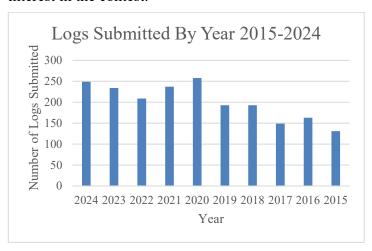


# ARRL International EME Contest 2024 Results

By Skip Paulsen, W1PV (flathood@rcn.com)

The 2024 ARRL International EME Contest is in the books, and activity levels were high. Two hundred forty-nine logs were submitted in the contest, the highest number of entries in recent years. A total of 13,384 contacts were reported, which is up from 12,923 in 2023. 2024 heralded a major change in the contest's scoring, as multipliers were changed to Maidenhead grid squares from US states, Canadian provinces, and DXCC entities, spurring greater interest in the contest.



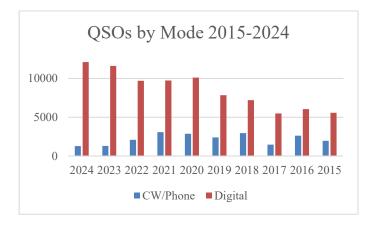
#### The Bands

The band with the highest number of contacts reported is 1.2 GHz, with more than 50% of all contacts in the contest made on that band. Seven thousand thirty-four contacts were reported on the band, an increase of 663 logs from 2023. The increasing popularity of 1.2 GHz can likely be attributed to two factors.

First, the availability of smaller antenna systems makes it a popular choice for stations that wish to deploy a portable EME station. Second, a number of operators are chasing the ARRL Worked All States and VHF/UHF Century Club awards on that band. Some operators are taking advantage of the portability of these stations to activate more than one state or Maidenhead grid square during the two 1.2 GHz weekends of the contest.

144 and 432 MHz were also very popular bands in the contest, with 3,091 and 1,881 contacts reported on those bands, respectively. 144 MHz saw a drop of 1,069 contacts last year, while 432 MHz saw an increase of 570 contacts. The two bands comprised 37% of the total contacts reported during the contest. 10 GHz also saw a healthy growth in activity in 2024, with 803 contacts reported, which is 289 more than in 2023.

Total	Total QSOs Reported by Band and Mode								
Band	CW&PH	Digital	Total QSOs	Logs					
50	0	291	291	64					
144	18	3,073	3,091	75					
222	0	53	53	8					
432	1	1,880	1,881	60					
902	0	22	22	3					
1.2GHz	1,147	5,887	7,034	115					
2.3GHz	46	113	159	15					
3.4GHz	4	5	9	3					
5.7GHz	18	15	33	7					
10GHz	37	766	803	30					
24GHz	8	0	8	4					
Total	1,279	12,105	13,384						



In addition to the earlier mentioned, a new generation of VHF/UHF transceivers has been released. The Yaesu FT-726R and Kenwood TS-790, while excellent radios, have become a little long in the tooth. The ICOM 9700 and 905 have

done a good job of replacing them. Both provide excellent performance as well as ease of connectivity between computers and radios. The IC-905 also features frequency coverage not available just a few years ago. In addition, there have been a number of articles published on optimizing smaller dishes to match the performance of much larger dishes.

Bill, KB2SA, made an excellent presentation at the 2024 EME Conference outlining how he has optimized his 1.9 M dish to the point where it will match the performance of a 3- or 4- meter dish on 1.2 GHz. His results in the contest testify to that.

10 GHz will probably be the next breakout band. As I write this, my own 10 GHz station, complete with 10W and a 1.2-meter dish sits at my feet, begging to be put up on a small tower.

#### **The Winners**

I'm not going to list every winner in each category. That information can be found in the attached spreadsheets. I will attempt to concentrate on the interesting numbers.

While 6 meters is not generally considered an EME band, Dave, KJ9I, has proven otherwise. It seems that if you worked anyone on 6 meters, it was Dave. His 1.8-million-point score was just short of OK1DIX also single op but on 2 meters. Well done to both Dave and Ladislav. Clark, W8TN, reports working Dave on 6 meters for his first QSO on that band. Considering that Clark's history on EME goes back to 1980, his excitement was notable.



Half of the 4x10 6 Meter LFA array at KJ9I's station. [Peter Martin, WD9EKV, photo]

At the top of the results are 2 very notable stations. In the Single Op, All Band category, Zdenek, OK1DFC scored an amazing 7.5 million points and finished just behind K5N at 7.7 million points. K5N was a Multioperator, All Band station that was a memorial operation remembering Marshall, K5QE (SK). Both stations put in a monumental effort in their respective categories.

#### **Gone, but Not Forgotten**

I feel that I would be remiss if I did not make note of three stations that were not in the results this year. We lost several EME stations that need to be honored.

Al, K2UYH, was a pioneer in EME. Most notably he organized the first EME contact on 432 MHz between North America and South America, allowing the first Worked All Continents award on that band. Al was the organizer of the 2024 EME Conference but, sadly, passed away shortly before the event. He was a fellow member of the Mt. Airy VHF Radio Club (PackRats) and will be missed.

Marshall, K5QE, was a well-known contester on both EME as well as VHF/UHF. He could be found on the EME boards during each VHF/UHF contest drumming up QSOs to drive the multiplier count up for K5QE. Marshall was also an EME Dxpeditioner. I remember working him at VP8DQE in 2015. Marshall was happy to work from the Falklands to New England. I never told him that W1PV had moved to PA in 1986.

Last but not least, Bernd, DL7APV, was mostly noted for his work on 432 MHz where his array of 128x11 element Yagis was unmatched. The multiyear construction project is well documented and can still be found online.



