopefully, the new digital modes may attract some new blood into the game.

As most of you noticed, entries are down from the record we set in 2016 — 719 vs. 905 the prior year. U.S. and other North American entries were just a few less than last year. European and Asian entries, however, were down by almost 200. Hopefully, 2018 will bring much better conditions and more activity. There were another 100 or so who made multiple Qs but didn't submit a log. Please send in a log, even if it is a check log. While I'd like all submitted logs to be computer-generated, paper logs are accepted and, as long as I can decipher your handwriting, they will be converted to Cabrillo. If you have access to a computer, there is a link on the CQWW VHF website where you can use the form that WA7BNM has created to send your paper log as Cabrillo.

Speaking of the CQWW VHF website <www.cqwwvhf.com/>, a big thanks goes to Randy, K5ZD, for bringing the site into the current century and consistent with the other CQ Contest websites. If you haven't visited it yet, please do so. You can search the results from 2000 forward. Results articles from 2005 are also available. If you are missing any certificates, those can also be downloaded.

#### USA

K2DRH wins, but without Bob. Bob had to be out of town for the contest and asked Wyatt, ACØRA, if he would like to operate the station. Wyatt was planning a major rover operation (maybe next year) and decided he couldn't pass up the opportunity. When it was all over, Wyatt had about 30 more Qs and a healthy 73-grid lead over 2016 winner Jeff, K1TEO. Both of their scores were up quite a bit from 2016. Bruce, KG6IYN, put in a good effort from Los Piños Mountain to finish third. You can read about Bruce's weekend in the Unofficial West Coast Report (see sidebar). There is also a link to a neat time-lapse video. John, N3HBX, finished fourth and John, K1OR, rounded out the top five.

On 6 meters, Jay, W9RM, dominated the field. Tom, WD5K, was second and Vince, KØSIX, finished third. Bill, W4GRW, turned in a great 2-meter score to take first place (and win a new plaque sponsored by Chuck, W5PR). Dick, K1HC, was second and AA2TT third. In the QRP Hilltopper category,

## **TOP SCORES**

WO	RLD
All Band	EM3U456
EA8DBM56,615	E7ØAA399
IT9XTP12,870	
OK1DC8,610	QRP
VE3DS8,384	UT6EY2,924
EA1ASC7,006	RK1AS2,720
	UR8GZ1,875
6 Meters	UY5ON1,512
XE2X28,635	HA2MJ1,326
9H1AE26,136	,,
VE3MMQ13,320	Rover
XE2JS13,202	VE3JAR/R11,218
AM625VQ12,512	HS3NJP/R7,040
, ,	E27DIX/R2.898
2 Meters	VA2NQ/R2,139
S56P23,280	4S7JL/R660
E24QND21,510	
OK1GTH16,376	Multi-Op
SM4GGC16,000	HA6W45,458
UXØFF10,560	HG1Z24,888
	J48KEF14,080
Hilltopper	9AØV13,940
HA1ZH/P5,863	VE3SMA12,750
HA2VR/P4,420	
IZ2JNN/IN31,032	
US	SA .

HA1ZH/P HA2VR/P IZ2JNN/IN3	4,420	VE3SMA	12,750
	US	SA	
All B	and	W9SZ	779
K2DRH	144,534	W1QK	420
K1TEO	101,084	AB1YK	416
KG6IYN	62,640		
N3HBX	41,132	QR	P
K10R	39,269	N4SVC	
		WA2TMC	6,435
6 Me	ters	K9AKS	5,252
W9RM	116,736	K2GMY	
WD5K	65,037	AD7KI	900
KØSIX			
N5JR		Rov	
K7CW	34,410	WW7D/R	
		N2SLN/R	
2 Me		KK6MC/R	
W4GRW	,	W3DHJ/R	
K1HC		AE5P/R	14,760
AA2TT	,		
N4QWZ		Multi	
W1XX	1,482	K5QE	
		K2LIM	
Hillto		K8GP	
K1ZK		W3SO	
WA7JTM	1,848	NN7AZ	/6,024

#### 2017 CQWW VHF TROPHY WINNERS AND DONORS

WORLD: Dr. Gene Zimmerman, W3ZZ Memorial. Won by: Aleksandr Maksimov, EA8DBM USA: Steve Bolia, N8BJQ Trophy. Won by: K2DRH operated by Wyatt Dirks, ACØRA

#### SINGLE OPERATOR, SINGLE BAND

World 50MHz: Dennis Motschenbacher, K7BV Trophy. Won by: Jorge Alvarado, XE2X USA 50MHz: Dennis Motschenbacher, K7BV Trophy. Won by: Keith Morehouse, W9RM WORLD 144 MHz: Bostjan Sever, S56P Trophy. Won by: Bostjan Sever, S56P USA 144MHz: Chuck Dietz, W5PR Trophy. Won by: Bill Fisher, W4GRW

USA: Northern Lights Radio Society Trophy: Won by: Darryl Holman, WW7D/R

#### **MULTI-OPERATOR**

World: Dr. Gene Zimmerman, W3ZZ Memorial (Joe Devenyi, HAØLC donor). Won by: Station HA6W operated by: HA6ZFA, HA6WX, HA5OKU, HAØMK, HAØLZ, HAØMP, HAØLO, HAØLC USA: Bob Striegl, K2DRH Trophy: Won by: Station K5QE operated by: K5QE, N5NU, N1XS, N5YA, AE5VB, K5MQ, W4KXY, K7RSM

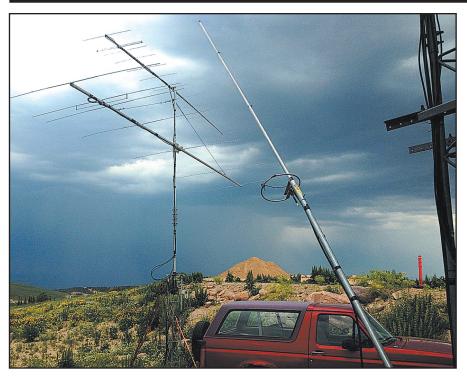
#### **CLUB**

USA: Won by: Potomac Valley Radio Club

\*Denotes awarded to runner-up in category

#### **ROVERS & GRIDS OPERATED**

	MJ96, MJ97, NJ07, NJ06, NJ09
ABØYM/R	DM79, DM78, DM88, DM89, DN70, DN71
AC7MD/R	
	EM21, EM22, EM32, EM31, EM20, EM30, EL29, EL39
	OK03, OK04
	OK02, OK03, OK04, OK05, OK06
	OK03, OK04, OK15, OK14
	EN52, EN51, EN62, EN61
	EN62, EN52
	DM65, DM64, DM74, DM75, DM63, DM73
	EM21, EM22, EM32, EM31, EM20, EL29, EL39
	FN22, FN12, FN21, FN11
N2SLN/R & KC2SFU	
N6GP/R	
	EN61, EN51, EN60, EN50
	FN45, FN35
	FN04, FN13, FN14, FN03, EN93, FN02, EN92
	FN42, FN33, FN43, FN32, FN41, FN31
	DM88, DM87, DM77, DM78
WAECVO/P	EM21, EM22, EM32, EM31, EM20, EM30, EL29, EL39
WB25IH/H	FN33, FN32
	EM21, EM22, EM32, EM31, EM20, EM30, EL29, EL39
<b>WW7D/R</b>	8, CN88, CN87, CN97, CN86, CN96, CN76, CN77, CN85



Mike, K7ULS, operated from Powder Mountain (9,000-foot elevation) in DN41.

#### with KC2SFU finished second, KK6MC was third with Jonesy, W3DHJ, in fourth, which is his best finish since 2006; and Army, AE5P, finishing fifth. There were a total of 20 rovers active this year. I'd like to thank all those who provide many Qs and mul-

tipliers from grids that may not normally be active.

**QSO & GRID LEADERS** 

S56P

9A9I. K2DRH .....

2-Meter QSOs

E24QND .....239

OK1GTH.....178

K1TEO.....164

W4GRW .....145

KG6IYN .....106

SM4GGC.....100

OK1DC.....98

K1OR.....91

K1HC.....82

UXØFF .....80

N3HBX ......65

PY2NF......64

2-Meter Grids

SM4GGC.....80

UXØFF .....66

S56P.....60 W4GRW .....52

K2DRH ......52

OK1GTH.....46 E24QND.....45

UR3EE .....45

K1OR.....43

K1TEO.....42

R6CS.....40

RD3FD .....39 RK1AS.....

OK1DC ..... R3CT.....34

6-Meter QSOs

W9RM .....608

K2DRH .....448 WD5K.....399

K1TEO.....355

KØSIX ......328

K7CW.....310

KG6IYN .....310

N\$\$KE.....275

EA8DBM.....271

NR7T.....270

W5PR.....270

WA5DM.....254 6-Meter Grids

W9RM .....192

K2DRH .....169

WD5K.....163

EA8DBM.....140 KØSIX .....134

WA5DM.....129

N5JR .....124

9H1AE.....121

NØKE .....116

XE2X .....115 WB2FKO .....115

KO9A.....113

K7CW .....111

K1TO.....111

NR7T.....111

300

286

K1TO.....

N5JR .....

NI\$\$G .....

In the Club category, the Potomac Valley Radio Club submitted 33 entries to finish first with 378,734 points and win the first USA Club champion plaque. The North East Weak Signal Group was second with 235,883 points (10 entries) followed by the Society of Midwest Contesters with 228,523 points (20 entries) and the New Mexico VHF Society with

228,037 points (14 entries).

#### DX

Aleksandr, EA8DBM, remains at the top of the DX Single-Operator, All-Band category with 56,615 points. Salvatore,

Zach, K1ZK, operated from the top of Mount Equinox in
Vermont to take first, with Pete, WA7JTM, operating from
W7A/MN-147 (Summits on the Air designator for Hedgepeth
Hills, Minnesota) in second and Zack, W9SZ, third. N4SVC
(operated by Steve, N2CEI) is the QRP champion with Bruce,
WA2TMC, second and Curt, K9AKS, finishing third.

K5QE and teammates N5NU, N1XS, N5YA, AE5VB, K5MQ, W4KXY and K7RSM are the U.S. Multi-Op champions. They survived a failure of their rotatable 2-meter antenna and losing the 6-meter station for a couple of hours. The crew at K2LIM (ops: KA2LIM, W9KXI, and KB2YCC) were second, followed by K8GP (ops: W8ZN and K1RA), W3SO (ops: W3IDT, WA3TTS, W3BTX, W3XOX, W3BC, and W3YOZ) and NN7AZ (Ops: AA7A, KC1BB, KC7V, and WO7R).

WW7D tops the USA rovers with a fine 43,000 score. You can read about Darryl's rove at <a href="http://bit.ly/2zBgEAq">http://bit.ly/2zBgEAq</a>. N2SLN

#### **CLUB COMPETITION**

(Minimum of 3 entries required for listing)

UNITED STATES		
Club Name	# Entries	Score
POTOMAC VALLEY RADIO CLUB	33	378,734
NORTH EAST WEAK SIGNAL GROUP	10	235,883
SOCIETY OF MIDWEST CONTESTERS		
NEW MEXICO VHF SOCIETY	14	228,037
PACIFIC NORTHWEST VHF SOCIETY	22	144,077
ARIZONA OUTLAWS CONTEST CLUB	18	134,651
GRAND MESA CONTESTERS OF COLORADO	9	114,770
FRANKFORD RADIO CLUB		
DFW CONTEST GROUP	5	58,564
NORTHERN LIGHTS RADIO SOCIETY	7	51,827
NACOGDOCHES AMATEUR RADIO CLUB		
FLORIDA CONTEST GROUP	11	49,558
MT AIRY VHF RADIO CLUB	6	28,870
GEORGIA CONTEST GROUP	3	26,396
SOUTH EAST CONTEST CLUB	4	21,952
CAROLINA DX ASSOCIATION		
BADGER CONTESTERS	4	16,093
SOUTHERN CALIFORNIA CONTEST CLUB	6	15,030

ROCHESTER VHF GROUP	4	12,319
YANKEE CLIPPER CONTEST CLUB	8	9,489
NORTHERN CALIFORNIA CONTEST CLUB	7	7,676
WESTERN WASHINGTON DX CLUB	3	5,828
PORTAGE COUNTY AMATEUR RADIO SERVICE		
NORTH COAST CONTESTERS	3	1,979
CTRI CONTEST GROUP		
		,-
DX		
CONTEST CLUB ONTARIO	11	53,935
HA-DX-CLUB	3	17,357
UKRAINIAN CONTEST CLUB	5	14,743
EA CONTEST CLUB	4	10,809
CROATIAN CONTEST CLUB	3	8,166
CDR GROUP		
BLACK SEA CONTEST CLUB		
YO DX CLUB		
ASOCIACION DE RADIOEXPERIMENTADORES-		ŕ
DE NUEVO LEON AC (Mexico)	3	1.106
CSM CRAIOVA (Romania)	3	402
,		

IT9XTP, was second with 12,800 points; followed by Dusan, OK1DC, with 8,600 points; Dana, VE3DS, with 8,300 points; and Anibal, EA1ASC, with 7,000 points. Jorge, XE2X, is number one on 6 meters, with Savvas, 9H1AE, in second; William, VE3MMQ, third; Emilio, XE2JS, fourth; and Gabriel. AM625VQ, operated by EA6VA, in fifth.

Bostjan, S56P, is the 2-meter champion. Nanon, E24QND, is a close second; followed by Tomas, OK1GTH; Stig-Ake, SM4GGC; and Nikolaym, UXØFF. Zoltan, HA1ZH/P, tops the Hilltopper category followed by Gyula, HA2VR/P; Stefano, IZ2JNN/IN3; Valeriy, EM3U; and Zoran, E7ØAA. UT6EY edged RK1AS for the top spot in the QRP category followed closely by UR8GZ, UY5ON and HA2MJ.

HA6W (ops: HA6ZFA, HA6WX, HA5OKU, HAØMK, HAØLZ, HAØMP, HAØLO, HAØLC) repeats as the Multi-op champion, followed by HG1Z (ops: HG1ZE, HA1XY, HG1DRD, HA2QW, HA1CC, HA2MM, HAØXX, Torma, Judit, and Nora), J48KEF (SVØFM and SV8CKJ), 9AØV (9A2YO, 9A2KK, 9A6IAB, 9A7JRV, and 9A6IAB), and VE3SMA (VA3ELE and VE3AXC).

VE3JAR/R with VE3CRU is the Rover champion (you can read about therove in the random comments or on 3830.com). HS3NJP/R came in second followed by E27DIX/R, VA2NQ/R and 4S7JL/R.

> N3HBX K370

> K3MD W3EKT

The Contest Club Ontario with 11 entries has the top non-U.S. club score with 53,935 points. The HA-DX-Club is second with 17,357 points (3 entries) and the Ukrainian Contest Club came in third with 14,743 points (5 entries).

#### The Rest of the Story

The 2018 CQWW VHF Contest will be run on July 21<sup>St</sup> and 22<sup>nd</sup>. Mark your calendar. Who knows? By then, there could be more new modes to use. You will find the rules in the 2018 May issue of CQ and on the CQWW VHF website <www.cgww-vhf.com>.

If you operate, please send in a log. Any size log is appreciated. If you need help, please ask. More logs make crosschecking logs more accurate.

Thanks to JK, K9JK, and Curt, K9AKS, for their assistance. They are quite good at finding things I screwed up. Also thanks to Champ, E21EIC, who collects all of the logs from Thailand, puts them in the right format, and gets them submitted between his travels.

Don't forget to check out the CQWW VHF website <www.cqww-vhf.com>. Comments, suggestions and corrections are always welcome. Quite a bit of the data was entered manually. If you find an error, please let me know.

Number/letter groups after call letters denote the follow-
ing: Class (A = all band, 6 = 6 meters, 2 = 2 meters, Q =
QRP, Q* = QRP portable hilltopper, R = rover. M = multi-
operator), Final Score, Number of QSOs, Number of grid
locators, State/Province (USA/Canada only), Grid Locator
or Number of grids activated (rover only). Rover scores for
USA are listed separately. Scores in bold indicate certifi-
cate winners. Score in italic are disqualified.

