

# ARRL 2016 International DX Phone Contest Results

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The tower at VP2MMF. Chuck, K1XX, has a clever arrangement to service the Yagi from the roof, giving him more free time at the beach! (Chuck Carroll, K1XX, photo)

Pete, ON4TO, ran 10 miles on Saturday and QSOs on Sunday. Bill, N8NJA, almost made DXCC in a weekend, while John, N6HI, got on the air with five watts and 20 feet of end-fed wire slung out his window. What do these three hams have in common? They all got on for the 2016 ARRL International DX Phone Contest March 5 and 6 despite experiencing many of the excuses so many hams use to stay off the air.

I was once told by a wise ham that there are operators, and there are observers. Observers seem to have a multitude of reasons why they cannot operate, while operators seem to overcome barriers to get on the air.

Are you an operator or an observer? With apologies to David Letterman, it's time for tonight's Top Ten Reasons Hams Don't Contest.

# # 10. I'm too busy to operate the full contest

That's true for many of us. Peter, ON4TO, notes he was busy running the Ostend-Bridges 10-mile run on the Saturday of the contest. Now that's a run! Just operate when you can, you don't need to be on for the entire contest. Or, pick a category, such as a single band that isn't active at all hours. There's a category just for you, so pick one and have some fun.

# #9. I only operate my favorite mode or band

There is a contest for any band or mode you might enjoy, from 160 meters to Hellschreiber. Just take a peek at the ARRL Contest Calendar and choose one!

# # 8. My station is not competitive

Do you avoid that pickup basketball game with friends, just because you might not win? No, because it's all about the sport and the fun. Not to mention all the DX you can work in one weekend. Bill, N8NJA, said "Just about made DXCC!". There is a category in which almost anyone can be competitive, so whether you are single band, QRP, or multi-operator, you can compete with others in similar circumstances. Try it!

# # 7. I'm too old

Not for this sport. As one example of hundreds, Joe, W7QN has been licensed since 1939 and is active in almost every major contest using his vertical antenna atop an apartment building. Joe makes hundreds of CW and phone QSOs and is having a great time. Why not join him?

# #6. I'm too young

Never! There are many talented young contesters. Check out the YOTA Youth Contesting Program in

Europe. Or YACHT, the Young Amateurs Communications Ham Team. We need you for the future of ham radio, and there are many older hams anxious to help. It's a better time than ever for young hams to have access to high-performance stations most of us can only dream of building. If you need a mentor and can't find one, please email your author.

### # 5. The bands are too crowded

Do you prefer to eat at an empty buffet, or one loaded with all types of goodies? A busy band means opportunity. You will have lots of chances to work many stations, including ones you might not often find. And they are looking for YOU. Belly up to the bands and sample a few delicacies!

# # 4. Sunspots are down

That's why we have more than one ham band! Even in low sunspot times, there are some interesting openings on 10 and 15 meters. Twenty meters is a solid producer for the entire sunspot cycle. And don't forget 40, 80, and 160 meters; those lower bands are as good as or better than they were during the peak, and now you will have time to take advantage of them. Conditions do not really get worse during low sunspot times, they merely change.

# # 3. My antennas are restricted

Sadly, an all too common issue. But you don't need a perfect antenna to make contacts. Let's take a look at a few soapbox notes.

N6HI – 5 W to a 20 ft. end-fed wire tied to a rock thrown into a tree out my window. (61 QSOs)

K3RWN - Operated portable from my RV on a 33' wire vertical. Loads of fun! (56 QSOs)

NE8O/4 – Used a dipole in attic of house. 39 countries on 20, 51 on 15, 2 on 10. (233 QSOs)

Most areas are required to permit flagpoles, which make great verticals. Mobile antennas fit anywhere. Wires can be nearly invisible. Attics can host very good antennas; check out articles by attic-master ACØC. Be creative and try something; I think that you will be pleasantly surprised.



You don't need big towers! This quickly raised tribander by John, KCØDEB placed second in the Midwest for the Single Operator Unlimited Low Power category. (John van Eijndt, KCØDEB, photo)

# # 2. I don't have a station at present

Well this one is insurmountable, isn't it? Not at all! Lots of multi-operator contest efforts would be happy to have another contributor. Ask around. Maybe the owner of that great station in your club hates to see it go unused. Ask him if he'd like to see it in the contest. And we now have the most modern solution of all, remote station operation. This is no longer just for experimenters; there are many stations now available for remote operation that are great performers and can be used by anyone with a computer and internet connection. To illustrate how far this technology has come, Alex, KU1CW, recently operated contest station W4AAW remotely, as a Single Operator Two Radio entry!

# # 1. I don't have any contest experience

We all operated a first contest. Even Frank, W3LPL, was once a beginner. We all need your QSOs, so new and slower operators are very much welcomed. Brad, KK6ZLE, Dave, KEØHKV, Chad, KEØGLZ, Dave, KEØOG, and others all commented that this was their first

contest. Ed, KD2KJY noted that he had only received his license a few days before the contest!

Find another contester at your local club and chat. Or locate your local contest club and attend a meeting. Or, perhaps you might visit Contest University at Dayton one year. And of course, please feel free to email your author for contacts or mentorship ideas. But perhaps best method is to just turn on the radio and make some contacts!