The station of Carsten, DM9EE, sports an 8x11 element 432 MHz array that was given to him by Bernd, DL7APV (SK). It was a prototype for Bernd's 128x11 array. [Carsten-Thomas Dauer, DM9EE, photo]

#### 2026 EME Conference

I have been asked by a few commentors to promote the 2026 EME conference. I think that is an appropriate idea and I am glad to do so. It will be held in Tenerife in the Canary Islands from May 28 – May 31, 2026. Since I knew little about that location, I searched and found an excellent YouTube video produced by Steve Marsh. It tells you all you need to know about the location. I know that I'll be going. Get ready and make your plans now.

Lastly, it seems that there are no logging programs for the EME contest. Now that our logs need to be submitted online and the number of QSOs has reached a significant number some help would be nice. That would also ease submission to LoTW. I personally use one of the popular loggers for day-to-day as well as contesting. I nudge the designer every year and remind him that if he can support all the state QSO parties, he should be able to do likewise for the growing number of EME Contesters.

#### **Top Three Scores in All Band Categories**

Single Operator, All Mode, All Band					
Call Sign Score QSOs Mults					
OK1DFC	7,504,900	299	251		
N1AV	6,490,400	266	244		

NØAKC	1,945,800	141	138					
Single Operator, CW/Phone Only, All Band								
Call Sign	Score	QSOs	Mults					
G3LTF	517,500	75	69					
WA6PY	189,000	45	42					
SP3XBO	78,300	29	27					
Multiop	erator, All Mo	de, All I	Band					
Call Sign Score QSOs Mults								
Call Sign	Score	QSOs	Mults					
<b>Call Sign</b> K5N	<b>Score</b> 7,660,800	<b>QSOs</b> 288	Mults 266					
K5N	7,660,800	288	266					
K5N OH1LRY	7,660,800 2,006,400	288 152	266 132					
K5N OH1LRY W3SZ	7,660,800 2,006,400	288 152 130	266 132 115					
K5N OH1LRY W3SZ	7,660,800 2,006,400 1,495,000	288 152 130	266 132 115					
K5N OH1LRY W3SZ Multiopera	7,660,800 2,006,400 1,495,000 tor, CW/Phone	288 152 130 e Only,	266 132 115 All Band					



Mila, OK1VUM, used this impressive homebrew 32x9 element array to take first place in the Single Operator, All Mode, 432 MHz category. [Mila Hakr, OK1VUM, photo]

## Top Three Scores in Single Operator, Single Band Categories

Single Operator, CW/Phone Only, 1.2 GHz							
Call Sign	Score QSOs Mults						
KL6M	495,000	75	66				
DG5CST	456,000	76	60				
G4CCH	388,600	67	58				
Single Operator, All Mode, 50 MHz							
Call Sign	Score	QSOs	Mults				
кл91	1,805,500	157	115				

K1UU	6,400	8	8					
ZD9GJ	6,400	8	8					
JG1TSG	3,600	6	6					
Single Op	Single Operator, All Mode, 144 MHz							
Call Sign	Score	QSOs	Mults					
OK1DIX	1,870,500	145	129					
SM2BYC	1,744,600	143	122					
W9IP	1,411,200	126	112					

Single Op	perator, All Mode	e, 432 M	lHz
Call Sign	Score	QSOs	Mults
OK1VUM	1,108,800	112	99
VK2CMP	530,400	78	68
SM4GGC	501,600	76	66
Single Op	erator, All Mode	, 902 M	Hz
Call Sign	Score	QSOs	Mults
W5AFY	3,600	6	6
Single O	perator, All Mod	e, 1.2 G	Hz
Call Sign	Score	QSOs	Mults
OK2DL	2,590,000	185	140
DF3RU	1,844,500	155	119
PA3FXB	1,612,400	139	116
Single O	perator, All Mod	e, 2.3 G	Hz
Call Sign	Score	QSOs	Mults
IK3COJ	27,200	17	16
KU4XO	24,000	16	15
N6NU	5,600	8	7
Single O	perator, All Mod	e, 10 GI	-lz
Call Sign	Score	QSOs	Mults
OZ1LPR	375,200	67	56
PAØPLY	226,800	54	42
OK2AQ	196,000	49	40

Top Three Scores in Multioperator, Single Band Categories					
Multioperator, All Mode, 144 MHz					
Call Sign	Score				
S51ZO	1,720,200	141	122		
SK6EI	1,058,400	108	98		
VA2WA	474,500	73	65		

Multioperator, All Mode, 1.2 GHz							
Call Sign	Score	QSOs	Mults				
SP3YDE	1,800,000	150	120				
W2ZQ	1,500,800	134	112				
KØPRT	1,452,000	132	110				
Multioperator, All Mode, 10 GHz							
Call Sign	Score	QSOs	Mults				
DL3WDG	252,000	56	45				

#### **Soapbox Comments**

"This was the first time I had ever participated in an ARRL EME contest, so it was an uncertain undertaking for me and I didn't know what to expect. I had agreed with Zdenek, OK1DFC beforehand that he would work the 23cm band in the first part and I would work the 70cm band in the second, in November, we'll switch. The purpose of the agreement was to eliminate mutual QRM, our antennas are less than 5km apart." – OK1VUM

"It's my 4th ARRL EME contest on 23 cm. I made 137 QSOs, 27 of them on cw. I found a very good conditions and a good activity. As written on my log I try to suggest to permit twice QSOs with same station. One on digi and the other on analogue (ssb/cw). This for help to those stations that use only analogue modes to meet more stations. Anyway, i'm quite sure that this was my best result, since I started on 23 cm in May 2021." – IK2DDR

"During this first part, activity was high from Europe with good conditions with low spreading. The second part activity in September was amazing. In memory of Jean Jacques F1EHN SK." – F2CT

"My first EME Contest - with just 2 Yagi's and severely handicapped by a 50 watt limitation, every QSO is a major triumph! I'm greatly appreciative of the super stations whose investments and friendly patience allow folks like me to participate!" – WB1BQE

#### **The Future**

The 2025 ARRL EME contest weekends are August 16 - 17 and September 13 - 14 for 2.3 GHz & Up;

October 11 - 12 and November 8 - 9 for 50 to 1296 MHz. What are your plans for participation?