M 119,024 488 172 NY FN12 K1TO

	lateri	TIOVILLE I	USMICA	naua on	iy), Giii	1 Locator	W3EK1	A	7,938	109	54	MD	FIVI 19	WWPV	0	4,240	80	53	
or Number	of ar	ids activat	ed (rov	er only).	Rover s	cores for	K3DNE	Α	6,264	101	54	MD	FM19	KU8E	6	3,978	78	51	-
USA are lis							K3ZU	Α	6,136	112	52	MD	FM19	KM4HI	6	3,600	80	45	
cate winne						C CCI IIII-	WA2FGK	A	4,860	76	45	PA	FN21	NJ2F	6	2,560	64	40	
cate willie	15. 3	LUIE III II	nc are c	ıısquaiii	ieu.			А	4,000	70	43	PA	FINZ I						
							Op: K2LNS							N4PN	6	2,516	68	37	
					_		N3ALN	Α	4,704	100	42	MD	FM19	KN4Y	6	2,106	54	39	
	- 2	2017 VI	HF RE	SULTS	S		K3ISH	Α	3,612	81	43	PA	FN21	WX4US	6	1,950	50	39	
		NORT					N3XF	Α	2,312	51	34	PA	FN00	N4MM	6	1,885	65	29	
			ED ST																
							KC3FQF	Α	1,518	50	22	PA	FM29	N4DKF	6	1,872	52	36	
K1TEO	Α	101,084	519	148	CT	FN31	KR1ST	Α	1,248	37	24	PA	FN21	N4GG	6	1,848	56	33	-
K10R	Α	39,269	276	107	NH	FN42	K3UA	Α	1,131	39	29	PA	EN90	N4WW	6	1,248	48	26	
WA1T	Α	24,920	241	89	NH	FN43	K3AJ	Α	816	32	17	MD	FM19	AD8J	6	1,075	43	25	
N1JEZ	A	19,572	180	84	VT	FN44	AA3S	Α	799	40	17	MD	FM19	AC4G	6	696	29	24	
AF1T	Α	7,476	119	42	NH	FN43	W3LL	Α	735	39	15	MD	FM19	W6UB	6	520	26	20	
N1JD	Α	4,173	84	39	ME	FN44	K3SX	Α	576	29	18	MD	FM19	K2SX	6	504	28	18	
K1ZE	Α	3,402	81	42	CT	FN31	NG3W	Α	325	13	13	PA	FN01	K8EAB	6	494	26	19	-
W1BS	Α	2,800	56	40	MA	FN32	4U1WB	Α	276	23	12	MD	FM18	N4BP	6	408	24	17	
N1API	A	1,736	52	28	CT	FN31	WA3PTV	A	250	21	10	PA	FM19	NC4M	6	357	21	17	
K1GX	Α	900	29	20	CT	FN31	N3MWQ	Α	171	14	9	DE	FM29	WV4V	6	315	21	15	
N1YKH	Α	616	31	14	CT	FN41	W3RGA/M	Α	117	10	9	PA	FN10	AI4WL	6	195	15	13	- 1
KA1VMG	Α	273	20	13	CT	FN41	AF3I	Α	70	7	7	PA	FN10	KM4NYI	6	154	14	11	
W1HBR	Α	180	18	10	CT	FN31	N8HM	Α	9	3	3	MD	FM18	KK4AND	6	96	12	8	
W3EP	6	25,824	258	96	CT	FN31	K2PLF	6	18,676	203	92	MD	FM19	K4YYL	6	54	9	6	
K1TR	6	4,368	104	42	NH	FN32	N3RD	6	10,152	141	72	PA	FN20	WK4Y	6	49	7	7	
N8RA	6	1,344	42	32	CT	FN31	K3UL	6	2,856	68	42	PA	FN11	K4BSK	6	42	7	6	
W1FV	6	1,242	54	23	MA	FN42	WA3FET	6	210	15	14	PA	FN00	K4AFE	6	25	5	5	
N1WRK	6	352	22	16	MA	FN41	K6PFA	6	207	23	9	MD	FM19	N4HWH	6	20	5	4	
AG1A	6	187	17	11	MA	FN42	K3HX	6	154	14	11	PA	FN00	KM4IAJ	6	14	7	2	
W1BJ	6	84	12	7	ME	FN43	N3DUE	6	52	13	4	MD	FM19	N8AID	6	4	2	2	
W1WBB	6	72	9	8	RI	FN41	N3QE	6	14	7	2	MD	FM19	N4SVC	Q	10,366	133	73	
KA1R	6	40	10	4	MA	FN42	N3AFT	6	6	3	2	MD	FM19						
					ME			М						KOTIM	Q	204	17	12	
K1HC	2	3,444	82	21		FN53	W3S0		85,760	387	160	PA	FN00	K3TW			17		
W1XX	2	1,482	39	19	RI	FN41	K3CCR	M	6,832	108	56	MD	FM18	KC8KSK	Q	6	2	2	
K1ZK	Н	3,168	64	32	VT	FN33	W3RFC	M	5,198	93	46	MD	FM19	W4GRW	2	15,080	145	52	- 1
W1QK	Н	420	30	14	CT	FN31	WA3EKL	M	144	16	9	MD	FM19	N4QWZ	2	1,518	33	23	
AB1YK	Н	416	25	13	NH	FN32								K8GP	M	107,484	460	169	
				9			Walb		10 207	104	01	VA	EN410	KOOF	IVI	107,404	400	107	
NG1R	Н	306	17		CT	FN31	W3IP	Α	18,387	184	81		FM19						
N1PRW	Н	52	9	4	MA	FN42	KC4PX	Α	15,648	158	96	FL	EL98	WB2FK0	Α	32,240	245	124	N
K1SX	Q	180	15	12	MA	FN41	K4EA	Α	15,051	162	87	GA	EM74	W7QQ	Α	17,298	163	93	Ν
N1SOH	M	1,188	54	22	MA	FN42	KC4NX	Α		454	84	TAI	CAATE	4151				00	Ν
									13.188	151				I Albi		12.816	143		
									13,188	151		TN	EM75	AI5I WARET	Α	12,816	143	89	
Nacio		7 700					K9IL	Α	8,066	109	74	TN	EM56	WA8ZBT	A A	11,200	139	80	
N2SL0	Α	7,700	116	44	NY	FN30	K9IL WB4WXE	A A	8,066 <b>7,744</b>	109 <b>109</b>	74 <b>64</b>	TN <b>AL</b>	EM56 EM74	WA8ZBT WA5LFD	A A A	<b>11,200</b> 5,355	139 89	<b>80</b> 51	
N2SLO WB2JAY	A A	<b>7,700</b> 7,140				FN30 FN30	K9IL	Α	8,066	109	74	TN <b>AL</b> FL	EM56	WA8ZBT	A A	11,200	139	80	١
			116	44	NY	FN30	K9IL WB4WXE	A A	8,066 <b>7,744</b>	109 <b>109</b>	74 <b>64</b>	TN <b>AL</b>	EM56 EM74	WA8ZBT WA5LFD	A A A	<b>11,200</b> 5,355	139 89	<b>80</b> 51	1
WB2JAY N3RG	A <b>A</b>	7,140 <b>6,916</b>	116 118 98	44 42 52	NY NY NJ	FN30 FN30 FM29	K9IL WB4WXE WA4GPM NG4C	A A A	8,066 <b>7,744</b> 5,000 <b>4,680</b>	109 109 90 74	74 <b>64</b> 50 <b>52</b>	TN AL FL NC	EM56 EM74 EM90 FM16	WA8ZBT WA5LFD N5EPA K5AM	A A A A	11,200 5,355 5,049 4,717	139 89 87 87	<b>80</b> 51 51 53	1
WB2JAY N3RG WA2VNV	A A A	7,140 <b>6,916</b> 6,174	116 118 98 101	44 42 52 42	NY NY NJ NY	FN30 FN30 FM29 FN30	K9IL WB4WXE WA4GPM NG4C WX4G	A A A A	8,066 <b>7,744</b> 5,000 <b>4,680</b> 4,320	109 109 90 74 96	74 <b>64</b> 50 <b>52</b> 45	TN AL FL NC FL	EM56 EM74 EM90 FM16 EL87	Waszbt Waslfd Nsepa Ksam Kb7IJ	A A A A A	11,200 5,355 5,049 4,717 3,450	139 89 87 87 61	80 51 51 53 50	1
WB2JAY N3RG WA2VNV K2QO	A A A	7,140 <b>6,916</b> 6,174 3,239	116 118 98 101 71	44 42 52 42 41	NY NY NJ NY NY	FN30 FN30 FM29 FN30 FN03	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW	A A A A A	8,066 <b>7,744</b> 5,000 <b>4,680</b> 4,320 3,984	109 109 90 74 96 83	74 64 50 52 45 48	TN AL FL NC FL VA	EM56 EM74 EM90 FM16 EL87 FM18	WASZBT WA5LFD N5EPA K5AM KB7IJ KC7QY	A A A A A	11,200 5,355 5,049 4,717 3,450 3,010	89 87 87 61 62	80 51 51 53 50 43	1
WB2JAY N3RG WA2VNV K2QO N2WK	A A A A	7,140 <b>6,916</b> 6,174 3,239 2,730	116 118 98 101 71 62	44 42 52 42 41 39	NY NY NJ NY NY	FN30 FN30 FM29 FN30 FN03 FN03	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA	A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856	109 109 90 74 96 83 66	74 64 50 52 45 48 42	TN AL FL NC FL VA SC	EM56 EM74 EM90 FM16 EL87 FM18 EM92	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F	A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622	89 87 87 61 62 69	80 51 51 53 50 43 38	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ	A A A	7,140 6,916 6,174 3,239 2,730 2,624	116 118 98 101 71 62 63	44 42 52 42 41	NY NY NJ NY NY NY	FN30 FN30 FM29 FN30 FN03 FN03 FN03 FM29	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU	A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944	109 109 90 74 96 83 66 52	74 64 50 52 45 48 42 36	TN AL FL NC FL VA SC SC	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY	A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581	139 89 87 87 61 62 69 51	80 51 51 53 50 43 38 31	1
WB2JAY N3RG WA2VNV K2QO N2WK	A A A A	7,140 <b>6,916</b> 6,174 3,239 2,730	116 118 98 101 71 62	44 42 52 42 41 39	NY NY NJ NY NY	FN30 FN30 FM29 FN30 FN03 FN03	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA	A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856	109 109 90 74 96 83 66	74 64 50 52 45 48 42	TN AL FL NC FL VA SC	EM56 EM74 EM90 FM16 EL87 FM18 EM92	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F	A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622	89 87 87 61 62 69	80 51 51 53 50 43 38	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG	A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304	116 118 98 101 71 62 63 52	44 42 52 42 41 39 32 36	NY NJ NY NY NY NY NJ NY	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP	A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872	109 109 90 74 96 83 66 52 45	74 64 50 52 45 48 42 36 36	TN AL FL NC FL VA SC SC KY	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79	WASZBT WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KG5UCA/R	A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462	139 89 87 87 61 62 69 51 40	80 51 51 53 50 43 38 31 34	N
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI	A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342	116 118 98 101 71 62 63 52 45	44 42 52 42 41 39 32 36 22	NY NY NY NY NY NY NY NY	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN12	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK	A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820	109 109 90 74 96 83 66 52 45 51	74 64 50 52 45 48 42 36 36 35	TN AL FL NC FL VA SC SC KY NC	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03	WASZBT WASLFD NSEPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV	A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290	89 87 87 61 62 69 51 40 42	80 51 51 53 50 43 38 31 34 30	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH	A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064	116 118 98 101 71 62 63 52 45 34	44 42 52 42 41 39 32 36 22 19	YN VN LN YN YN VN VN VN VN	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK K4FJW	A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750	109 109 90 74 96 83 66 52 45 51	74 64 50 52 45 48 42 36 36 35	TN AL FL NC FL VA SC SC KY NC VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86	WASZBT WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R WSTV NH7RO/W5	A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140	89 87 87 61 62 69 51 40 42 37	80 51 51 53 50 43 38 31 34 30	11
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA	A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850	116 118 98 101 71 62 63 52 45 34 32	44 42 52 42 41 39 32 36 22 19	YN VY VY VY VY VY VY LV LV VY	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20 FN20	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK K4FJW W3CP	A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590	109 109 90 74 96 83 66 52 45 51 40 42	74 64 50 52 45 48 42 36 36 35 35 30	TN AL FL NC FL VA SC SC KY NC VA GA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ	A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627	89 87 87 61 62 69 51 40 42 37 33	80 51 51 53 50 43 38 31 34 30 30	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH	A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064	116 118 98 101 71 62 63 52 45 34	44 42 52 42 41 39 32 36 22 19	YN VN LN YN YN VN VN VN VN	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK K4FJW	A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750	109 109 90 74 96 83 66 52 45 51	74 64 50 52 45 48 42 36 36 35	TN AL FL NC FL VA SC SC KY NC VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86	WA8ZBT WA5LFD N5EPA K5AM K87IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5	A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140	89 87 87 61 62 69 51 40 42 37	80 51 51 53 50 43 38 31 34 30	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT	A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850	116 118 98 101 71 62 63 52 45 34 32	44 42 52 42 41 39 32 36 22 19	YN VY VY VY VY VY VY LV LV VY	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20 FN20 FN20	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK K4FJW W3CP K4MM	A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380	109 109 90 74 96 83 66 52 45 51 40 42	74 64 50 52 45 48 42 36 36 35 35 30	TN AL FL NC FL VA SC SC KY NC VA GA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R WSTV NH7RO/W5 W5GZ N5SJ	A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627	139 89 87 87 61 62 69 51 40 42 37 33 18	80 51 51 53 50 43 38 31 34 30 30 19	11
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO	A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112	116 118 98 101 71 62 63 52 45 34 32 22 14	44 42 52 42 41 39 32 36 22 19 17	YN VY VN YN YN VN LN LN LN YN VN	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20 FN20 FN31	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646	109 109 90 74 96 83 66 52 45 51 40 42 46 19	74 64 50 52 45 48 42 36 36 35 35 30 30	TN AL FL NC FL VA SC SC KY NC VA GA FL NC	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EM95	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ KV5TX	$ \begin{smallmatrix} A & A & A & A & A & A & A & A & A & A$	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208	139 89 87 87 61 62 69 51 40 42 37 33 18	80 51 51 53 50 43 38 31 34 30 30 19 13	11
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO WB2UJS	A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310	116 118 98 101 71 62 63 52 45 34 32 22 14	44 42 52 42 41 39 32 36 22 19 17 13 8 33	NY N	FN30 FN30 FM29 FN30 FN03 FN03 FN029 FN12 FN20 FN20 FN20 FN31 FN30	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC KØVXM	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475	109 109 90 74 96 83 66 52 45 51 40 42 46 19	74 64 50 52 45 48 42 36 36 35 35 30 30 19	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EM95 EL98	WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV W5TV W5TV W5GZ N5SJ KV5TX KD5GEN	$ \begin{smallmatrix} A & A & A & A & A & A & A & A & A & A$	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126	139 89 87 87 61 62 69 51 40 42 37 33 18 16	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7	11
WB2JAY N3RG WA2VNV K200 N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO W82UJS K2TV	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23	NY N	FN30 FN30 FM29 FN30 FN03 FN03 FN02 FN20 FN20 FN20 FN20 FN31 FN30 FN30 FN30	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646	109 109 90 74 96 83 66 52 45 51 40 42 46 19	74 64 50 52 45 48 42 36 36 35 35 30 30	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EL98 FM07	WASZBT WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R WSTV NH7RO/W5 WSGZ N5SJ KV5TX KD5GEN AGSS	$ \begin{smallmatrix} A & A & A & A & A & A & A & A & A & A$	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104	139 89 87 61 62 69 51 40 42 37 33 18 16 13	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO WB2UJS K2TV K2XA	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20	YN YN LN YN YN YN YN YN YN LN LN YN	FN30 FM29 FN30 FN30 FN03 FN03 FN29 FN12 FN20 FN20 FN31 FN30 FN30 FN30 FN32	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU W8KHP K5EK K4FJW W3CP K4MM N1GC KØVXM W4ML	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475 450	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 30 30 19 19	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op:	EM56 EM74 EM90 EL87 FM16 EL87 FM18 EM93 EM93 EM79 FM03 EM86 EM74 EL97 EM95 EL97 EL97 W4MYA	WARZBT WASLFD WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R WSTV NH7ROWS W5GZ N5SJ KV5TX KD5GEN AG5S KSTMT	$ \begin{smallmatrix} A & A & A & A & A & A & A & A & A & A$	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8	11