### Category Winners (in Bold) – by Category by Score

**Single Operator** 

Jiligie Ope								
Call	Operator(s)	Category	Score	Mode	Band	CW/SSB QSOs	Digital QSOs	Mults
G3LTF		SO-CW-ALL	517,500	cw	ALL	75	0	69
WA6PY		SO-CW-ALL	189,000	CW	ALL	45	0	42
SP3XBO		SO-CW-ALL	78,300	CW	ALL	29	0	27
		•	•	•	-		•	•
KL6M		SO-CW-1.2G	495,000	cw	1.2G	75	0	66
DG5CST		SO-CW-1.2G	456,000	CW	1.2G	76	0	60
G4CCH		SO-CW-1.2G	388,600	CW	1.2G	53	14	58
LZ2US		SO-CW-1.2G	202,100	CW	1.2G	47	0	43
SP6ITF		SO-CW-1.2G	201,600	CW	1.2G	48	0	42
CT1DMK		SO-CW-1.2G	189,000	CW	1.2G	45	0	42
SP9VFD		SO-CW-1.2G	188,600	CW	1.2G	46	0	41
F6ETI		SO-CW-1.2G	96,000	CW	1.2G	32	0	30
OK2PE		SO-CW-1.2G	86,400	CW	1.2G	32	0	27
FX1A	F4IEY	SO-CW-1.2G	67,600	CW	1.2G	26	0	26
SP7EXY		SO-CW-1.2G	50,600	CW	1.2G	18	5	22
W4OP		SO-CW-1.2G	48,400	CW	1.2G	22	0	22
JH1KRC		SO-CW-1.2G	36,100	CW	1.2G	19	0	19
D1311		SO-CW-1.2G	15,600	CW	1.2G	13	0	12
	·	<u>.</u>						
клэі		SO-6M	1,805,500	ALL	6M	0	157	115
K1UU		SO-6M	6,400	ALL	6M	0	8	8
ZD9GJ	W7GJ	SO-6M	6,400	ALL	6M	0	8	8
JG1TSG		SO-6M	3,600	ALL	6M	0	6	6
OG2A	OH2RA	SO-6M	900	ALL	6M	0	3	3
UW1HM		SO-6M	900	ALL	6M	0	3	3
F4BKV		SO-6M	400	ALL	6M	0	2	2
G4IFX		SO-6M	400	ALL	6M	0	2	2
I4YRW		SO-6M	400	ALL	6M	0	2	2
JH2COZ		SO-6M	400	ALL	6M	0	2	2
OZ4VV		SO-6M	400	ALL	6M	0	2	2
406AH		SO-6M	100	ALL	6M	0	1	1
ES6RQ		SO-6M	100	ALL	6M	0	1	1
F1IXQ		SO-6M	100	ALL	6M	0	1	1
F5LNU			100	ALL	6M	0	1	1
		SO-6M	100					
FR400		SO-6M SO-6M	100	ALL	6M	0	1	1
GM3POI					6M 6M	0	1	1
		SO-6M	100	ALL				
GM3POI		SO-6M SO-6M	100 100	ALL ALL	6M	0	1	1
GM3POI JA3EGE		SO-6M SO-6M SO-6M	100 100 100	ALL ALL	6M 6M	0	1	1
GM3POI JA3EGE JA3JTG		SO-6M SO-6M SO-6M	100 100 100 100	ALL ALL ALL	6M 6M 6M	0 0 0	1 1 1	1 1 1

OK1DIX	SO-2M	1 870 500	ΔΗ	2M	ا م	145	129
		T		ı	T		
ZL3NW	SO-6M	100	ALL	6M	0	1	1
ZL1RQ	SO-6M	100	ALL	6M	0	1	1
YL2AO	SO-6M	100	ALL	6M	0	1	1
XV9T	SO-6M	100	ALL	6M	0	1	1
WW1L	SO-6M	100	ALL	6M	0	1	1
WA1NLG	SO-6M	100	ALL	6M	0	1	1
W3UUM	SO-6M	100	ALL	6M	0	1	1
VK5PJ	SO-6M	100	ALL	6M	0	1	1
VK4QG	SO-6M	100	ALL	6M	0	1	1
VK3ZL	SO-6M	100	ALL	6M	0	1	1
VK3BD	SO-6M	100	ALL	6M	0	1	1
VK2XN	SO-6M	100	ALL	6M	0	1	1
UW5ZM	SO-6M	100	ALL	6M	0	1	1
UT7QF	SO-6M	100	ALL	6M	0	1	1
UR5LAK	SO-6M	100	ALL	6M	0	1	1
SP4MPB	SO-6M	100	ALL	6M	0	1	1
SM6LPF	SO-6M	100	ALL	6M	0	1	1
S5ØA	SO-6M	100	ALL	6M	0	1	1
PY2XB	SO-6M	100	ALL	6M	0	1	1
OX3LX	SO-6M	100	ALL	6M	0	1	1
OH2RA	SO-6M	100	ALL	6M	0	1	1
NK1K	SO-6M	100	ALL	6M	0	1	1
N4WLO	SO-6M	100	ALL	6M	0	1	1
N3FTI	SO-6M	100	ALL	6M	0	1	1
N2EME	SO-6M	100	ALL	6M	0	1	1
KL7HBK	SO-6M	100	ALL	6M	0	1	1
K7KX	SO-6M	100	ALL	6M	0	1	1
K6EME	SO-6M	100	ALL	6M	0	1	1
						+	1 1
JR1LZK K1TO	SO-6M SO-6M	100	ALL	6M 6M	0	1 1	_

OK1DIX	SO-2M	1,870,500	ALL	2M	0	145	129
SM2BYC	SO-2M	1,744,600	ALL	2M	0	143	122
W9IP	SO-2M	1,411,200	ALL	2M	0	126	112
LZ1DX	SO-2M	1,206,400	ALL	2M	0	116	104
JF1AMX	SO-2M	946,400	ALL	2M	0	104	91
OZ7UV	SO-2M	900,900	ALL	2M	0	99	91
K1FMS	SO-2M	729,800	ALL	2M	0	89	82
VE3WY	SO-2M	678,600	ALL	2M	0	87	78
G8RWG	SO-2M	662,200	ALL	2M	0	86	77
KG6NK	SO-2M	621,600	ALL	2M	0	84	74
UA9YJM	SO-2M	319,000	ALL	2M	0	58	55
JP3EXR	SO-2M	286,000	ALL	2M	0	55	52
YU7SMN	SO-2M	180,400	ALL	2M	0	44	41
K1DG	SO-2M	168,000	ALL	2M	0	42	40
K6KLY	SO-2M	168,000	ALL	2M	0	42	40

YO6DBA		SO-2M	168,000	ALL	2M	0	42	40
ND4X		SO-2M	136,500	ALL	2M	0	39	35
KE8JCD		SO-2M	133,200	ALL	2M	0	37	36
KØTPP		SO-2M	122,500	ALL	2M	0	35	35
NJ9R		SO-2M	122,400	ALL	2M	0	36	34
NH6V		SO-2M	115,600	ALL	2M	0	34	34
AG4W		SO-2M	102,300	ALL	2M	0	33	31
TA2NC		SO-2M	90,000	ALL	2M	0	30	30
TI1K	TI5CDA	SO-2M	84,100	ALL	2M	0	29	29
СТ7АВА		SO-2M	78,400	ALL	2M	0	28	28
JHØWJF		SO-2M	75,600	ALL	2M	0	28	27
LZ3AK		SO-2M	72,900	ALL	2M	0	27	27
SM5CUI		SO-2M	34,200	ALL	2M	0	19	18
IK8YSS		SO-2M	32,400	ALL	2M	18	0	18
YL2FZ		SO-2M	28,900	ALL	2M	0	17	17
YO5TP		SO-2M	24,000	ALL	2M	0	16	15
R2DMD		SO-2M	22,500	ALL	2M	0	15	15
RW9FT		SO-2M	22,500	ALL	2M	0	15	15
JA1DYB		SO-2M	19,600	ALL	2M	0	14	14
SP8OOU		SO-2M	14,400	ALL	2M	0	12	12
SQ1GU		SO-2M	14,400	ALL	2M	0	12	12
N4HB		SO-2M	10,000	ALL	2M	0	10	10
KG7P		SO-2M	8,100	ALL	2M	0	9	9
CT9/OM3RG	OM3RG	SO-2M	3,600	ALL	2M	0	6	6
N8SAN		SO-2M	900	ALL	2M	0	3	3
K6UFO		SO-2M	400	ALL	2M	0	2	2
EA3BZ		SO-2M	100	ALL	2M	0	1	1
EW7RF		SO-2M	100	ALL	2M	0	1	1
JG2TSL		SO-2M	100	ALL	2M	0	1	1
OM8WG		SO-2M	100	ALL	2M	0	1	1

OK1VUM		SO-432	1,108,800	ALL	432	1	111	99
VK2CMP		SO-432	530,400	ALL	432	0	78	68
SM4GGC		SO-432	501,600	ALL	432	0	76	66
OZ9AAR		SO-432	494,000	ALL	432	0	76	65
KD2LGX		SO-432	408,700	ALL	432	0	67	61
GDØTEP		SO-432	389,400	ALL	432	0	66	59
ON7EQ		SO-432	341,600	ALL	432	0	61	56
VK4EME		SO-432	341,600	ALL	432	0	61	56
DL1VPL		SO-432	323,300	ALL	432	0	61	53
DL5BBH		SO-432	259,200	ALL	432	0	54	48
G4RGK		SO-432	259,200	ALL	432	0	54	48
PA6Y	PA2V	SO-432	235,000	ALL	432	0	50	47
W6TCP		SO-432	235,000	ALL	432	0	50	47
OM4EX		SO-432	210,700	ALL	432	0	49	43
DM9EE		SO-432	180,400	ALL	432	0	44	41