WB2JAY N3RG WA2VNV K200 N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO W82UJS K2TV	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23	NY N	FN30 FN30 FM29 FN30 FN03 FN03 FN02 FN20 FN20 FN20 FN20 FN31 FN30 FN30 FN30	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC KØVXM	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475	109 109 90 74 96 83 66 52 45 51 40 42 46 19	74 64 50 52 45 48 42 36 36 35 35 30 30 19	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EL98 FM07	WASZBT WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R WSTV NH7RO/W5 WSGZ N5SJ KV5TX KD5GEN AGSS	$ \begin{smallmatrix} A & A & A & A & A & A & A & A & A & A$	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104	139 89 87 61 62 69 51 40 42 37 33 18 16 13	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7	1
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO WB2UJS K2TV K2XA K2SSS	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 1,342 1,064 850 455 112 2,310 989 900 442	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20 17	YN YN YN YN YN YN YN YN LN LN LN LN YN	FN30 FM29 FN30 FN03 FN03 FN03 FM29 FN12 FN20 FN20 FN20 FN20 FN31 FN30 FN30 FN32 FN32 FN32	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC KØVXM W4ML	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475 450	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 35 30 30 19 19 15	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op:	EM56 EM74 EM90 EL87 FM16 EL87 FM18 EM92 EM93 EM95 EM96 EM74 EL97 EM95 EL98 FM07 W4MYA FM16	WASZBT WASLFD NSEPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R WSTV NH7RO/W5 W5GZ N5SJ KV5TX KD5GEN AG5S KSTMT WD5K	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3	11
WB2JAY N3RG WA2VNV K2QO N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO W82UJS K2TV K2XA K2SSS WA2ACV	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26 8	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20 17 6	YN YN YN YN YN YN YN YN YN LN LN LN YN	FN30 FM29 FN30 FN03 FN03 FN03 FM29 FN12 FN20 FN20 FN31 FN30 FN31 FN30 FN31 FN30 FN32 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN31 FN31 FN31 FN31 FN32 FN32 FN32 FN32 FN32 FN32 FN33 FN33	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC KØVXM W4ML K5VIP K5VIP KE1F	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,750 1,380 646 475 450	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 35 35 30 19 19 15	TN AL FL NC FL VA SC SC KY NC GA FL NC FL VA Op: VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM74 EL97 EM95 EM95 EM95 EM95 EM97 EM95 EM97 EL98 FM07 W4MYA FM16	WABZBT WASLFD WASLFD NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R WSTV NH7RO/WS WSGZ NSSJ KV5TX KD5GEN AG5S K5TMT WD5K NSJR	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 3 11 3 399 286	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 8 3 163	11
WB2JAY N3RG WA2VNV K2OO N2WK W2SJ N2BEG K2AMI N2OA W2BUT N2OA W2USO WB2UJS K2TV K2XA K2SSS WA2ACT AA2TT	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26 8 61	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20 17 6	YN	FN30 FN30 FM29 FN30 FN03 FN03 FN20 FN20 FN20 FN20 FN31 FN30 FN30 FN32 FN31 FN30 FN32 FN31 FN30 FN32 FN31 FN30 FN32 FN31	K9IL WB4WXE WA4GPM NG4C WX4G K4ZW WA4G K4ZW WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC K0VXM W4ML KSVIP KE1F W4AMP	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,750 1,380 646 475 450	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 35 30 19 19 15	TN AL FL NC SC SC KY NC VA GA FL NC FL VA Op: VA FL CA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM79 EL97 EL97 EL97 EM95 EL97 W4MYA FM16 EL99 EM73	WARZET WASLFD NSEPA KSAM KB7IJ KC70Y AJ4F KSLY KGSUCA/R WSTV NH7RO/W5 WSGZ NSSJ KV5TX KD5GEN AG5S K5TMT WD5K NSIR	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464 32,766	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3 399 286 254	80 51 51 53 50 43 38 31 34 30 30 19 13 7 8 3 3 163 124 129	1
WB2JAY N3RG WA2VNV K200 N2WK W2SJ N2BEG K2AMI W2BVH N20A W2UDT N2SO W2UST K2TV K2XA K2SSS WA2ACV AA2TT WZKV/Z	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 456	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26 8 61 19	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20 17 6 19	YN	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20 FN31 FN30 FN31 FN30 FN32 FN32 FN32 FN32 FN32 FN32 FN32 FN33	KOIL WB4WXE WA4GPM NG4C WX4G WX4G WX4L WA4LDU W8KHP KSEK K4FJW W3CP K4MM N1GC KØVXM K5VIP KE1F W4AMD	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,380 646 475 450 338 336 304 154	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 30 30 19 15 13 16 16 11	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op: VA FL GA GA GA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM74 EL97 EL97 EL98 FM07 FM06 EM74 EL97 EL97 EL98 FM07 EM95 EL98 FM07 EM95 EM95 EM95 EM95 EM95 EM95 EM95 EM95	WASZET WASLFD NSEPA KSAM KB7IJ KC70Y AJ4F KSLY KG5UCA W5TV W5UC NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDR WASPR	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 627 325 208 126 104 9 65,037 35,464 32,766 28,350	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3 399 286 254 270	80 51 51 53 50 43 38 31 34 30 30 19 13 7 8 3 163 124 129 105	11
WBZJAY N3RG WAZVNV K2OO N2WK W2SJ N2BEG K2AMI N2OA W2BUH N2OA W2UDT N2SO WBZUJS K2TV K2XA K2SSS WAZACV AA2TT W2KV/2 N2DCH	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 456 2	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26 8 61 19	44 42 52 42 41 39 32 36 22 19 17 13 8 33 20 17 6 19	YN Y	FN30 FN30 FN29 FN30 FN03 FN03 FN02 FN12 FN20 FN20 FN30 FN30 FN30 FN30 FN30 FN30 FN30 FN3	KOIL WBAWXE WA4GPM NG4C WX4G KA7W KKAMA WA4LDU WBKHP KSEK K4FJW W3CP K4MM N1GC K5VXM W4ML KSVIP KE1F W4AMP KC4JD K15FR	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,870 1,750 1,590 1,380 646 475 450	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30 18 21 17 13 12	74 64 50 52 45 48 42 36 36 35 35 30 19 19 15 13 16 16 11 10	TN AL FL VA SC SC KY NC VA GA FL VA Op: VA FL GA FL GA FL	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM93 EM86 EM77 EM95 EL98 FM07 W4MYA FM16 EL99 EL98 EM73 EM95 EL98 EM07	WASZET WASLED NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R W5TV NHTROWS W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDM WSPR WSTN	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 965,037 35,464 32,766 28,350 15,438	139 89 87 61 62 69 51 40 42 37 33 18 16 13 399 286 254 270 166	80 51 51 53 50 43 38 31 34 30 30 30 19 13 13 7 8 3 163 124 129 105 93	N
WB2JAY N3RG WA2VNV K200 N2WK W2SJ N2BEG K2AMI W2BVH N20A W2UDT N2SO W2UST K2TV K2XA K2SSS WA2ACV AA2TT WZKV/Z	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 456	116 118 98 101 71 62 63 52 45 34 32 22 14 70 43 45 26 8 61 19	44 42 52 42 41 39 32 36 22 19 17 13 8 33 23 20 17 6 19	YN	FN30 FN30 FM29 FN30 FN03 FN03 FM29 FN12 FN20 FN20 FN31 FN30 FN31 FN30 FN32 FN32 FN32 FN32 FN32 FN32 FN32 FN33	KOIL WB4WXE WA4GPM NG4C WX4G WX4G WX4L WA4LDU W8KHP KSEK K4FJW W3CP K4MM N1GC KØVXM K5VIP KE1F W4AMD	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,380 646 475 450 338 336 304 154	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 30 30 19 15 13 16 16 11	TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op: VA FL GA GA GA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM74 EL97 EL97 EL98 FM07 FM06 EM74 EL97 EL97 EL98 FM07 EM95 EL98 FM07 EM95 EM95 EM95 EM95 EM95 EM95 EM95 EM95	WASZET WASLFD NSEPA KSAM KB7IJ KC70Y AJ4F KSLY KG5UCA W5TV W5UC NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDR WASPR	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 627 325 208 126 104 9 65,037 35,464 32,766 28,350	139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3 399 286 254 270	80 51 51 53 50 43 38 31 34 30 30 19 13 7 8 3 163 124 129 105	11
WB2JAY N3RG WA2VNV K2Q0 N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO WB2UJS K2TV K2XA K2XA K2SS WA2ACT W2KVIZ N2DCH	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 456 2 6,435	116 118 98 101 71 62 63 52 45 34 32 22 21 47 70 43 45 26 8 61 19 10 10 10 10 10 10 10 10 10 10 10 10 10	44 42 52 42 41 39 32 36 22 19 17 13 8 33 20 17 6 19 12 14 5	NY N	FN30 FN30 FM29 FN30 FN03 FN03 FN12 FN20 FN20 FN31 FN30 FN31 FN30 FN31 FN30 FN32 FN31 FN30 FN32 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN30 FN31 FN30 FN30 FN30 FN30 FN30 FN30 FN30 FN30	KOIL WB4WXE WA4GPM NG4C WA4CPM NG4C KA4ZW KK4MA WA4LDU WBKHP KS4FJW W3CP K4MM N1GC K6VXM W4ML K5VIP KE1F W4MMP KC4JD K16FC	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,380 646 475 450 338 336 304 154 120	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30 18 21 17 13 12 14	74 64 50 52 45 48 42 36 36 35 35 30 19 19 15 13 16 16 11 10	TN AL FL VA SC SC KY NC VA GA FL VA Op: VA FL GA FL VA FL VA FL VA FL VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM03 EM03 EM03 EM74 EL97 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EM16 EM74 EL97 EM93 EM93 EM93 EM94 EM94 EM95 EM95 EM96 EM96 EM96 EM96 EM96 EM96 EM96 EM96	WASZET WASLFD NSEPA KSAM KB7IJ KC70Y AJ4F KSLY KG5UCV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AGSS KSTMT W5FW W5FR WASDM W5PR W5TN NZIC	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 49 65,037 35,464 32,766 28,350 15,438 8,856	89 87 87 87 61 62 69 51 40 42 37 33 18 16 13 3 11 3 3 99 286 254 270 166 123	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3 163 124 129 105 93 72	N
WB2JAY N3RG WA2VNV K200 N2WK W2SJ N2BKG K2AMI W2BVH N20A W2UDT N2SO WB2UJS K2TV K2XA K2SS WA2ACV AA2TI N2DCH WA2TMC	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 2,318 456 2 6,435 154	116 118 98 101 71 62 63 32 45 34 32 22 21 44 70 43 45 8 61 19 102 21	44 42 52 42 41 39 36 22 19 17 13 8 33 20 17 6 19 12 1 145 7	NY N	FN30 FN30 FN30 FN30 FN03 FN03 FN12 FN20 FN20 FN30 FN30 FN30 FN31 FN30 FN31 FN30 FN32 FN31 FN32 FN32 FN32 FN32 FN32 FN32 FN32 FN32	K9IL WBAWXE WA4GPM NG4C WX4G K47W KK4MA WA4LDU WBKHP K5EK K4FJW W3CP K4MM N1GC K0VXM W4ML K5VIP KE1F W4AMP KC4JD K4JFR K4FIV W4AMP	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,380 646 475 450 338 336 304 154 120 110 64	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	74 64 50 52 45 48 42 36 36 35 30 30 19 15 13 16 11 10 5 4	TN AL FL VA SC KY NC VA GA FL VA Op: VA FL VA GA FL VA VA VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM92 EM97 FM03 EM86 EM74 EL97 EM95 FM07 W4MYA FM16 EL98 FM07 W4MYA FM16 EL99 EM73 EM86 FM07	WASZET WASLED NSEPA KSAM KB7IJ KC7QY AJ4F KSLY KGSUCA/R W5TV NHTROWS W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDM WSPR WSTN	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 965,037 35,464 32,766 28,350 15,438	139 89 87 61 62 69 51 40 42 37 33 18 16 13 399 286 254 270 166	80 51 51 53 50 43 38 31 34 30 30 30 19 13 13 7 8 3 163 124 129 105 93	N
WB2JAY N3RG WA2VNV K2Q0 N2WK W2SJ N2BEG K2AMI W2BVH N2OA W2UDT N2SO WB2UJS K2TV K2XA K2XA K2SS WA2ACT W2KVIZ N2DCH	A A A A A A A A A A A A A A A A A A A	7,140 6,916 6,174 3,239 2,730 2,624 2,304 1,342 1,064 850 455 112 2,310 989 900 442 48 2,318 456 2 6,435	116 118 98 101 71 62 63 52 45 34 32 22 21 47 70 43 45 26 8 61 19 10 10 10 10 10 10 10 10 10 10 10 10 10	44 42 52 42 41 39 32 36 22 19 17 13 8 33 20 17 6 19 12 14 5	NY N	FN30 FN30 FM29 FN30 FN03 FN03 FN12 FN20 FN20 FN31 FN30 FN31 FN30 FN31 FN30 FN32 FN31 FN30 FN32 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN31 FN30 FN30 FN31 FN30 FN30 FN30 FN30 FN30 FN30 FN30 FN30	KOIL WB4WXE WA4GPM NG4C WA4CPM NG4C KA4ZW KK4MA WA4LDU WBKHP KS4FJW W3CP K4MM N1GC K6VXM W4ML K5VIP KE1F W4MMP KC4JD K16FC	A A A A A A A A A A A A A A A A A A A	8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,380 646 475 450 338 336 304 154 120	109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30 18 21 17 13 12 14	74 64 50 52 45 48 42 36 36 35 30 30 19 19 15 13 16 16 11 10 5	TN AL FL VA SC SC KY NC VA GA FL VA Op: VA FL GA FL VA FL VA FL VA FL VA	EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM03 EM03 EM03 EM74 EL97 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EM16 EM74 EL97 EM93 EM93 EM93 EM94 EM94 EM95 EM95 EM96 EM96 EM96 EM96 EM96 EM96 EM96 EM96	WASZET WASLFD NSEPA KSAM KB7IJ KC70Y AJ4F KSLY KG5UCV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AGSS KSTMT W5FW W5FR WASDM W5PR W5TN NZIC	A A A A A A A A A A A A A A A A A A A	11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 49 65,037 35,464 32,766 28,350 15,438 8,856	89 87 87 87 61 62 69 51 40 42 37 33 18 16 13 3 11 3 3 99 286 254 270 166 123	80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3 163 124 129 105 93 72	N