SSPP   SO-432   156,000   ALL   432   0   40   39   35									
OKITEH	S56P		SO-432	156,000	ALL	432	0	40	39
UTSDL	RD3FD		SO-432	151,700	ALL	432	0	41	37
SP2WRH	OK1TEH		SO-432	136,500	ALL	432	0	39	35
DLSDAW	UT5DL		SO-432	65,000	ALL	432	0	26	25
DLTURH	SP2WRH		SO-432	57,500	ALL	432	0	25	23
SO-432	DL5DAW		SO-432	46,000	ALL	432	0	23	20
BYSCE	DL7URH		SO-432	37,800	ALL	432	0	21	18
NFB   SO-432	GMØICF		SO-432	23,800	ALL	432	0	17	14
N7GP	BV3CE		SO-432	19,600	ALL	432	0	14	14
SVBCS   SO-432   19,600	KBØZ		SO-432	19,600	ALL	432	0	14	14
JRØWFY	N7GP		SO-432	19,600	ALL	432	0	14	14
WANH   KI4US   SO-432   6,400   ALL   432   0   8   8   IGZXWH   SO-432   4,900   ALL   432   0   7   7   7   7   7   7   7   7   7	SV8CS		SO-432	19,600	ALL	432	0	14	14
JG2XWH	JRØWFY		SO-432	11,000	ALL	432	0	11	10
JG2XWH	W4NH	KI4US	SO-432	6,400	ALL	432	0	8	8
DF6LH	JG2XWH		SO-432	4,900	ALL	432	0	7	7
DF6LH	UD2F					432	0	5	5
K7ATN	DF6LH		SO-432	1,600	ALL	432	0	4	4
DI3AK   SO-432   100   ALL   432   0   1   1   1   WB1BQE   SO-432   100   ALL   432   0   1   1   1   1   1   1   1   1   1	K7ATN		SO-432	1,600	ALL	432	0	4	4
W5AFY   SO-902   3,600   ALL   432   0   1   1	ON4PB		SO-432	İ	ALL	432	0	2	
W5AFY   SO-902   3,600   ALL   432   0   1   1	DJ3AK		SO-432	100	ALL	432	0	1	
SO-902   3,600   ALL   902   0   6   6	WB1BQE		SO-432	100		432	0		
OK2DL         SO-1.2G         2,590,000         ALL         1.2G         35         150         140           DF3RU         SO-1.2G         1,844,500         ALL         1.2G         36         119         119           PA3FXB         SO-1.2G         1,612,400         ALL         1.2G         16         123         116           IK2DDR         SO-1.2G         1,567,800         ALL         1.2G         27         107         117           UA9FAD         SO-1.2G         1,467,200         ALL         1.2G         17         114         112           RA4HL         SO-1.2G         1,335,600         ALL         1.2G         18         108         106           DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JI3JIHP         SO-1.2G         947,600         ALL         1.2G         0         113         99           SP5GDM         SO-1.2G         913,500         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G <th>-</th> <th></th> <th>1</th> <th>- 1</th> <th></th> <th></th> <th></th> <th></th> <th><u>'</u></th>	-		1	- 1					<u>'</u>
DF3RU         SO-1.2G         1,844,500         ALL         1.2G         36         119         119           PA3FXB         SO-1.2G         1,612,400         ALL         1.2G         16         123         116           IKZDDR         SO-1.2G         1,567,800         ALL         1.2G         27         107         117           UA9FAD         SO-1.2G         1,467,200         ALL         1.2G         17         114         112           RA4HL         SO-1.2G         1,335,600         ALL         1.2G         18         108         106           DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JIJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G	W5AFY		SO-902	3,600	ALL	902	0	6	6
DF3RU         SO-1.2G         1,844,500         ALL         1.2G         36         119         119           PA3FXB         SO-1.2G         1,612,400         ALL         1.2G         16         123         116           IKZDDR         SO-1.2G         1,567,800         ALL         1.2G         27         107         117           UA9FAD         SO-1.2G         1,467,200         ALL         1.2G         17         114         112           RA4HL         SO-1.2G         1,335,600         ALL         1.2G         18         108         106           DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JIJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G									
PA3FXB									
IK2DDR	OK2DL		SO-1.2G	2,590,000	ALL	1.2G	35	150	140
UA9FAD         SO-1.2G         1,467,200         ALL         1.2G         17         114         112           RA4HL         SO-1.2G         1,335,600         ALL         1.2G         18         108         106           DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         936,000         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         913,500         ALL         1.2G         0         105         87           DL1AT         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,80									
RA4HL         SO-1.2G         1,335,600         ALL         1.2G         18         108         106           DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         686,400	DF3RU		SO-1.2G	1,844,500	ALL	1.2G	36	119	119
DL7UDA         SO-1.2G         1,160,000         ALL         1.2G         11         105         100           YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400	DF3RU PA3FXB		SO-1.2G SO-1.2G	1,844,500 1,612,400	ALL ALL	1.2G 1.2G	36 16	119 123	119 116
YO2LAM         SO-1.2G         1,118,700         ALL         1.2G         0         113         99           JJ3JHP         SO-1.2G         947,600         ALL         1.2G         8         95         92           SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400 <td< td=""><td>DF3RU PA3FXB IK2DDR</td><td></td><td>SO-1.2G SO-1.2G SO-1.2G</td><td>1,844,500 1,612,400 1,567,800</td><td>ALL ALL</td><td>1.2G 1.2G 1.2G</td><td>36 16 27</td><td>119 123 107</td><td>119 116 117</td></td<>	DF3RU PA3FXB IK2DDR		SO-1.2G SO-1.2G SO-1.2G	1,844,500 1,612,400 1,567,800	ALL ALL	1.2G 1.2G 1.2G	36 16 27	119 123 107	119 116 117
SO-1.2G   947,600   ALL   1.2G   8   95   92	DF3RU PA3FXB IK2DDR UA9FAD		SO-1.2G SO-1.2G SO-1.2G SO-1.2G	1,844,500 1,612,400 1,567,800 1,467,200	ALL ALL ALL	1.2G 1.2G 1.2G 1.2G	36 16 27 17	119 123 107 114	119 116 117 112
SP5GDM         SO-1.2G         936,000         ALL         1.2G         0         104         90           YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL </td <td>DF3RU PA3FXB IK2DDR UA9FAD RA4HL</td> <td></td> <td>\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G</td> <td>1,844,500 1,612,400 1,567,800 1,467,200 1,335,600</td> <td>ALL ALL ALL ALL ALL</td> <td>1.2G 1.2G 1.2G 1.2G 1.2G</td> <td>36 16 27 17 18</td> <td>119 123 107 114 108</td> <td>119 116 117 112 106</td>	DF3RU PA3FXB IK2DDR UA9FAD RA4HL		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600	ALL ALL ALL ALL ALL	1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18	119 123 107 114 108	119 116 117 112 106
YU1SAN         SO-1.2G         913,500         ALL         1.2G         0         105         87           PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         0         72         68           UA4LCF         SO-1.2G         489,600         ALL <td>DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA</td> <td></td> <td>SO-1.2G SO-1.2G SO-1.2G SO-1.2G SO-1.2G SO-1.2G</td> <td>1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000</td> <td>ALL ALL ALL ALL ALL ALL</td> <td>1.2G 1.2G 1.2G 1.2G 1.2G 1.2G</td> <td>36 16 27 17 18 11</td> <td>119 123 107 114 108 105</td> <td>119 116 117 112 106 100</td>	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA		SO-1.2G SO-1.2G SO-1.2G SO-1.2G SO-1.2G SO-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000	ALL ALL ALL ALL ALL ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11	119 123 107 114 108 105	119 116 117 112 106 100
PAØTBR         SO-1.2G         824,500         ALL         1.2G         0         97         85           DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700	ALL ALL ALL ALL ALL ALL ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11	119 123 107 114 108 105 113	119 116 117 112 106 100 99
DL1AT         SO-1.2G         806,400         ALL         1.2G         7         89         84           PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600	ALL ALL ALL ALL ALL ALL ALL ALL ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0	119 123 107 114 108 105 113	119 116 117 112 106 100 99
PE1LWT         SO-1.2G         799,800         ALL         1.2G         3         90         86           OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000	ALL ALL ALL ALL ALL ALL ALL ALL ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8	119 123 107 114 108 105 113 95 104	119 116 117 112 106 100 99 92 90
OM4XA         SO-1.2G         753,300         ALL         1.2G         8         85         81           DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0	119 123 107 114 108 105 113 95 104 105	119 116 117 112 106 100 99 92 90 87
DF7KB         SO-1.2G         687,300         ALL         1.2G         0         87         79           G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0	119 123 107 114 108 105 113 95 104 105 97	119 116 117 112 106 100 99 92 90 87 85
G7TZZ         SO-1.2G         686,400         ALL         1.2G         0         88         78           VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0	119 123 107 114 108 105 113 95 104 105 97	119 116 117 112 106 100 99 92 90 87 85 84
VE4SA         SO-1.2G         686,400         ALL         1.2G         4         84         78           KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 0	119 123 107 114 108 105 113 95 104 105 97 89	119 116 117 112 106 100 99 92 90 87 85 84
KB2SA         SO-1.2G         630,000         ALL         1.2G         2         82         75           N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 7 3	119 123 107 114 108 105 113 95 104 105 97 89	119 116 117 112 106 100 99 92 90 87 85 84 86 81
N5TM         SO-1.2G         615,000         ALL         1.2G         1         81         75           UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA DF7KB		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300 687,300	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 0 7 3 8	119 123 107 114 108 105 113 95 104 105 97 89 90 85	119 116 117 112 106 100 99 92 90 87 85 84 86 81
UA4LCF         SO-1.2G         489,600         ALL         1.2G         0         72         68	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA DF7KB G7TZZ		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300 687,300 686,400	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 7 3 8 0	119 123 107 114 108 105 113 95 104 105 97 89 90 85 87	119 116 117 112 106 100 99 92 90 87 85 84 86 81 79
	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA DF7KB G7TZZ VE4SA		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300 687,300 686,400	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 7 3 8 0 0	119 123 107 114 108 105 113 95 104 105 97 89 90 85 87 88	119 116 117 112 106 100 99 92 90 87 85 84 86 81 79 78
KB7Q SO-1.2G 482,400 ALL 1.2G 0 72 67	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA DF7KB G7TZZ VE4SA KB2SA		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300 687,300 686,400 686,400 686,400	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 7 3 8 0 0 4 2	119 123 107 114 108 105 113 95 104 105 97 89 90 85 87 88 84	119 116 117 112 106 100 99 92 90 87 85 84 86 81 79 78 78 75
	DF3RU PA3FXB IK2DDR UA9FAD RA4HL DL7UDA YO2LAM JJ3JHP SP5GDM YU1SAN PAØTBR DL1AT PE1LWT OM4XA DF7KB G7TZZ VE4SA KB2SA N5TM		\$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G \$0-1.2G	1,844,500 1,612,400 1,567,800 1,467,200 1,335,600 1,160,000 1,118,700 947,600 936,000 913,500 824,500 806,400 799,800 753,300 687,300 686,400 686,400 630,000 615,000	ALL	1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G 1.2G	36 16 27 17 18 11 0 8 0 0 7 3 8 0 0 0 4 2	119 123 107 114 108 105 113 95 104 105 97 89 90 85 87 88 84 82 81	119 116 117 112 106 100 99 92 90 87 85 84 86 81 79 78 78 75

OK1IL		SO-1.2G	474,500	ALL	1.2G	0	73	65
OK2ULQ		SO-1.2G	472,500	ALL	1.2G	20	55	63
AA6I		SO-1.2G	468,600	ALL	1.2G	0	71	66
VK4CDI		SO-1.2G	434,700	ALL	1.2G	0	69	63
DU3T		SO-1.2G	427,000	ALL	1.2G	19	51	61
BA7NQ		SO-1.2G	382,800	ALL	1.2G	0	66	58
CE3VRT		SO-1.2G	377,600	ALL	1.2G	0	64	59
CT1WO		SO-1.2G	306,800	ALL	1.2G	0	59	52
YB2MDU		SO-1.2G	290,700	ALL	1.2G	1	56	51
OK1KKD	OK1FAQ	SO-1.2G	280,800	ALL	1.2G	0	54	52
DLØSHF	DF9CY	SO-1.2G	275,000	ALL	1.2G	27	28	50
K6FOD		SO-1.2G	249,900	ALL	1.2G	0	51	49
LB6B		SO-1.2G	249,900	ALL	1.2G	0	51	49
AB6A		SO-1.2G	235,000	ALL	1.2G	0	50	47
VK3NFI		SO-1.2G	234,600	ALL	1.2G	0	51	46
ES3RF		SO-1.2G	220,800	ALL	1.2G	0	48	46
RN6MA		SO-1.2G	220,500	ALL	1.2G	1	48	45
W3TI		SO-1.2G	211,200	ALL	1.2G	0	48	44
JQ3JWF		SO-1.2G	210,700	ALL	1.2G	0	49	43
RX3DR		SO-1.2G	189,000	ALL	1.2G	3	42	42
KGØD		SO-1.2G	184,800	ALL	1.2G	0	44	42
BG7XWF		SO-1.2G	163,400	ALL	1.2G	0	43	38
RX6AIA		SO-1.2G	156,000	ALL	1.2G	0	40	39
KH6FA		SO-1.2G	148,200	ALL	1.2G	0	39	38
KD5CHG		SO-1.2G	125,800	ALL	1.2G	0	37	34
DK1KW		SO-1.2G	108,000	ALL	1.2G	0	36	30
N5BF		SO-1.2G	105,600	ALL	1.2G	1	32	32
F4KLO	F1EBK	SO-1.2G	102,000	ALL	1.2G	0	34	30
SV1CAL		SO-1.2G	96,000	ALL	1.2G	1	31	30
W3IPA		SO-1.2G	93,000	ALL	1.2G	0	31	30
CT2GUR		SO-1.2G	81,200	ALL	1.2G	0	29	28
IØNAA		SO-1.2G	81,200	ALL	1.2G	1	28	28
MØFXX		SO-1.2G	75,400	ALL	1.2G	0	29	26
KN2K		SO-1.2G	70,200	ALL	1.2G	0	27	26
HG5BMU		SO-1.2G	62,400	ALL	1.2G	0	26	24
JA4LJB		SO-1.2G	55,200	ALL	1.2G	0	24	23
W1FKF		SO-1.2G	44,100	ALL	1.2G	0	21	21
JA4UMN		SO-1.2G	400	ALL	1.2G	0	2	2
VE3DS		SO-1.2G	100	ALL	1.2G	0	1	1
	1	<b>I</b> .	<u> </u>	l	ı			
IK3COJ		SO-2.3G	27,200	ALL	2.3G	4	13	16
KU4XO		SO-2.3G	24,000	ALL	2.3G	1	15	15
N6NU		SO-2.3G	5,600	ALL	2.3G	0	8	7
0711 DD		50 100	275 200	A	100		го	
OZ1LPR		SO-10G	375,200	ALL	10G	9	<b>58</b>	56
PAØPLY		SO-10G	226,800	ALL	10G	3	51	42