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M	69,000	365	138	NJ	FN20	K4PI	6	17,184	179	96	GA	EM73	WN2E	6	3,744	72	52	MS	EM50
Α	41,132	299	113	MD	FM19	K1HTV	6	6,741	107	63	VA	FM18	WA2VYA	6	3,080	77	40	TX	EM10
																		TX	
Α	22,172	211	92	MD	FM18	K4BAI	6	6,696	108	62	GA	EM72	NN5T	6	2,646	63	42		EM12
Α	12,950	143	74	PA	FN10	N4MJ	6	4,806	89	54	TN	EM56	KG5IEE	6	2,052	54	38	TX	EM12
Α	7,938	109	54	MD	FM19	WØPV	6	4,240	80	53	FL	EL87	K5LH	6	2,035	55	37	TX	EM11
Α	6,264	101	54	MD	FM19	KU8E	6	3.978	78	51	GA	EM72	K5XU	6	1,813	49	37	MS	EM42
Α	6.136	112	52	MD	FM19	KM4HI	6	3,600	80	45	FL	EL89	NW5Q	6	1,364	44	31	TX	EM13
		76	45	PA	FN21	NJ2F		2,560	64	40	FL	EL96	WB5JJJ	6		39	33	AR	EM35
Α	4,860	70	43	PA	FINZ I		6							-	1,287				
						N4PN	6	2,516	68	37	GA	EM82	KE5TC	6	864	32	27	OK	EM25
Α	4,704	100	42	MD	FM19	KN4Y	6	2,106	54	39	FL	EM70	KD5J	6	806	31	26	AR	EM45
Α	3,612	81	43	PA	FN21	WX4US	6	1,950	50	39	FL	EM60	WB7PVL	6	616	28	22	TX	EM13
Α	2,312	51	34	PA	FN00	N4MM	6	1,885	65	29	VA	DM09	NM5WB	6	546	26	21	NM	DM64
	1.518		22	PA							NC	EM96			374		17		EL49
Α		50			FM29	N4DKF	6	1,872	52	36			AA5AU	6		22		LA	
Α	1,248	37	24	PA	FN21	N4GG	6	1,848	56	33	GA	EM74	W5ZF	6	340	20	17	NM	DM65
Α	1,131	39	29	PA	EN90	N4WW	6	1,248	48	26	FL	EL98	KA5EBL	6	288	18	16	NM	DM84
Α	816	32	17	MD	FM19	AD8J	6	1,075	43	25	NC	EM85	KC5RGQ	6	9	3	3	NM	DM72
Α	799	40	17	MD	FM19	AC4G	6	696	29	24	TN	EM65	AD7KI	Q	900	36	25	OK	EM16
A	735	39	15	MD	FM19	W6UB	6	520	26	20	TN	EM75	WE5EE	Q	210	15	14	LA	EL49
Α	576	29	18	MD	FM19	K2SX	6	504	28	18	SC	FM03	WA5BUC	Q	182	14	13	TX	EL29
Α	325	13	13	PA	FN01	K8EAB	6	494	26	19	GA	EM74	WA5MWD	Q	1	1	1	TX	EM12
Α	276	23	12	MD	FM18	N4BP	6	408	24	17	FL	EL96	K5QE	M	180,155	585	263	TX	EM31
Α	250	21	10	PA	FM19	NC4M	6	357	21	17	GA	EM74							
A	171	14	9	DE	FM29	WV4V	6	315	21	15	FI	EL88	KG6IYN	Α	62,640	416	120	CA	DM12
			9								NC								
Α	117	10		PA	FN10	AI4WL	6	195	15	13		FM15	K6EU	Α	4,182	78	51	CA	CM97
Α	70	7	7	PA	FN10	KM4NYI	6	154	14	11	TN	EM85	WB6HYH	Α	3,293	74	37	CA	DM14
Α	9	3	3	MD	FM18	KK4AND	6	96	12	8	FL	EL87	W6ZAR	Α	2,046	65	31	CA	DM13
6	18,676	203	92	MD	FM19	K4YYL	6	54	9	6	SC	EM84	WA6ZTY	Α	1,638	61	21	CA	CM98
6	10,152	141	72	PA	FN20	WK4Y	6	49	7	7	VA	FM17	N4DLA	A	902	35	22	CA	CM87
6	2,856	68	42	PA	FN11	K4BSK	6	42	7	6	NC	EM95	K6VCR	Α	792	32	24	CA	DM12
6	210	15	14	PA	FN00	K4AFE	6	25	5	5	TN	EM55	NØKQ	Α	204	15	12	CA	CM88
6	207	23	9	MD	FM19	N4HWH	6	20	5	4	NC	FM13	N6QQ	6	3,285	73	45	CA	DM03
6	154	14	11	PA	FN00	KM4IAJ	6	14	7	2	VA	FM18	W6BVB	6	1,176	42	28	CA	DM13
6	52	13	4	MD	FM19	N8AID	6	4	2	2	VA	FM07	K6XV	6	1,007	53	19	CA	CM97
6	14	7	2	MD	FM19	N4SVC	Q	10,366	133	73	FL	EM80	K6NA	6	630	30	21	CA	DM13
-						114310	u	10,300	133	13				-					
6	6	3	2	MD	FM19							Op: N2CEI	K6KY	6	621	27	23	CA	DM04
M	85,760	387	160	PA	FN00	K3TW	Q	204	17	12	FL	EL88	N6ORB	6	496	31	16	CA	CM87
M	6,832	108	56	MD	FM18	KC8KSK	Q	6	2	2	SC	FM03	K6CSL	6	72	9	8	CA	CM97
M	5.198	93	46	MD	FM19	W4GRW	2	15,080	145	52	NC	EM96	W6IFN	6	54	9	6	CA	CM97
M	144	16	Q	MD	FM19	N4QWZ	2	1,518	33	23	TN	EM66	K6MCS	6	40	8	5	CA	CM98
IVI	144	10	7	IVID	1 101 1 7		M				VA	FM19		6	1	1	1	CA	
						K8GP	IVI	107,484	460	169	VA	FIVITY	KK6NWJ	-					DM12
	18,387												KD7WPJ	Н	60	7	5	CA	DM07
Α		184	81	VA	FM19														
A	15,648	184 158	96	FL	EL98	WB2FKO	Α	32,240	245	124	NM	DM65	KB9FKO	Н	24	7	3	CA	DM13
						WB2FKO W7QQ	A	<b>32,240</b> 17,298	<b>245</b> 163	<b>124</b> 93	NM NM	DM65 DM75				7 <b>47</b>	3 <b>14</b>	CA CA	CM88
A A	15,648 15,051	158 162	96 87	FL GA	EL98 EM74	W7QQ	Α	17,298	163	93	NM	DM75	KB9FKO K2GMY	H	24 <b>938</b>	47	14	CA	CM88
A A A	15,648 15,051 13,188	158 162 151	96 87 84	FL GA TN	EL98 EM74 EM75	W7QQ AI5I	A A	17,298 12,816	163 143	93 89	NM NM	DM75 DM65	KB9FKO K2GMY WB2TVB	H Q Q	24 <b>938</b> 28	<b>47</b> 7	14 4	CA CA	CM88 DM04
A A A	15,648 15,051 13,188 8,066	158 162 151 109	96 87 84 74	FL GA TN TN	EL98 EM74 EM75 EM56	W7QQ AI5I <b>WA8ZBT</b>	A A <b>A</b>	17,298 12,816 <b>11,200</b>	163 143 <b>139</b>	93 89 <b>80</b>	NM NM TX	DM75 DM65 EM12	KB9FKO K2GMY	H	24 <b>938</b>	47	14	CA	CM88
A A A A	15,648 15,051 13,188 8,066 7,744	158 162 151 109 109	96 87 84 74 64	FL GA TN TN AL	EL98 EM74 EM75 EM56 EM74	W7QQ AI5I <b>WA8ZBT</b> WA5LFD	A A A	17,298 12,816 <b>11,200</b> 5,355	163 143 <b>139</b> 89	93 89 <b>80</b> 51	NM NM TX TX	DM75 DM65 <b>EM12</b> EM12	KB9FKO K2GMY WB2TVB N6RPM	Н Q Q М	24 938 28 966	47 7 35	14 4 23	CA CA	CM88 DM04 DM04
A A A A	15,648 15,051 13,188 8,066 7,744 5,000	158 162 151 109 109 90	96 87 84 74 64 50	FL GA TN TN AL FL	EL98 EM74 EM75 EM56 EM74 EM90	W7QQ AI5I <b>WA8ZBT</b> WA5LFD N5EPA	A A A A	17,298 12,816 <b>11,200</b> 5,355 5,049	163 143 <b>139</b> 89 87	93 89 <b>80</b> 51 51	NM NM TX TX NM	DM75 DM65 <b>EM12</b> EM12 DM64	KB9FKO K2GMY WB2TVB N6RPM W7FI	H Q Q M	24 938 28 966 18,954	47 7 35 200	14 4 23 81	CA CA CA	CM88 DM04 DM04 CN87
A A A A	15,648 15,051 13,188 8,066 7,744	158 162 151 109 109	96 87 84 74 64	FL GA TN TN AL	EL98 EM74 EM75 EM56 EM74	W7QQ AI5I <b>WA8ZBT</b> WA5LFD	A A A	17,298 12,816 <b>11,200</b> 5,355	163 143 <b>139</b> 89	93 89 <b>80</b> 51	NM NM TX TX	DM75 DM65 <b>EM12</b> EM12	KB9FKO K2GMY WB2TVB N6RPM	Н Q Q М	24 938 28 966	47 7 35	14 4 23	CA CA	CM88 DM04 DM04
A A A A A	15,648 15,051 13,188 8,066 7,744 5,000 4,680	158 162 151 109 109 90 74	96 87 84 74 64 50 52	FL GA TN TN AL FL NC	EL98 EM74 EM75 EM56 EM74 EM90 FM16	W7QQ AI5I <b>WA8ZBT</b> WA5LFD N5EPA K5AM	A A A A A	17,298 12,816 <b>11,200</b> 5,355 5,049 4,717	163 143 <b>139</b> 89 87 87	93 89 <b>80</b> 51 51 53	NM NM TX TX NM NM	DM75 DM65 <b>EM12</b> EM12 DM64 DM62	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR	H Q Q M M	24 938 28 966 18,954 14,664	47 7 35 200 171	14 4 23 81 78	CA CA CA WA AZ	CM88 DM04 DM04 CN87 DM43
<b>A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320	158 162 151 109 109 90 74 96	96 87 84 74 64 50 52 45	FL GA TN TN AL FL NC FL	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87	W7QQ AI5I <b>WA8ZBT</b> WA5LFD N5EPA K5AM KB7IJ	A A A A A	17,298 12,816 <b>11,200</b> 5,355 5,049 4,717 3,450	163 143 <b>139</b> 89 87 87	93 89 <b>80</b> 51 51 53 50	NM NM TX TX NM NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS	H Q Q M A A	24 938 28 966 18,954 14,664 11,484	47 7 35 200 171 130	14 4 23 81 78 87	CA CA CA WA AZ UT	CM88 DM04 DM04 CN87 DM43 DN41
<b>A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984	158 162 151 109 109 90 74 96 83	96 87 84 74 64 50 52 45	FL GA TN TN AL FL NC FL VA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18	W7QQ AI5I WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY	A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010	163 143 <b>139</b> 89 87 87 61 62	93 89 80 51 51 53 50 43	NM NM TX TX NM NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW	H Q Q M A A	24 938 28 966 18,954 14,664 11,484 9,212	47 7 35 200 171 130 147	14 4 23 81 78 87 49	CA CA CA WA AZ UT WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87
A A A A A A A	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856	158 162 151 109 109 90 74 96 83 66	96 87 84 74 64 50 52 45 48	FL GA TN TN AL FL NC FL VA SC	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92	W7QQ AI5I WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F	A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622	163 143 <b>139</b> 89 87 87 61 62 69	93 89 80 51 51 53 50 43 38	NM TX TX NM NM TX NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T	H Q Q M A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016	47 7 35 200 171 130 147 132	14 4 23 81 78 87 49 48	CA CA CA WA AZ UT WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85
<b>A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944	158 162 151 109 109 90 74 96 83 66 52	96 87 84 74 64 50 52 45 48 42 36	FL GA TN TN AL FL NC FL VA SC SC	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93	W7QQ AI5I WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY	A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581	163 143 139 89 87 87 61 62 69 51	93 89 80 51 51 53 50 43 38 31	NM NM TX TX NM NM TX NM TX NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD	H Q Q M A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832	47 7 35 200 171 130 147 132 137	14 4 23 81 78 87 49 48 44	CA CA CA WA AZ UT WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87
A A A A A A A	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872	158 162 151 109 109 90 74 96 83 66 52 45	96 87 84 74 64 50 52 45 48 42 36 36	FL GA TN TN AL FL NC FL VA SC SC KY	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79	W7QQ AI5I WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462	163 143 139 89 87 87 61 62 69 51	93 89 80 51 51 53 50 43 38 31	NM NM TX TX NM NM TX NM TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO	H Q Q M A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380	47 7 35 200 171 130 147 132 137 115	14 4 23 81 78 87 49 48 44 44	CA CA CA WA AZ UT WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97
<b>A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944	158 162 151 109 109 90 74 96 83 66 52	96 87 84 74 64 50 52 45 48 42 36	FL GA TN TN AL FL NC FL VA SC SC	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93	W7QQ AI5I WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY	A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581	163 143 139 89 87 87 61 62 69 51	93 89 80 51 51 53 50 43 38 31	NM NM TX TX NM NM TX NM TX NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD	H Q Q M A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832	47 7 35 200 171 130 147 132 137	14 4 23 81 78 87 49 48 44	CA CA CA WA AZ UT WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87
<b>A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820	158 162 151 109 109 90 74 96 83 66 52 45	96 87 84 74 64 50 52 45 48 42 36 36 35	FL GA TN TN AL FL NC FL VA SC SC KY NC	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03	W7QQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290	163 143 139 89 87 61 62 69 51 40 42	93 89 80 51 51 53 50 43 38 31 34	NM NM TX TX NM NM TX NM TX TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21	KB9FKO KZGMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY	H Q Q M A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322	47 7 35 200 171 130 147 132 137 115 102	14 4 23 81 78 87 49 48 44 44 58	CA CA CA WA AZ UT WA WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750	158 162 151 109 109 90 74 96 83 66 52 45 51	96 87 84 74 64 50 52 45 48 42 36 36 35 35	FL GA TN TN AL FL NC FL VA SC SC KY NC VA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM79 FM03 EM86	W7QQ AISI WA8ZBT WA5LFD N5EPA K5AM K57IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140	163 143 139 89 87 61 62 69 51 40 42 37	93 89 80 51 51 53 50 43 38 31 34 30	NM NM TX TX NM NM TX NM TX TX TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322 4,964	47 7 35 200 171 130 147 132 137 115 102 104	14 4 23 81 78 87 49 48 44 44 58 34	CA CA CA WA AZ UT WA WA WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,870 1,590	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42	96 87 84 74 64 50 52 45 48 42 36 36 35 35	FL GA TN TN AL FL NC FL VA SC SC KY NC VA GA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM79 FM03 EM86 EM74	W7QQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627	163 143 139 89 87 61 62 69 51 40 42 37 33	93 89 80 51 51 53 50 43 38 31 34 30 30	NM NM TX NM NM TX NM TX TX TX TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52	KB9FKO K2GMY WB2TVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF N6ZE/7	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088	47 7 35 200 171 130 147 132 137 115 102 104 104	14 4 23 81 78 87 49 48 44 44 58 34 28	CA CA CA WA AZ UT WA WA WA WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN87 CN87 CN97 DN71 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46	96 87 84 74 64 50 52 45 48 42 36 36 35 35 30 30	FL GA TN TN AL FL VA SC SC KY NC VA GA FL	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EM74 EL97	W7QQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325	163 143 139 89 87 61 62 69 51 40 42 37 33 18	93 89 80 51 51 53 50 43 38 31 34 30 30 19	NM NM TX NM NM TX NM TX NM TX NM TX TX TX TX TX TX TX NM NM NM	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 DM55	KB9FKO KZGMY WBZTVB N6RPM  W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZ1W	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,382 4,964 4,088 3,993	47 7 35 200 171 130 147 132 137 115 102 104 104 102	14 4 23 81 78 87 49 48 44 44 58 34 28 33	CA CA CA WA AZ UT WA WA WA WA WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46 19	96 87 84 74 64 50 52 45 48 42 36 36 35 35 30 30	FL GA TN TN AL FL VA SC SC KY NC VA GA FL NC	EL98 EM74 EM75 EM56 EM66 EM74 EM90 FM18 EL87 FM18 EM92 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EL97	W7OQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7OY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208	163 143 139 89 87 61 62 69 51 40 42 37 33 18	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13	NM NM TX TX NM NM TX NM TX TX TX TX TX TX TX TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 DM55 EM00	KB9FKO K2GMY WB2TVB N6RPM  W7FI N7IR K7ULS KE7SW W28T N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZ1W W7TDZ	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 6,322 4,964 4,088 3,993 3,738	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86	14 4 23 81 78 87 49 48 44 44 58 34 28 33 42	CA CA CA WA AZ UT WA WA WA WA WA WA WA WA OR	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46	96 87 84 74 64 50 52 45 48 42 36 36 35 35 30 30	FL GA TN TN AL FL VA SC SC KY NC VA GA FL	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EM74 EL97	W7QQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325	163 143 139 89 87 61 62 69 51 40 42 37 33 18	93 89 80 51 51 53 50 43 38 31 34 30 30 19	NM NM TX NM NM TX NM TX NM TX NM TX TX TX TX TX TX TX NM NM NM	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 DM55	KB9FKO KZGMY WBZTVB N6RPM  W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZ1W	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,382 4,964 4,088 3,993	47 7 35 200 171 130 147 132 137 115 102 104 104 102	14 4 23 81 78 87 49 48 44 44 58 34 28 33	CA CA CA WA AZ UT WA WA WA WA WA WA WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46 19	96 87 84 74 64 50 52 45 48 42 36 36 35 35 30 30	FL GA TN TN AL FL VA SC SC KY NC VA GA FL NC	EL98 EM74 EM75 EM56 EM66 EM74 EM90 FM18 EL87 FM18 EM92 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EL97	W7OQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7OY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208	163 143 139 89 87 61 62 69 51 40 42 37 33 18	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13	NM NM TX TX NM NM TX NM TX TX TX TX TX TX TX TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 DM55 EM00	KB9FKO K2GMY WB2TVB N6RPM  W7FI N7IR K7ULS KE7SW W28T N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZ1W W7TDZ	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 6,322 4,964 4,088 3,993 3,738	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86	14 4 23 81 78 87 49 48 44 44 58 34 28 33 42	CA CA CA WA AZ UT WA WA WA WA WA WA WA WA OR	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 4,320 1,750 1,872 1,872 1,590 1,390 646 475	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46 19 22	96 87 84 74 64 50 52 45 48 42 36 36 35 30 30 19	FL GA TN TN AL FL VA SC SC KY NC VA GA FL NC FL VA	EL98 EM74 EM75 EM56 EM56 EM74 EM90 EL87 FM18 EM93 EM93 EM93 EM93 EM97 FM03 EM97 EM97 EM97 EM97 EM97	W7OQ AISI WA8ZBT WA5LFD N5EPA K5AM KB7IJ KC7QY AJ4F K5LY KGSUCA/R W5TV NH7RO/W5 W5GZ N5SJ KV5TX KD5GEN	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126	163 143 139 89 87 61 62 69 51 40 42 37 33 18 16	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13	NM NM TX NM NM TX NM TX TX TX TX TX TX TX TX TX TX TX	DM75 DM65 EM12 DM64 DM62 EM12 DM64 EL29 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM55 EM00 EM21 DM75	KB9FKO K2GMY WB2TVB N6RPM  W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF N6ZE/7 K21W W7TDZ KG7P N7BT	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68	14 4 23 81 78 87 49 48 44 44 58 34 28 33 42 33	CA CA CA WA AZ UT WA	CM88 DM04 DM04  CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 3,984 2,856 1,944 1,872 1,820 1,750 1,590 646 475 450	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 35 35 30 30 19 19	FL GA TN TN AL FL VA SC SC KY NC VA GA FL NC FL VA Op:	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM79 EM96 EM74 EL97 EL98 FM07 EL98 FM07 EL98 FM07	W7OO AISI WA8ZBT WA5LFD N5EPA K5AM K87IJ KC7OY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ N5SJ KV5TX KD5GEN AGSS K5TMT	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104	163 143 139 89 87 61 62 69 51 40 42 37 33 18 16 13	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 7 8	NM NM TX NM NM TX NM TX NM NM TX TX TX NM NM TX TX NM TX TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 EM00 EM21 DM75 EM00 EM21 DM75	KB9FKO K2GMY WB2TVB NGRPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD KD7UO WY7KY W7GLF N6ZE/7 K21W W7TDZ KG7P N7BT N7OOZ	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 4,964 4,088 3,993 3,738 2,970 2,706 2,160	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59	14 4 23 81 78 87 49 48 44 44 58 34 28 33 42 33 33 24	CA CA CA WA AZ UT WA	CM88 DM04 DM04  CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,750 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 36 35 30 19 19 15	FL GA TN TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op: VA	EL98 EM775 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM92 EM97 FM03 EM86 EM74 EL97 EM97 EM97 EM97 EM97 EM97 EM97 EM97 EM	W7OQ AISI WA8ZBT WA8LFD NSEPA K5AM KB7IJ KC7QY AJ4F K5LY KG5UCA/R W5TV NH7RO/W5 W5GZ NSSJ KV5TX KD5GEN AG5S K5TMT WD5K	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037	163 143 139 89 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3	NM NM TX NM NM TX TX NM NM TX TX TX TX TX TX TX NM NM TX TX TX NM NM TX TX TX NM NM TX TX NM TX TX	DM75 DM65 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EL18 DM52 DM55 EM00 EM21 DM75 EM01 EM211 DM75	K89FKO K2GMY WBZTVB N6RPM W7FI N7IR K7ULS KE7SW WZ8T N7EPD K07ULO WY7KY W7GLF N6ZE/7 K6ZF/7 N7BT N7BT N7OOZ K77HP	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59 63	14 4 23 81 78 87 49 48 44 45 58 33 42 28 33 42 33 32 42	CA CA CA WA AZ UT WA WA WA WA WA WA WA WA WA AZ	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 DN15 CN87 DN15 CN87 DN33