ONERIQ		30 100	130,000	,,,	100	Ŭ		.0
OZ1FF		SO-10G	174,800	ALL	10G	0	46	38
F2CT		SO-10G	173,900	ALL	10G	6	41	37
кмøт		SO-10G	166,500	ALL	10G	0	45	37
ON5TA		SO-10G	159,100	ALL	10G	1	42	37
IK6CAK		SO-10G	118,400	ALL	10G	0	37	32
LZ4OC		SO-10G	70,000	ALL	10G	0	28	25
GW3TKH		SO-10G	52,800	ALL	10G	0	24	22
W2HRO		SO-10G	50,600	ALL	10G	0	23	22
YO8RHI		SO-10G	48,400	ALL	10G	0	22	22
І6ҮРК		SO-10G	46,200	ALL	10G	0	22	21
I4TTZ		SO-10G	30,600	ALL	10G	0	18	17
IZØJNY		SO-10G	22,500	ALL	10G	0	15	15
VK7ZBX		SO-10G	10,000	ALL	10G	0	10	10
CT1BYM		SO-10G	4,900	ALL	10G	0	7	7
OK1DFC		SO-ALL	7,504,900	ALL	ALL	50	249	251
N1AV		SO-ALL	6,490,400	ALL	ALL	2	264	244
NØAKC		SO-ALL	1,945,800	ALL	ALL	1	140	138
7K3LGC		SO-ALL	1,423,800	ALL	ALL	0	126	113
WA3RGQ		SO-ALL	1,110,000	ALL	ALL	0	111	100
DL1SUZ		SO-ALL	1,069,200	ALL	ALL	8	100	99
KNØWS		SO-ALL	1,008,000	ALL	ALL	2	103	96
YL2GD		SO-ALL	863,300	ALL	ALL	7	90	89
K1WHS		SO-ALL	756,000	ALL	ALL	0	90	84
K4EME		SO-ALL	639,600	ALL	ALL	0	82	78
PA2CHR		SO-ALL	631,800	ALL	ALL	0	81	78
K1OR		SO-ALL	546,700	ALL	ALL	0	77	71
K5DOG		SO-ALL	296,400	ALL	ALL	9	48	52
W5ZN		SO-ALL	291,500	ALL	ALL	0	55	53
NY1V		SO-ALL	270,000	ALL	ALL	0	54	50
WA3GFZ		SO-ALL	260,100	ALL	ALL	0	51	51
UA4AQL		SO-ALL	211,200	ALL	ALL	0	48	44
RJ3DC		SO-ALL	202,100	ALL	ALL	0	47	43
W2LPL		SO-ALL	148,200	ALL	ALL	0	39	38
KØDSP		SO-ALL	105,600	ALL	ALL	0	33	32
K7ULS		SO-ALL	102,400	ALL	ALL	0	32	32
KC2HFQ		SO-ALL	99,200	ALL	ALL	0	32	31
W7TZ		SO-ALL	99,200	ALL	ALL	0	32	31
AG6EE		SO-ALL	67,600	ALL	ALL	0	26	26
WQ5S		SO-ALL	67,600	ALL	ALL	0	26	26
R1NW		SO-ALL	67,500	ALL	ALL	0	27	25
W6BVB		SO-ALL	57,600	ALL	ALL	0	24	24
PJ4MM		SO-ALL	44,100	ALL	ALL	0	21	21
W3HMS		SO-ALL	38,000	ALL	ALL	0	20	19
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SO-10G