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,320 3,984 2,856 1,944 1,872 1,872 1,590 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 36 35 35 30 30 19 19 15	FL GA TN TN AL FL NC FL VA SC SC KY NC VA GA FL VA Op: VA FL	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EM95 EL97 EL98 FM07 W4MYA FM16	W7OO AISI WABZBT WASLED NSEPA KSAM KB7IJ AJ4F KSLY KGSUCA/R WSTV KGSUCA/R WSTV KU5TX KD5GEN AGSS KSTMT WD5K	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464	163 143 139 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 8 3 143	NM NM TX TX NM TX	DM75 DM65 EM12 EM12 EM12 DM64 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM55 EM00 EM21 DM75 EM10 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM W7FI N7IR K7ULS KE7SW W2SI N7EPD KD7UO W77KY W7GLF K2TW W7TDX KG7P N7BD N7BOZ K7P N7BOZ K7P N7BOZ K7HP N6LB	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680	47 7 35 200 171 130 147 132 137 115 102 104 102 86 68 78 59 63 53	14 4 23 81 78 87 49 48 44 44 58 34 28 33 42 33 32 29 24	CA CA CA WA AZ UT WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 DN15 CN87 CN88 CN87 DN15 CN88 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 36 35 30 30 19 19 15	FL GA TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op: VA FL GA	EL98 EM74 EM75 EM56 EM70 EM90 FM16 EL87 FM18 EM92 EM93 EM93 EM93 EM96 EM74 EL97 EM95 EL98 FM03 EM97 FM03 EM86 EM74 EL97 FM95 EL98 FM95 EL98 FM95 EM95 EM96 EM97 EM96 EM96 EM96 EM96 EM96 EM96 EM96 EM96	W700 AI5I WA8ZBT WA5LFD MSEPA KSAM K87IJ K670Y AJ4F KSLY K65UCA/R W5TV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AGSS KSTMT MD5K NSJM NSJM NSJM NSJM NSJM NSJM NSJM NSJM	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,771 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464 32,766	163 143 139 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3 3 99 95 12 95 13 95 14 95 15 16 16 16 16 16 16 16 16 16 16 16 16 16	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3 3 163 124 129	NM NM TX TX NM NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EM12 DM52 DM52 DM52 EM52 DM55 EM10 EM10 EM11 EM10 EM12 EM12 EM12 EM12	KBPFKO K2GMY WBZTVB NGRPM W7FI N7IR KTULS KETSW WZST N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZTW W7TDZ KGTPP N7BT N70OZ K7HP N6LB K7SS	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680 1,610	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59 63 53 70	14 4 23 81 78 87 49 48 44 44 58 33 42 28 33 42 29 24 29 24	CA CA CA WA AZ UT WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,320 3,984 2,856 1,944 1,872 1,872 1,870 1,750 1,590 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 35 35 30 19 19 15	FL GA TN AL FL NC FL VA SC SC KY NC VA GA FL VA FL VA GA FL GA GA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM86 EM74 EL97 EL97 EM95 EL98 EL98 EL98 EL98 EL98 EL98 EL98 EL98	W7OO AISI WASLED WASLED NSEPA KSAM KB7IJ AJ4F KSLY KGSUCAVR WSTV KGSUCAVR WSTV KDSGEN AGSS KSTMT WDSK NSJR WASDM WSPR	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464	163 143 139 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3	93 89 80 51 51 53 50 43 38 31 34 30 19 13 13 7 7 8 3 163 129 105	NM NM TX TX NM TX NM TX NM TX	DM75 DM65 EM12 EM12 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM55 EM00 EM21 DM75 EM10 EM12 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM W7FI N7IR K7ULS K27SW W2ST N7EPD K07U0 W77KY W7TINZ KG7P N7IDZ KG7P N7OOZ K7HP N6LB K7SS KX7L	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 6,380 6,322 4,964 4,088 3,973 3,738 2,970 2,766 2,160 1,827 1,680 1,610	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59 63 53 70 52	14 4 23 81 78 87 49 48 44 44 58 33 42 28 33 42 29 24 29 24 23 23	CA CA CA WA AZ UT WA	CM88 DM04 DM04 CN87 DM43 DM41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 45 48 42 36 36 35 30 30 19 19 15	FL GA TN AL FL NC FL VA SC SC KY NC VA GA FL NC FL VA Op: VA FL GA	EL98 EM74 EM75 EM56 EM70 EM90 FM16 EL87 FM18 EM92 EM93 EM93 EM93 EM96 EM74 EL97 EM95 EL98 FM03 EM97 FM03 EM86 EM74 EL97 FM95 EL98 FM95 EL98 FM95 EM95 EM96 EM97 EM96 EM96 EM96 EM96 EM96 EM96 EM96 EM96	W700 AI5I WA8ZBT WA5LFD MSEPA KSAM K87IJ K670Y AJ4F KSLY K65UCA/R W5TV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AGSS KSTMT MD5K NSJM NSJM NSJM NSJM NSJM NSJM NSJM NSJM	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,771 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464 32,766	163 143 139 87 87 61 62 69 51 40 42 37 33 18 16 13 11 3 3 99 95 12 95 13 95 14 95 15 16 16 16 16 16 16 16 16 16 16 16 16 16	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 3 3 163 124 129	NM NM TX TX NM NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EM12 DM52 DM52 DM52 EM52 DM55 EM10 EM10 EM11 EM10 EM12 EM12 EM12 EM12	KBPFKO K2GMY WBZTVB NGRPM W7FI N7IR KTULS KETSW WZST N7EPD KD7UO WY7KY W7GLF N6ZE/7 KZTW W7TDZ KGTPP N7BT N70OZ K7HP N6LB K7SS	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680 1,610	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59 63 53 70	14 4 23 81 78 87 49 48 44 44 58 33 42 28 33 42 29 24 29 24	CA CA CA WA AZ UT WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,380 646 475 450	158 162 151 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 52 36 36 35 30 30 19 19 15	FL GA TN AL FL VA SC SC SC VA GA FL VA GA FL GA FL GA FL	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM79 FM03 EM74 EL97 EM95 EL98 FM07 W4MYA FM16 EL99 EM95 EL98 FM07 EM95 EL98 FM07 EM95 EL98 FM07 EM95 EL98 EM95 EM95 EM95 EM95 EM95 EM95 EM95 EM95	W700 AISI WASZBT WASLED MSEPA KSAM KB7IJ KC70Y AJ4F KSLY KC5UCA/R W5TV NH7ROW5 W50Z NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDM WSPR WSTN	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 3225 208 126 104 9 65,037 35,464 32,766 28,350	163 143 139 89 87 61 62 69 51 40 42 37 33 31 18 16 13 33 399 286 254 47 106	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 8 3 163 124 129 105 93	NM NM TX TX NM TX NM TX	DM75 DM65 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM52 DM55 EM00 EM21 DM75 EM10 EM12 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM W7FI N7IR KTULS KETSW WZ8T N7EPD KD7UO W77KY W7GLF K2TW W7TDZ K37P N7BT N70OZ K7HP N6LB K7SS KX7L	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,820 1,610 1,425	47 7 35 200 171 130 147 115 102 104 102 86 68 78 78 63 53 70 52 57	14 4 23 81 78 87 49 48 44 44 58 33 42 33 32 42 29 24 23 23 25	CA CA CA WA AZ UT WA AZ WA WA OR	CM88 DM04 DM04 CN87 DM41 CN87 CN87 CN87 CN97 DN71 CN87 CN87 CN87 CN87 DN15 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,870 1,750 1,380 646 475 450 338 338 336 304 154 120	158 162 151 109 109 90 74 96 83 66 52 45 51 40 42 46 19 22 30	96 87 84 74 64 50 25 45 48 42 45 36 36 35 35 30 30 19 15 13 16 16 11 10 55	FL GA TN TN AL FL VA SC KY NC VA GA FL VA Op: VA GA FL VA GA FL VA VA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM79 FM03 EM74 EL97 EL97 EL97 EL97 EL98 FM07 W4MYA FM16 EL99 EM74 EM74 EM74 EM74 EM74 EM74 EM74 EM74	W700 AI5I WASZBT WASLFD NSEPA KSAM KB7IJ AJ4F KSLY KG5UCA/R W5TV NH7ROW5 W56Z NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDM W5PR WSTN NZIC	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 9 65,037 35,464 28,350 15,438 8,856	163 143 139 89 87 61 62 69 51 40 42 37 33 18 16 13 3399 286 254 270 6166 123	93 89 80 51 51 53 50 43 38 31 34 43 30 30 19 13 13 7 8 8 3 124 129 105 105 105 105 105 105 105 105 105 105	NM NM TX TX NM NM TX	DM/5 DM/65 EM12 EM12 DM/64 DM/62 EM12 DM/64 EL29 EM13 EM01 EM21 EM21 DM55 EM00 EM21 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM WFI NTIR KTULS KE7SW WZSI NTEPD KDTUO WYTKY WTTDZ KGTP N7BT N7BT N7BT N7BOZ K7HP N6LB K7SX KXTL KAXU KETMSU	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 7,832 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680 1,426 1,426 1,426 1,426	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 63 53 70 52 57 43	14 4 23 81 78 87 49 48 44 44 58 33 42 33 32 42 23 24 29 24 23 23 25 20	CA CA CA WA AZ UT WA OR OR	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN87 CN97 DN71 CN87 CN87 CN87 CN87 DN15 CN87 CN88 CN87 DM33 CN88 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 2,856 1,942 1,820 1,750 1,380 646 475 450 338 336 304 154 120 110 64	158 162 151 109 90 74 96 83 66 52 45 51 40 22 30 18 21 17 13 12 14	96 87 74 64 50 52 45 48 42 36 36 35 35 30 30 19 19 15	FL GA TN TN AL FL VA SC KY NC VA GA FL NC FL VA Op. VA FL VA Op. VA VA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM93 EM93 EM93 EM79 FM03 EM95 EL97 EM95 EL97 WMYA FM16 EL99 EM95 EL99 EM95 EL98 FM07 WMYA FM16 EL99 EM95 EL99 EM96 EM96 EL99 EM96 EM96 EM96 EM96 EM96 EM96 EM96 EM	W700 AISI WASZBT WASLED MSEPA KSAM KB7IJ KC70Y AJ4F KSLY KC5UCA/R W5TV NH7ROW5 W50Z NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJR WASDM WSPR WSTN	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 3225 208 126 104 9 65,037 35,464 32,766 28,350	163 143 139 89 87 61 62 69 51 40 42 37 33 31 18 16 13 33 399 286 254 47 106	93 89 80 51 51 53 50 43 38 31 34 30 30 19 13 13 7 8 8 3 163 124 129 105 93	NM NM TX TX NM TX NM TX	DM75 DM65 EM12 EM12 EM12 DM64 DM62 EM12 DM64 EL29 EM13 EM01 EM21 EL18 DM55 EM00 EM21 DM75 EM10 EM12 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM W7FI N7IR K7ULS KE7SW W28I N7EPD K07U0 WY7KY W7GLF K2TW W7TDZ KG7P N7BT N7DOZ K7HP N6LB K7SS KX7L K4XU KE7MSU K07TS	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 11,484 9,212 8,016 7,832 4,964 4,088 3,993 3,738 2,706 2,166 1,680 1,610 1,426 1,425 1,388	47 7 35 200 171 130 147 132 137 115 102 104 104 102 86 68 78 59 63 53 70 52 57 43 44 46	14 4 23 81 78 87 49 48 44 44 58 33 32 42 29 24 23 25 20 16	CA CA CA WA AZ UT WA WA WA WA WA WA WA OR WA AZ WA AZ WA OR WA WA WA OR WA	CM88 DM04 DM04 CN87 DM43 DN41 CN87 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475 450 338 336 304 154 120 110 64 366	158 162 151 109 109 90 74 96 83 66 65 52 45 51 40 42 46 42 30 17 17 13 12 14 10 10 10 10 10 10 10 10 10 10 10 10 10	96 87 84 74 64 50 52 45 48 36 36 35 30 30 30 19 19 15	FL GA TN TN AL FL VA SC SC KY NC GA FL VA PL VA FL GA FL VA NC	EL98 EM74 EM75 EM86 EM774 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM74 EL97 EM93 EM74 EL97 EM98 FM07 W4MYA FM16 EL99 EM74 EL97 EM98 FM07 EM98 FM07 EM98 FM07 EM98 FM07 EM98 FM16 EL97 EM98 FM07 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 EM98 EM98 EM98 EM98 EM98 EM98 EM98	W7OO AISI WASZBT WASLED MSEPA KSAM KB7IJ KC7OY AJ4F KSLY KGSUCA/R W5TV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJM W5FN W5GZ NSJM W5TN RD5GEN AG5S KSTMT AG5S AG5S AG5S AG5S AG5A AG5A AG5A AG5A	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 64,037 35,464 32,766 28,350 15,438 8,856 5,700	163 143 139 87 87 61 62 69 51 140 42 37 33 18 16 13 3399 286 254 00 166 123 100	93 89 80 51 51 53 38 31 34 30 30 30 19 8 3 113 7 8 3 124 129 5 7 2 5 7	NM NM TX NM NM TX	DM/55 DM/65 EM12 EM12 EM12 DM/64 DM/62 EM12 DM/64 EL29 EM13 EM01 EM21 DM/55 EM00 EM21 DM/75 EM10 EM12 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KB9FKO K2GMY WB2TVB NGRPM W7FI N7IR KTULS KETSW WZ8T N7EPD KDTUD KDTUD KGTPD KOTUD KGTPD KOTUD KGTP KATUB KGTP KATUB KGTP KATUB KGTP KATUB KGTP KATUB	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680 1,610 1,425 1,380 1,168 7,148	47 7 35 200 171 130 147 115 102 104 104 102 86 68 78 59 63 53 70 52 57 43 44 43 33	14 4 23 81 78 87 49 48 44 44 44 58 33 34 42 28 33 32 42 29 24 23 25 20 16 17	CA CA CA WA AZ UT WA WA WA WA WA WA WA OR WA OR OR OR WA OR OR OR	CM88 DM04 DM04 CN87 DM43 DM41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,750 1,590 1,590 338 336 475 450	158 162 151 109 90 90 83 66 65 52 45 51 40 42 46 19 22 30	96 87 74 64 50 52 45 48 42 36 35 35 30 19 19 15 13 16 16 11 10 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	FL GA TN TN AL NC FL VA SC SC VA GA FL NC FL VA Op: VA GA CA	EL98 EM74 EM75 EM56 EM74 EM90 FM16 EL87 FM18 EM92 EM93 EM79 FM03 EM74 EL97 EM95 EL98 FM07 W4MYA FM16 EL99 EM95 EL98 FM07 W4MYA FM16 EL99 EM95 EL98 FM07 W4MYA FM16 EL99 EM95 EL98 FM07 W4MYA FM18 EL99 EM95 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 FM07 EL98 EL98 FM07 EL98 EL98 EL98 EL98 EL98 EL98 EL98 EL98	W7OO AISI WASZBT WASLED NSEPA KSAM KB7IJ AJ4F KSLY KGSUCAVR WSTV KGSUCAVR WSTV KDSGEN AGSS KSTMT WDSK NSJR WASDM WSPR WSTN NZIC AASKA KC9FFV	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 104 965,037 35,464 32,766 28,350 15,438 8,856 5,700	163 143 139 87 87 61 62 69 51 40 42 37 33 11 13 399 286 254 270 166 123 100	93 899 80 51 51 53 36 33 36 33 72 57 52	NM NM TX X NM NM TX	DM75 DM65 EM12 EM12 EM12 DM64 DM62 EM13 EM01 EL18 DM52 EM00 EM13 EM01 EL18 DM55 EM00 EM21 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KBPFKO K2GMY WB2TVB NGRPM W7FI N7IR K7ULS K77SW W2ST N7EPD K07U0 WY7KY W7GLF K2TW W7TDZ KG7P N70OZ K7HP N6LB K7SS KX7L KXYL KXYL KXYL KXYL KXYL KXYL KXYL KXY	H Q Q M A A A A A A A A A A A A A A A A A	24 938 966 18,954 14,664 11,484 9,212 8,016 6,380 6,380 6,380 6,380 2,970 2,706 2,160 1,680 1,610 1,426 1,425 1,380 1,168 714 448	47 7 35 200 171 130 137 115 102 104 104 102 86 68 78 59 96 33 53 70 52 57 43 46 33 32 68	14 4 23 81 78 87 49 48 44 44 58 33 42 28 33 33 24 29 24 23 23 25 20 16	CA CA CA CA WA AZ UT WA WA WA WA WA WA WA WA WA CR WA WA WA COR OR AZ	CM88 DM04 DM07 CN87 DM41 CN87 CN85 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87
<b>A A A A A A A A A A</b>	15,648 15,051 13,188 8,066 7,744 5,000 4,680 4,320 3,984 2,856 1,944 1,872 1,820 1,750 1,590 1,380 646 475 450 338 336 304 154 120 110 64 366	158 162 151 109 109 90 74 96 83 66 65 52 45 51 40 42 46 42 30 17 17 13 12 14 10 10 10 10 10 10 10 10 10 10 10 10 10	96 87 84 74 64 50 52 45 48 36 36 35 30 30 30 19 19 15	FL GA TN TN AL FL VA SC SC KY NC GA FL VA PL VA FL GA FL VA NC	EL98 EM74 EM75 EM86 EM774 EM90 FM16 EL87 FM18 EM92 EM93 EM79 EM93 EM74 EL97 EM93 EM74 EL97 EM98 FM07 W4MYA FM16 EL99 EM74 EL97 EM98 FM07 EM98 FM07 EM98 FM07 EM98 FM07 EM98 FM16 EL97 EM98 FM07 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 FM16 EL97 EM98 EM98 EM98 EM98 EM98 EM98 EM98 EM98	W7OO AISI WASZBT WASLED MSEPA KSAM KB7IJ KC7OY AJ4F KSLY KGSUCA/R W5TV NH7ROW5 W5GZ NSSJ KV5TX KD5GEN AG5S KSTMT WD5K NSJM W5FN W5GZ NSJM W5TN RD5GEN AG5S KSTMT AG5S AG5S AG5S AG5S AG5A AG5A AG5A AG5A	A A A A A A A A A A A A A A A A A A A	17,298 12,816 11,200 5,355 5,049 4,717 3,450 3,010 2,622 1,581 1,462 1,290 1,140 627 325 208 126 64,037 35,464 32,766 28,350 15,438 8,856 5,700	163 143 139 87 87 61 62 69 51 140 42 37 33 18 16 13 3399 286 254 00 166 123 100	93 89 80 51 51 53 38 31 34 30 30 30 19 8 3 113 7 8 3 124 129 5 7 2 5 7	NM NM TX NM NM TX	DM/55 DM/65 EM12 EM12 EM12 DM/64 DM/62 EM12 DM/64 EL29 EM13 EM01 EM21 DM/55 EM00 EM21 DM/75 EM10 EM12 EM12 EM12 EM12 EM12 EM12 EM12 EM12	KB9FKO K2GMY WB2TVB NGRPM W7FI N7IR KTULS KETSW WZ8T N7EPD KDTUD KDTUD KGTPD KOTUD KGTPD KOTUD KGTP KATUB KGTP KATUB KGTP KATUB KGTP KATUB KGTP KATUB	H Q Q M A A A A A A A A A A A A A A A A A	24 938 28 966 18,954 14,664 11,484 9,212 8,016 7,832 6,380 6,322 4,964 4,088 3,993 3,738 2,970 2,706 2,160 1,827 1,680 1,610 1,425 1,380 1,168 7,148	47 7 35 200 171 130 147 115 102 104 104 102 86 68 78 59 63 53 70 52 57 43 44 43 33	14 4 23 81 78 87 49 48 44 44 44 58 33 34 42 28 33 32 42 29 24 23 25 20 16 17	CA CA CA WA AZ UT WA WA WA WA WA WA WA OR WA OR OR OR WA OR OR OR	CM88 DM04 DM04 CN87 DM43 DM41 CN87 CN85 CN87 CN97 DN71 CN87 CN87 CN87 CN87 CN87 CN87 CN87 CN87

K7XC	Α	77	11	7	NV	DM09	KØBJ	6	17,910	199	90	KS	DM99
K7CW	6	34,410	310	111	WA	CN87	WØBL	6	8,700	116	75	CO	DN60
NR7T KY7M	6	29,970 14,976	270 192	111 78	UT AZ	DM38 DM33	WB9KPT K2DSW	6 <b>6</b>	8,060 3,871	124 <b>79</b>	65 <b>49</b>	CO	DM79 EN31
N7NT	6	10,117	151	67	AZ	DM43	WØJW	6	3,825	7 <b>9</b> 75	51	IA	EN31
N7CW	6	6,000	100	60	AZ	DM34	KØRPT	6	2,088	58	36	NE	EN10
AA7V K1NV	6 <b>6</b>	4,418 <b>2,840</b>	94 <b>71</b>	47 <b>40</b>	AZ NV	DM43 DM26	KØAV WØHBH	6	2,072 1,782	56 54	37 33	CO MO	DM78 EM48
N1RWY	6	1,976	52	38	AZ	DM43	WØRT	6	1,472	46	32	KS	EM27
WA7NWL	6	1,104	46	24	AZ	DM43	KØGOB	6	925	37	25	MO	EM48
K3WYC K7JAN	6 <b>6</b>	966 <b>925</b>	42 <b>37</b>	23 <b>25</b>	AZ ID	DM33 DN13	ADØH WNØL	6	720 567	30 27	24 21	IA NE	EN32 EN11
K9DR	6	925	37	25	AZ	DN62	W6GMT	6	480	24	20	MN	EN37
KD7DCR	6	836	44	19	MT	DN35	NØDOW	6	315	21	15	MN	EN26
AA7WB K7HKR	6	713 459	31 27	23 17	NV AZ	DM26 DM34	KØSRL KDØCVZ	6	140 56	14 8	10 7	IA MN	EN41 EN16
KF7U	6	444	37	12	AZ	DM43	NØJK	Н	144	12	12	KS	EM28
KJ7V	6	340	20	17 9	WA	DN07	W8KSC	Н	36	6	6	IA	EN42
WC7Q N6KL	6	225 195	25 15	13	WA WY	CN87 DN72	KEØTT NØAC	Q	238 42	17 7	14 6	MN	EN34 DN70
W7AMI	6	176	16	11	ID	DN13	WBØIWG	Q	6	3	2	ND	EN06
AA4Q	6	171 170	19 17	9	AZ	DM43	KØNR	М	16,999	184	89	CO	DM79
WØPAN AF7MD	6	1170	13	10 9	AZ OR	DM43 CN85			F	Rover			
K8IA	6	112	16	7	AZ	DM43	WW7D/R		43,710	32		93	9
K7IP W7ZR	6	99 50	11 10	9 5	WA AZ	CN76 DM24	N2SLN/R KK6MC/R		23,712 22,425	15 16		104 115	3 6
KF6HI	6	48	8	6	AZ	DM33	W3DHJ/R		20,585	16		115	4
W7GF	6	9	3	3	OR	CN84	AE5P/R		14,760	16	5	60	8
K1AUS AI9Q	6	1 1	1	1	MT WA	DN55 CN85	WA5GVQ/R WD5RAH/R		11,960 11,448	15 14		52 54	8 8
WA7JTM	Н	1,848	57	24	AZ	DM33	W1RGA/R		11,245	11		65	6
KG7HQ	Н	410	30	10	WA	CN88	KT5TE/R		10,712	13		52	7
WC7S KE7UQL	0	704 81	32 9	22	WY NV	DN71 DM09	K9JK/R N9GH/R		9,362 8,296	10	19 18	62 68	4 4
NN7AZ	M	76,024	371	172	AZ	DM32	N6GP/R		8,253	11	8	63	3
NOD IC			14'	70			N6JET/R		7,228	10		52	5
N8BJQ KB8U	A	12,168 7,150	146 94	78 55	OH MI	EN80 EN71	WB2SIH/R ABØYM/R		3,502 3,196		3	34 47	2 6
W8KN0	Α	1,080	34	24	OH	EN91	AC7MD/R		2,156	4	8	28	5
N8WNA	A	828	29	23	MI	EN82	K9PW/R		893		1	19	2
WB8AHT K9NW	A	512 220	17 20	16 11	MI OH	EN72 EM79	N2DCH/R K7ATN/R		96 70		8 7	8 5	4 2
KG8FE	Α	220	19	11	OH	EM79	K2JB/R		8		2	2	2
WB8WUA N8II	A 6	135	9 <b>93</b>	9 <b>49</b>	OH WV	EN91 FM19			C	ANADA			
KB8UUZ	6	4,557 3,168	72	49	OH	EN91	VE3DS	Α	8,384	107	64	ON	FN03
N8EA	6	2,028	52	39	MI	EN82	VE7DAY	Α	3,325	90	35	BC	CO70
NS80 W8TN	6	1,410 780	47 30	30 26	OH WV	EM89 EM98	VA7DX VE3RX	A	2,340 1,820	78 49	30 35	BC ON	CN89 EN96
N8TFD	6	768	32	24	MI	EN86	VA3TIC	A	945	31	27	ON	FN14
W1NN	6	638	29	22	OH	EN91	VE3SST	Α	736	30	16	ON	FN03
KD8MQ W8ASA	6	384 336	24 24	16 14	OH OH	EN90 EM79	VE3JVG VE9CB	A <b>A</b>	450 <b>375</b>	19 <b>18</b>	18 <b>15</b>	ON NB	EN93 FN65
N8PPF	6	330	22	15	OH	EN80	VE3IQZ	A	312	15	12	ON	FN04
AA8TA	6	294	21	14	OH	EN80	VA2NU	Α	209	15	11	QC	FN26
WB8WKQ N8XI	6	182 165	14 15	13 11	MI MI	EN82 EN82	VE3EJ VE2NCG	A	187 12	12 3	11 3	ON QC	FN03 FN35
	6	63	9	7	MI	EN72							FN65
K8TS	O	0.5	7		IVII		CG9EX	Α	6	2	2	NB	LINOS
N8QE	6	1	1	1	OH	EN91	VE3MMQ	6	13,320	148	90	ON	FN14
N8QE AB8FJ	6 Q	1 <b>70</b>	1 <b>10</b>	1 <b>7</b>	0H <b>0H</b>	EN91 EM79	VE3MMQ VE4EAR	6 6	13,320 6,174	148 98	90 63	ON MB	FN14 EN19
N8QE	6	70 53,332	1	1	OH	EN91	VE3MMQ VE4EAR VE3XB VE3VN	6	13,320	148	90	ON MB ON ON	FN14
N8QE AB8FJ	6 Q	70 53,332	1 <b>10</b>	1 <b>7</b>	OH OH OH	EN91 EM79 EN80	VE3MMQ VE4EAR VE3XB VE3VN VE5UF	6 6 6 6	13,320 6,174 3,139 2,356 1,748	148 98 73 62 46	90 63 43 38 38	ON MB ON ON SK	FN14 EN19 FN03 FN24 D061
N8QE AB8FJ N8ZM	6 Q M	70 53,332 144,534	1 10 319	7 134	OH OH OH	EN91 EM79 EN80	VE3MMQ VE4EAR VE3XB VE3VN	6 6 6	13,320 6,174 3,139 2,356	148 98 73 62	90 63 43 38	ON MB ON ON	FN14 EN19 FN03 FN24
N8QE AB8FJ N8ZM K2DRH W9EWZ NØAKC	6 Q M A A	1 70 53,332 144,534 27,639 13,122	1 10 319 551 196 160	1 7 134 221 111 81	OH OH OH IL O WI	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3QWW	6 6 6 6 6 6	13,320 6,174 3,139 2,356 1,748 713 414 70	148 98 73 62 46 31 23 10	90 63 43 38 38 23 18 7	ON MB ON ON SK ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04
N8QE AB8FJ N8ZM K2DRH W9EWZ NØAKC NR9Q	A A A A	1 70 53,332 144,534 27,639 13,122 4,914	1 10 319 551 196 160 82	1 7 134 221 111 81 54	OH OH OH IL O WI WI	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44 EN40	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT	6 6 6 6 6 6 6	13,320 6,174 3,139 2,356 1,748 713 414 70 16	148 98 73 62 46 31 23 10 4	90 63 43 38 38 23 18 7 4	ON MB ON ON SK ON ON ON	FN14 EN19 FN03 FN24 DO61 FN04 FN25 FN04 FN04
N8QE AB8FJ N8ZM K2DRH W9EWZ NØAKC	6 Q M A A	1 70 53,332 144,534 27,639 13,122	1 10 319 551 196 160	1 7 134 221 111 81	OH OH OH IL O WI	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3QWW	6 6 6 6 6 6	13,320 6,174 3,139 2,356 1,748 713 414 70	148 98 73 62 46 31 23 10	90 63 43 38 38 23 18 7	ON MB ON ON SK ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04
N8QE AB8FJ N8ZM K2DRH W9EWZ NØAKC NR9Q WB9TFH W9OO WS9V	6 Q M A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650	1 10 319 551 196 160 82 71 56 50	1 7 134 221 111 81 54 45 30 33	OH OH OH IL O WI WI IL WI IL	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44 EN40 EN53 EN61 EM59	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ	6 6 6 6 6 6 6 6 2 Q	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 33	148 98 73 62 46 31 23 10 4 1 8 3	90 63 43 38 38 23 18 7 4 1 3 3	ON MB ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 DO61 FN04 FN25 FN04 FN04 DO00 FN36 FN25
N8QE AB8FJ N8ZM K2DRH W9EWZ NØAKC NR9Q WB9TFH W9OO WS9V N2BJ	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176	1 10 319 551 196 160 82 71 56 50 41	1 7 134 221 111 81 54 45 30 33 24 23	OH OH OH IL O WI IL WI IL IL IL	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44 EN40 EN53 EN61 EM59 EN61	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3OWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA	6 6 6 6 6 6 6 6 6 M	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 33 9	148 98 73 62 46 31 23 10 4 1 8 3 133	90 63 43 38 38 23 18 7 4 1 3 3 75	ON MB ON ON SK ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 DO61 FN04 FN25 FN04 DO00 FN36 FN25 FN05
N80E AB8FJ N8ZM K2DRH W9EWZ NØAKC NR90 W89TFH W900 WS9V N2BJ W9IIX AC9S	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660	1 10 319 551 196 160 82 71 56 50 41 34 30	1 7 134 221 111 81 54 45 30 33 24 23 22	OH OH OH OH OH IL OH OH OH IL OH OH OH IL OH	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN61	VE3MMQ VE4EAR VE3XB VE3XN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA2LGQ	6 6 6 6 6 6 6 6 6 M M	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 133 9 12,750 11,346 1,394	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40	90 63 43 38 38 23 18 7 4 1 3 3 75 61	ON MB ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN04 FN04 D000 FN36 FN25 FN05 FN05 FN04 FN15
N80E AB8FJ N8ZM K2DRH W9EWZ NØAKC NR9Q WB9TFH W90O WS9V N2BJ W9IIX AC9S WV9E	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540	1 10 319 551 196 160 82 71 56 50 41 34 30 23	1 7 134 221 111 81 54 45 30 33 24 23 22 20 0	OH OH OH IL O WI IL IL IL IL	EN91 EM79 EN80 EN41 p: ACØRA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN61 EN61 EN61 EN61	VE3MMQ VE4EAR VE3XB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R	6 6 6 6 6 6 6 6 6 8 M M R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 33 9 12,750 11,346 1,394 11,218	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79	ON MB ON ON SK ON ON ON BC OC ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN04 FN04 D000 FN36 FN25 FN05 FN05 FN05 FN04 FN15 7
N8OE ABBFJ N8ZM K2DRH W9EWZ NØAKC NR9O WB9TFH W9OO WS9V N2BJ W9IIX AC9S WV9E WA9JML WB9WOZ	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN63 EN61 EN61 EN63 EN61	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN04 FN04 D000 FN36 FN25 FN05 FN05 FN04 FN15
NBOE ABBFJ NBZM KZDRH W9EWZ NOAKC NR9Q WB9TFH W9OO WS9V NZBJ W9IIX AC9S W99E WA9JML WB9WOZ NGGR	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN63 EN61 EN61 EN63 EN61	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN05 FN04 D000 FN36 FN25 FN05 FN04 FN15 7
NBOE ABBFJ NBZM KZDRH W9EWZ NOAKC NR9Q WB9TFH W9OO WS9V NZBJ W9IIX AC9S W99E WA9JML WB9WOZ NGGR	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN63 EN61 EN61 EN63 EN61	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN04 FN04 D000 FN36 FN25 FN05 FN04 FN15 7 2
NSOE ABBFJ NSZM K2DRH W9EWZ NØAKC NEPO WB9TTH W9OO NSSV N2BJ W9IIX AC9S W9E W99WJ NG9R KC9ELU K09A	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN63 EN61 EN61 EN63 EN61	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN04 FN04 D000 FN36 FN25 FN05 FN05 FN05 FN05 FN05 FN04 FN15 FN04 FN15 FN04 FN15 FN04 FN15 FN04 FN15 FN04 FN15 FN04 FN15 FN04 FN15 FN05 FN16 FN16 FN16 FN16 FN16 FN16 FN16 FN16