196,000

ALL

10G

0

49

40

OK2AQ

HA2NP

SO-ALL

36,100 ALL

ALL

0

19

19

KK4MA		SO-ALL	28,900	ALL	ALL	0	17	17
4Z5CP		SO-ALL	22,500	ALL	ALL	0	15	15
SM5EPO		SO-ALL	10,000	ALL	ALL	0	10	10
ZS4TX		SO-ALL	2,500	ALL	ALL	3	2	5
	·							
Multioper	ator							
SP6JLW	SP6JLW SP6OPN SQ6OPG	MO-CW-ALL	239,200	CW	ALL	52	0	46
OK1KIR	OK1DAI OK1DAK	MO-CW-ALL	900	CW	ALL	3	0	3
F5KUG	F5DYD F6ABX	MO-CW-1.2G	102,400	CW	1.2G	32	0	32
K5N	AF8Z KØAXX K2EZ K5RMN KF5LKG KJ5BLU NV5E	MO-ALL	7,660,800	ALL	ALL	0	288	266
OH1LRY	OH3LWP OH3MCK OH4MVH	MO-ALL	2,006,400	ALL	ALL	27	125	132
W3SZ	NN3Q W3SZ	MO-ALL	1,495,000	ALL	ALL	2	128	115
W4ZST	KI4US W4ZST WG8S	MO-ALL	730,800	ALL	ALL	0	87	84
LU8ENU		MO-ALL	495,800	ALL	ALL	0	74	67
OZ9KY	OZ1DLD OZ1FKZ OZ1GWD OZ1PBS OZ2OE OZ3Z OZ5TG OZ8ZS	MO-ALL	461,500	ALL	ALL	0	71	65
G4RFR	GØAPI G3PFM G3YGF	MO-ALL	196,800	ALL	ALL	1	47	41
K3WM	AC3IE K3WM	MO-ALL	176,300	ALL	ALL	0	43	41
		•			•		•	
S51ZO	S51ZO S52EZ	MO-2M	1,720,200	ALL	2M	0	141	122
SK6EI	SA6AIN SA6AQD SA6BPD SA6FAX SM6BWD SM6LPF SM6LPG SM6THE SM6TOL	MO-2M	1,058,400	ALL	2M	0	108	98
VA2WA	VA2KI VA2WA	MO-2M	474,500	ALL	2M	0	73	65
F6HEO	F5UNH F6HEO	MO-2M	447,300	ALL	2M	0	71	63
W9VW	K9QFL WB9YCZ	MO-2M	84,000	ALL	2M	0	30	28
UA9HO		MO-2M	6,400	ALL	2M	0	8	8
DL3WDG	DL3WDG DL4KGC	MO-10G	252,000	ALL	10G	0	56	45
	T		T	T	T			
W2ZQ	K1JT K2AOA K3DFD KB2MT N2VY W2HRO W2LPL	MO-1.2G	1,500,800	ALL	1.2G	6	128	112
KØPRT		MO-1.2G	1,452,000	ALL	1.2G	6	126	110
IQ2DB	I2DGH I2GUJ I2SVA I2UNE	MO-1.2G	1,138,500	ALL	1.2G	9	106	99
IK5VLS	IK5AMB	MO-1.2G	731,500	ALL	1.2G	7	88	77
VA7MM	VA7MM VE7CNF VE7HRY	MO-1.2G	688,000	ALL	1.2G	10	76	80
PI4Z	PA5KT PE9GHZ	MO-1.2G	418,900	ALL	1.2G	1	70	59
SP3YDE	SP3CET SP3CGR SP3LCD SP3PGN SP3RNY SP3THA SP3TLJ SQ2EAR SQ3DZW	MO-1.2G	181,500	ALL	1.2G	26	124	121
W4ATC	W4WXL WY3O	MO-1.2G	67,500	ALL	1.2G	0	27	25
F5KDK		MO-1.2G	36,100	ALL	1.2G	4	15	19