NBOE ABBFJ MSZM  K2DRH  W9EWZ NOAKC NE90 W89TH W9OO W59V N2BJ W9IIX AC9S WV9E WA9JML WBWOZ NG9R KC9ELU K09A W9OSI WI9WI	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN63 EN61 EN61 EN63 EN61	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04 FN06 FN36 FN05 FN05 FN04 FN15 7 2 DL92 EL95 DL44 EL06
NSOE ABBFJ NSZM K2DRH W9EWZ NØAKC NEPO WB9TTH W9OO NSSV N2BJ W9IIX AC9S W9E W99WJ NG9R KC9ELU K09A	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN62 EN63 EN61 EN61 EN63 EN61 EN63 EN61 EN63 EN63 EN64	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04 D000 FN36 FN25 FN05 FN05 FN05 FN05 FN05 FN05 FN05 FN0
NBOE ABBFJ MEZM  KZDRH  W9EWZ NØAKC NR9Q W89TFH W900 WS9V N2BJ W9IIX AC9S W9E WA9JML WB9WOZ NG9R K09A W90S W99W K9IMM NIRU	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN62 EN63 EN61 EN61 EN63 EN61 EN63 EN61 EN63 EN63 EN64	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04 D000 FN36 FN25 FN05 FN05 FN05 FN15 7 2 DL92 EL95 DL48 EL06 DL68 DM12 EL06 DL68
NBOE ABBFJ MEZM  KZDRH  W9EWZ NØAKC NR9Q W89TFH W900 WS9V N2BJ W9IIX AC9S W9E WA9JML WB9WOZ NG9R K09A W90S W99W K9IMM NIRU	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN62 EN63 EN61 EN61 EN63 EN61 EN63 EN61 EN63 EN63 EN64	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN25 FN04 FN04 FN25 FN04 FN05 FN05 FN04 FN15 7 2 DL92 EL95 DL44 EL06 DL68 DM12
NBOE ABBFJ MSZM  K2DRH  W9EWZ NØAKC NR9Q W89TH W9OO WS9V N2BJ W9IIX AC9S W9E WA9JML K09A W9OSI W9OWI K9IMM NIRU	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 1,176 805 660 540 416	1 10 319 551 196 160 82 71 56 50 41 34 30 23 19	1 7 134 221 111 81 54 45 30 33 24 23 22 20 16	OH OH OH IL O WI IL IL IL IL IL IL IL	EN91 EM79 EN80 EN41 p: ACORA EN52 EN44 EN40 EN53 EN61 EM59 EN61 EN61 EN61 EN61 EN62 EN63 EN61 EN61 EN63 EN61 EN63 EN61 EN63 EN63 EN64	VE3MMQ VE4EAR VE3VB VE3VN VE5UF VE3RSA VA3SY VA3QWW VE3UTT VA7ST VE2GT VA3PCJ VE3SMA VA3NW VA2LGQ VE3JAR/R VA2NO/R	6 6 6 6 6 6 6 6 6 6 8 M M R R	13,320 6,174 3,139 2,356 1,748 713 414 70 16 1 1 33 9 12,750 11,346 1,346 1,344 11,218 2,139	148 98 73 62 46 31 23 10 4 1 8 3 133 132 40 87 50	90 63 43 38 38 23 18 7 4 1 3 3 75 61 34 79 31	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 DO61 FN04 FN25 FN04 DO00 FN36 FN25 FN05 FN05 FN05 FN05 FN05 FN05 FN06 FN15 7 2 DL92 EL95 DL48 BU16 BU16 BU16 BU16 BU16 BU16 BU16 BU16
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NBOE ABBFJ MEZM  KZDRH  W9EWZ NØAKC NR9Q W89TFH W900 W59V N2BJ W9IIX AC9S W9E W9JML WB9WOZ NG9R KC9ELU K09A W90SI W9IWI KG9JP W89HK KG9N KB9N KB9N	6 Q M A A A A A A A A A A A A A A A A A A	1 70 53,332 144,534 27,639 13,122 4,914 3,645 1,740 1,650 540 416 4396 224 1110 32,040 5,764 2,546 1,496 1,496 1,496 1,496 332 755 418 332 320	1 10 319 551 196 160 82 71 56 50 41 34 30 23 15 10 255 131 67 44 41 32 36 22 22 20 9	1177 1344 221 1111 81 45 44 45 300 33 324 22 20 16 12 14 10 10 120 44 38 26 26 21 19 18	OH O	EN91 EM79 EN80 EN41 P: ACORA EN52 EN44 EN40 EN53 EN61 EN59 EN61 EN50 EN41 EN50 EN43 EN51 EN40 EM79 EN49 EN49 EN53 EN51 EN40 EM79 EN49 EN53 EN51 EN59 EN44 EN59 EN51 EN50 EN44 EN50 EN44 EN53 EN51 EN51 EN51 EN51 EN51 EN51 EN52 EN53 EN51 EN51 EN52 EN53 EN51 EN53 EN51 EN51 EN51 EN52 EN53 EN51 EN51 EN52 EN53 EN51 EN53 EN51 EN51 EN52 EN53 EN51 EN51 EN51 EN52 EN53 EN51 EN53 EN51 EN51 EN53 EN51 EN51 EN51 EN52 EN51 EN53 EN51 EN51 EN53 EN51 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN51 EN53 EN53 EN53 EN51 EN53 EN51 EN53 EN53 EN51 EN53 EN53 EN53 EN53 EN53 EN53 EN53 EN53	VE3MMO VE4EAR VE3WN VE5UF VE5UF VE5UF VE3RSA VA3SV VA3OWW VE3UTT VA7ST VE2GT VA3PCJ VE3MARV VA2LGQ VE3JARVR VA2NOVR XE2PHA KE2HVB XE2X KE2PLA KE2HVB XE2X KE2NL	6 6 6 6 6 6 6 6 6 6 6 6 6 8 8 8 8 8 8 8	13,220 6,174 3,139 2,356 1,748 11,748 70 16 16 13 33 9 12,750 11,346 11,218 2,139 4 11,218 2,139 6 90 28,635 13,202 6,498 360 56	148 98 62 46 31 23 10 4 1 1 8 3 133 132 40 87 50 EXICO 8 114 20 8	90 63 43 38 38 23 18 7 4 1 1 3 3 7 5 61 34 79 31 21 22 4 115 22 3 4 115 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 27 18 18 27 18 27 18 27 18 27 18 27 18 27 18 18 27 18 18 18 18 18 18 18 18 18 18 18 18 18	ON MB ON ON ON ON ON ON ON ON ON ON ON	FN14 EN19 FN03 FN24 D061 FN04 FN25 FN04 FN05 FN05 FN05 FN05 FN05 FN05 FN05 FN05
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JR8QFG	6	4	2	2	QN03	9M4COK	M	990	33	15	JJ00				NLAND					Λ	IALTA		
JAØNFP	6	4	2	2	PM97	9M4CRX	M	28	5	4	OJ05	OF8UV/9	6	504	24	21	KP46	9H1AE	6	26,136	216	121	JM75
JG1GCO JR2WLQ	6	0	0 1	0 1	PM95 PM84									_	D. 4 11.0 F					NAC	LDOV	۸.	
JJ1WWL/1	H	55	11	5	PM96			El	JROPI	Ε					RANCE			ER2RM	6	30	6	4. 5	KN46
JA1GZK/1	н	1	1	1	PM96			Al	USTRI <i>A</i>	A		F6HZZ	6	690 25	30 5	23 5	JN23 IN77	EKZKIVI	0	30	0	3	NIV40
JR1UJX	Q	924	64	11	PM95	0E1SOW	2	108	9	6	JN88	F6CZV/P	6	25	э	э	IIV//			NETH	ERLAN	IDS	
JR1NKN	Q	16	4	4	PM95	OE3MDB	Q	451	22	11	JN88			GE	RMAN	/		PA5WT	Α	399	21	19	J022
JE1ILP	Q	9	3	3	PM95							DL3JJ	6	7,200	100	72	J060	PA5KT	Α	330	19	15	J011
JJ2YKZ	M	12	3	3	PM84			BALEAR	RIC ISL	.ANDS		DK20Y	6	884	34	26	J044						
						AM625VQ	6	12,512	136	92	JM19		-								RWAY		
467 II /D	ь	660	LANKA 33	A 10	5					_				G	REECE			LA9BM	6	1,435	41	35	JP40
4S7JL/R	R	000	33	10	9				ELARUS			J42T	6	792	33	24	KN00			D	DLAND		
		TU	AILANI			EU4AX	2	220	11	10	K013	SV4RRK	6	20	5	4	KM09	SP3UR	6	418	JLAND 22	19	J092
		III	AILANI	,			PO	IAA AIIA	D HED	ZEGOVINA		SV1NZX	6	9	3	3	KM17	SP7AWG	6	36	6	6	J092 J091
HS3LSE	2	324	18	9	OK14	E7TT	6	9,315	115	ZEGOVINA 81	JN92	J48KEF	M	14,080	159	88	KM08	SP9RCX	2	648	27	12	J090
HS3ANP	2	306	17	9	OK14	L/III	U		p: E73S		31472			ш	JNGAR	,			_				
HS4QLM	2	210	15	7	OK17	E71W	6	154	14	11	JN93	HA8XI	Α	9,776	109	52	JN96			PO	RTUGA	L	
HS4LKW	2	200	25	4	OK16	E7ØAA	Н	399	21	19	JN93	HG3X	2	28,320	240	59	JN96	CT7AIX	Α	352	22	16	IM59
E23UYT	2	174	29	3	NJ99							HA5JX	2	8	2	2	JN97	CT1BOL	6	4,263	87	49	IN51
E29UGB	2	132	22	3	NJ98				ILGARI			HA5UA	6	2,700	60	45	JN97	CT1GVN	6	3,978	78	51	IM67
E24VSR	2	128	16	4	OJ06	LZ2ZY	Α	1,600	40	20	KN13	HA7LW	6	858	33	26	JN97						
HS5NMF	2	114	19	3	OK03	LZ1YE	6	460	23	20	KN22	HA1RJ	6	72	9	8	JN87				MANIA		
HS8JWH	2	102 90	17	3	NJ98 OK14	LZ2JOW	Q	12	3	3	KN34	HA2KSD	6	16	4	4	JN97	Y02GL	Α	2,244	43	34	KN05
E24KHS HS8GLR	2	64	15 <b>16</b>	2	0J07			CI	ROATIA	١		HA1ZH	Н	6,125	87	49	JN86	YO7LYM YO5BRE	A	364 330	17	13 15	KN14 KN07
E29AU	2	36	6	3	OK03	9A1CBM	Α	2,562	52	42	JN83	HA2VR/P	Н	4,588	79	37	JN87	YO7LDT	A A	330	16 2	2	KN14
227710	-	00			Op: E21IZC	ALCDIVI	^	2,302	32	42	Op: 9A5ST	HA5KDQ	Q	24,621	191	87	JN97 Op: HA5IW	YO2NAA	6	828	36	23	KN05
HS6ZBQ	2	36	6	3	NK96	9A3CJW	Α	42	6	6	JN83	НАЗНХ	Q	1.218	42	29	JN86	YO7AWZ	6	272	17	16	KN14
E2ØYLM	2	18	3	3	OK16	9A9I	2	5,562	103	27	JN85	HA6OA	0	1,210	3	2	JN97	YO2LEL	6	54	9	6	KN05
HS4ZGZ	2	12	3	2	OK07	9AØV	M	13,940	170	41	JN95	HA6W	M	95,029	382	163	KN08	Y07CKP	6	30	6	5	KN14
HS4WLA	2	8	2	2	OK17							HG6Z	M	8,424	117	36	JN97	Y03GNF	6	20	5	4	KN34
HS8JKY	2	8	2	2	NJ98				I REPU									Y05CUQ	6	20	5	4	KN16
E21HSY	Q M	8 11,400	2	2 19	OK03	OK1DC	Α	8,610	107	42	JN69			IR	RELAND	1		YO6MT	6	12	4	3	KN26
E27AAA E24TAQ	M	10,836	300 258	21	OK04 OK04	OK1GTH	2	16,376	178	46	JN69	EI5IX	6	2,232	62	36	1053	YO8SAO/P YO5AXF/P	H Q	18 176	6 14	3 11	KN26 KN16
E27AL	M	10,800	270	20	0K25			DE	NMAR	K								TUSAXF/P	u	1/0	14	- 11	KNIO
HS9JGQ	M	8,600	172	25	OK06	OU3U	6	16	4	4	J045				ITALY					SC	OTLAN	n	
E24SBC	M	5,916	174	17	OK03		-	.0		•		IQ4FF	6	456	24	19	JN64	GMØV	Α	588	28	21	1085
HSØQQB	M	5,180	185	14	OK04			EN	IGLANI	D		I4JEE IZ1DFG	6	210	15 12	14 10	JN54 JN44						Op: GMØOQV
HS1EFA	M	2,400	150	8	OK03	GØFPU	6	1	1	1	1092	IZ IDFG	6 u	120 1.032	43	12	JN44 JN55						
HS3PIK	M	1,496	68	11	OK05							IZ3NVR	Н	30	6	5	JN65			S	ERBIA		
E28AD	M	1,296	54	12	NK98			EUROP				IZ3ALW	Q	1	1	1	JN65	YU1AHW	6	1,302	42	31	KN13
E23VYK E2ØAE	M M	1,122 468	51 39	11 6	OK16 OK04	R6KA	6	825	33	25	KN75		_	-	-	-							Op: YT2TA
HS3WZO	M	264	22	6	0K04 0K14	RD3FD R6CS	2	4,368 4,320	56 54	39 40	L005 KN95				ATVIA			YU1RA	6	108	12	9	KN04
HS9AY	M	114	19	3	0,106	R3CT	2	3,196	47	34	K086	YL3CAAC	Н	2	.A I VIA	1	K006	YU1BFG	M	11,084	128	68	KN04
E28LX	M	96	12	4	OK08	UA1ANA	2	2,340	39	30	KO69	YL3CAAD	н	2	1	1	K006						
HS3NJP/R	R	7,040	176	20	4	RK1AS	Q	2,720	40	34	KP40			-							ICILY		
E27DIX/R	R	2,898	63	23	5	RN3DKQ	Q	162	9	9	KO85			LIT	HUANI	Α		IT9XTP	A	12,870	143	90	JM68
E22EXA/R	R	64	8	4	2	UA6AH	M	168	12	7	KN94	LY2FN	2	40	5	4	K014	IT9NAN	6	986	34	29	JM77
		WEST		/CIA				FUDOD	FAN TI	IDVEV					CEDON	1.0				CI	OVENI		
9W2JMW	0	WEST 1	MALA'	1 SIA	0J12	TA1D	6	EUROP 4.655	EAN IL 95	JRKEY 49	KM39	Z3K	6	IVIA 16	CEDON 4	IA 4	KN02	S59A	6	5L 6.633	OVENIA 99	A 67	JN76
7VVZJIVIVV	u	- 1	- 1	- 1	0312	INID	0	4,000	73	47	VINIDA	LON	0	10	4	4	KINUZ I	337M	0	0,033	77	07	JIV/0

# The "Unofficial" Left Coast Report for the 2017 CQWW VHF Contest

### BY BRUCE KRIPTON, KG6IYN

It was the analog of times. It was the digital of times.

As would be the norm for my operating in any contest, I started this event about two hours after the starting gun. With work and family obligations (both of those are also important), there wasn't time to stage and build a day in advance as I normally try to. All work to set up and run the event happened Saturday morning with subsequent teardown Sunday afternoon, once the contest was over (for those interested, a "complete" time lapse video of the event from beginning to end is available here: <a href="http://bit.ly/2zkOnLv">http://bit.ly/2zkOnLv</a>.

Radios turned on, computer running, time synced to WWV and it's off to the races. Coming out of the gate, it's all local traffic, with a few exceptions 300 miles east in Arizona on 2 meters.

About an hour in for me (close to three hours in from the official start time) propagation on 6 meters starts up to the Pacific Northwest: Oregon, Washington, Idaho and various parts of Canada. As the next couple of hours progress, Es starts a slow, clockwise rotation towards the Midwest and Great Lakes region and some odd hits to the Northeastern U.S. that became more of a persistent "path" for well over two hours.

After that, on 6 meters, it was random contacts in the 500- to 1,000-mile range to the Texarhoma region. As we got into the late afternoon hours and rolling in to early Saturday evening, it

was back to the Pacific Northwest again, which is where the evening ended.

Sunday morning, all was quiet on the 6-meter side, but it was time again to catch the "early birds" in Arizona and Nevada on 2 meters (Thanks to the Desert Rats and other clubs that are encouraging activity during these events). As midmorning progressed, 6 meters came to life in a big way to the southern central states again [with shorter and longer hops via Sporadic E (Es) mixed in] and stayed that way until the closing bell at end of the contest.

And now for the weird and Left Coast-related observations:

If you happened to "watch" the contest on the propagation reporting sites on the internet, it was clear that almost all of the reported activity was from the central states to the east coast or thereabouts. Way off to that infamous lower left-hand corner of the continental United States, there was only a small group of operators working the openings on 6 meters. Here is where I describe why I opened the ULCR for 2017 with "It was the analog of times."

If you happened to participate in the ARRL June VHF Contest a month earlier, there was a big "game changer" that happened with the latest release of WSJT X and its JT65 updates right before the contest. Effectively it made contacts possible even when there was no apparent propagation mechanisms avail-

S56P	2	23,280	194	60	JN76	UT2UB	2	408	17	12	K050
S59GS	0	1.058	31	23	JN75	UR80F	2	252	18	7	KN77
33703	Q	1,030	31	23	31473	UR7QD0	2	160	16	5	KN77
			SPAIN			URØQA/P	2	150	15	5	KN77
FA1ASC	Α	7.006	104	62	IN70	UR7QDU	2	14	7	1	KN77
FB1DJ			104 88	62 49		EM3U	Ĥ	456	19	12	KN59
EA1HRR	A	4,459 2.914	56	49	IN52 IN83	UT1ZZ/A	н	4	2	1	KN48
FA3HJO	A	2,914 962	37	26	JN11	UT6FY	0	2.924	48	34	KN77
EA3HJU EA4DE	A 6	6.528	102	26 64	IN80	UR8GZ	Q	1.875	40	25	KN66
FA5IDO	6	4,674	82	57	IM98	UY5ON	0	1,512	37	24	KN89
EA3IDQ EA1DHB	6	2.948	67	44	IN82	UX4IJ	Q	1,218	29	21	KN88
FA4AA	6	2,946	60	47	IN80	UT3G/P	ō	1.088	32	17	KN76
EA3AYQ	6	1,666	49	34	JN11	0.000	-	1,000		••	Op: USØGB
EA3ATQ EA3KN	6	64	8	8	JN01	UR6QW	0	256	16	8	KN77
EA4CU	Q	180	14	12	IN80	UZ7W	M	3.108	60	42	KN18
EA4CU	u	100	14	12	IIVOU	UT7E	M	2,346	44	34	KN78
		S	WEDEN			0172		2,010		0.	
SM6WET	6	49	7	7	J068						
SM4GGC	2	16,000	100	80	J069			SOUTH	i ame Razil		
		- 11	KRAINE			PU2TRX	Α	220	30	4	GG66
US1Q	Α	6,751	99	43	KN86	PY2ZZ	Α	168	28	3	GG66
0310	А	0,731	77	43	Op: UT1IC	PY2AXH	Α	51	9	3	GG66
UY1HY	Α	4.230	61	47	КО60	PU1XZU	Α	32	4	4	GG77
UT7QF	A	2.204	50	29	KN77	PP5EK	Α	2	1	1	GG43
UY7ON	A	1.632	40	24	KN77	PV8DX	6	63	9	7	FJ92
UT8LE	A	1,232	31	22	KN79	PV8AZ	6	15	5	3	FJ92
UT7QB	A	765	31	17	KN77	PY2NF	2	768	64	6	GG66
UT3UA	A	648	27	24	K050	PU2TYA	2	30	15	1	GG66
UZ5Q	A	319	20	11	KN77	PY2KS	2	30	15	1	GG66
UX2OL	A	208	13	8	KN87	PU2NAX	2	28	14	1	GG66
UY5Q0	A	104	9	8	KN77	PY2TTE	2	20	5	2	GG76
UT2QQ	A	99	11	9	KN77	PU2MVE	2	16	8	1	GG66
UY5YA	A	28	7	4	KN87	PY2RBN	2	10	5	1	GG66
UT5EL/A	A	18	3	3	K031	PU2PSP	Q	111	21	3	GG66
UR5LEH	A	8	2	2	KN89	PY2BI	Q	16	4	2	GG67
UW7LL	6	1,656	46	36	KN79	PU2MMP	M	1,192	77	8	GG66
UW1HM	6	1,400	40	35	KN69	PY2LCD	M	200	27	4	GG66
UT8IO	6	1,140	38	30	KN87						
US8ZAL	6	660	30	22	KN66				IEZUEI		
UX4UA	6	285	19	15	K050	YV6CR	Α	168	14	8	FJ78
UY9VY	6	121	11	11	KN68						
UT6U	6	108	11	9	K050			0115			
UT4XU	6	99	11	9	KO40				CK LC		
UZ5U	6	72	9	8	K071						Checklogs are
UT5CB	6	16	4	4	KN59	always ap					72U, EA8BPX,
UR5QW	6	6	3	2	KN77						, LY2X, LZ1VQ,
UX0FF	2	10.560	80	66	KN45				2HHX,	UR1I, UR4	1LIN, UR5WMM
UR3EE	2	5,220	58	45	KN88	UT4UFZ, Y	050H	Э.			
UT7EL	2	1,560	39	20	KN77			DICO		TED	
UXØQQ	2	990	33	15	KN87		_	DISQ			
UY7L0	2	900	25	18	K080	E24QND -	Exces:	sive unveri	fied QS	O's and g	rids.
UT8LN	2	736	23	16	KN89						
	_										

able on 6 meters. So, for that event, there were more folks on digital than I have ever seen ... either on the radio by listening, or on the computer via the waterfall. The humorous note for me was seeing 20 to 30+ traces (or more) going by on the computer screen, all of them more than strong enough (many were S-9+) to have easily been worked by phone. So, for those of us on the Left Coast, we were taking advantage of slow, but solid runs, as well as search-and-pounce operations, without contention on phone and CW (analog), while others were fighting it out on digital with lots of other folks and making a digital Q every three to four minutes at best.

KN66 KN88

Jumping back to the current CQWW VHF Contest, the previous week saw the release of WSJT X and its improved FT8 mode. Now clearly there's an advantage that FT8 can potentially make a valid contact and exchange in about 30 seconds, instead of three to four minutes with JT65, but we observed the same challenges noted in the June ARRL VHF Contest. Twenty to 40 signals at a time on the waterfall, most signals over S-9, and many stations running more power than needed while causing interference to other stations also trying to make contacts. The folks out here on the Left Coast once again leveraged phone and CW to work the spotty Es conditions that prevailed for the duration of the contest, where often there was only a short window for a full exchange of information to make a valid contact entry. For much of the contest, the propagation did not support second chances.

The other interesting aspect was that so many participants were playing with digital, the calling frequencies and spots adjacent to them on CW and phone were often dead quiet. No one calling CQ, no local chatter, etc. So while all was quiet here, there were huge pileups in the central states and eastern seaboard on phone, CW, and digital. If you weren't calling CQ from the Left Coast, you weren't making contacts, despite

reports several of us were in "solid" to Texas for several hours, we heard no traffic on our side — just CQ replies from random grid squares that the Es was kind enough to "light up" for us.

#### **Lessons Learned**

We observed and "eavesdropped" on many PSK-31 and WSJT-X based QSOs. It was interesting, but it was clearly a detractor that so many were learning the ropes in a contest venue. It was also interesting to "see" a signal jump from a mid-S "something" to S9+20 or more when the operator got frustrated and didn't think he was getting out. The point again was that there was a lack of folks using more conventional modes (CW, phone) when the propagation supported it. For those on the Left Coast, jumping on the radio and listening to the calling frequencies for a few moments, hearing nothing and turning off the radio was an opportunity lost. Call CQ for at least several minutes, spin the dial up beyond 50.200, and at least to 50.350, to see if you can "hear" any digital activity, which could be an additional indicator the band is open to somewhere.

For the folks doing digital — if you're getting chewed up in the dogpile or pileup and the propagation is good, go back to CW or phone where you'll likely make loads of contacts with those who do not have digital capabilities, then fall back to digital modes when the propagation enhancement starts to fade.

As always, I want to thank to folks at *CQ* Magazine for sponsoring and supporting this event each year as well as the operators who also played on the airwaves over the weekend. To date, and having enjoyed this contest for over 10 years, from here on the Left Coast, this was a new high-water mark for new and longtime operators participating in the contest – a trend I hope will to continue to grow.

Comments and feedback are always welcome, you can email here: <kg6iyn@arrl.net>. - 73, Bruce, KG6IYN