Ralph, K9ZO (left) and Brian, K9QQ are sharing 15 meters on their new SDR transceivers at K9CT. Using a run station and a search-and-pounce station effectively on the same band requires a lot of attention to station-building details. (Ward Silver, NØAX, photo)



Not every contester can rock those pink headphones! Jo Ann, ND3JJ operates at NE3F. (Blair Bates, K3YD, photo)

### Top Ten - U.S. and Canada Single Operator, High Power VY2ZM 6,252,480 N1UR 5,448,768 VY2TT (K6LA, op) 5,146,986 CJ3T (VE3AT, op) 4,885,650 W9RE 4,439,544 KQ2M 4,082,166 AA1K 3,337,560 NR5M 3,138,144 K3ZO 2,942,640 K4AB 2,432,673 **Single Operator, Low Power** W1UE 2,482,284 N5AW 1,808,856 N1PGA 1,518,765 W7RM (K2PO, op) 1,412,775 K6XX 1,376,097 NA8V 1,274,016 K1KNO 1,109,544 WB2WPM 966,966 VA3SWG 904,752 VE7UF (VE7JH, op) 809,778 Single Operator, QRP N1TM 427,332 **VE3UTT** 253,752 W6QU (W8QZA, op) 182,532 AB3WS 146,718 NDØC 134,976 KA8SMA 110,568 86,112 K3TW VE3FCT 83,850 K2YGM 69,336 K2GMY 64,746 Single Operator Unlimited, High Power VE3EJ 7,096,032 K3WW 5,106,444 NC1I (K9PW, op) 4,974,930 K1RX 4,562,028 AA3B 4,179,792 W3UA 3,924,858 AA9A (N9UA, op) 3,764,487 N3RS 3,191,166 K5ZD 3,067,968 VE9CB 2,916,267 Single Operator Unlimited, Low Power VA3DF 2,280,066 N2SQW 1,408,590

1,327,374

1,244,196

1,181,373

1,087,824

1,067,616

N2WKS

WW3S

W3KB

N4RA

KS1J

W4ZAO K4DMR	991,116 819,930	VE3DZ K9BGL	475,440 461,328
AA4R	715,200	K5RX	447,876
Single Operator Unlimited, QRP		K2RD	216,315
N4HH	33,264	WK9U	176,043
WB6CZG	4,860	W2AW	173,145
K8ZT	2,025	KM4HI W9ILY	160,908
Single Operator, 160 Meters	_,===	Single Operator, 10 Meters	123,120
W2MF	25,230	W5PR	244,314
NA1DX	6,237	N4OX	201,201
WB4WXE	5,145	K2SSS	178,470
KM1R	3,906	N2PP	165,273
AG4W	3,828	K4WI	84,708
W2VO	2,652	W2RR (WA2AOG, op)	45,627
N7GP (N5IA, op)	2,448	N4IJ	40,320
AA9BD	2,346	W5GAI	39,168
VE3EDY	2,070	NA3M/4 (NA3M/4, op)	37,200
K7CW	210	WD9EXD	35,046
Single Operator, 80 Meters		Multioperator, Single Transmitter,	
W3BGN	76,860	NV9L	4,931,412
AA1BU	67,776	K5TR	4,270,332
W3LL	67,521	N1MM	3,641,790
W1XX	64,872	W3MF	2,348,118
ND8DX	36,000	W5MX	2,261,802
W4DD	16,524	WB2P	1,998,912
ксøмск	14,535	K7RI	1,958,712
KX2S	14,250	K3MD	1,616,940
W8JGU	12,600	W4HZ	1,569,072
N6RO	11,466	K5UA	1,515,621
Single Operator, 40 Meters		Multioperator, Single Transmitter	, Low Power
KI1G	355,635	VE2BWL	1,870,749
W7WA	315,210	N5DO	1,412,028
N2IC	296,646	KT4ZB	1,268,820
W6YX (N7MH, op)	160,866	W3ZGD	806,316
W6RW W6KW	56,160	K3MDX	377,646
K4US (KK4ODQ, op)	42,840 38,988	K2AA	249,678
KE3X	35,442	W1FM	233,415
K90M	31,284	KD7RCJ	202,419
VO1AX	29,865	N9VI	159,300
Single Operator, 20 Meters	23,003	N8YXR  Multioperator, Two Transmitter	115,326
K2R (KD2RD, op)	663,288	• •	C 074 476
VESEV	406,026	K9CT	6,871,476
WR2G	153,699	K1CC	6,652,800
AB1WR	116,145	K6ND	6,213,987
W1AVK	98,010	K8AZ W6WB	5,428,260
NW3H	73,863	W2CG	4,312,011 3,200,148
WA4JUK	70,992	N2GZ	2,462,616
AI3Q	45,066	WA3EKL	2,393,682
WX2N	43,452	KN5TX	2,030,580
W8GOC	38,430	WA2CP	1,977,732
	·	Multioperator, Multitransmitter	1,377,732
Single Operator, 15 Meters		K3LR	18,199,188
N7DD	585,000	W3LPL	14,961,258
W4KZ (W4IX, op)	579,600	VVJLFL	14.JU1.ZJN

WK1Q	8,719,368	Single Operator Ominited, Low Po	wei
K1KI	7,410,609	WP2AA (KK9A, op)	4,279,968
W4RM	6,669,984	CO8ZZ	2,222,154
		EF8R (EA8RM, op)	1,719,468
WØAIH	4,831,500	ZW8T (PS8HF, op)	1,402,650
W4AAW	3,421,056	HI8JSG	1,256,100
K1KP	3,055,620		
NE3F	2,798,211	PY8WW	964,080
		DF2SD	794,010
		V55DX	684,483
		PY2ZR	619,248
Top Ten - DX		XE2AU	480,900
		Cinala On anatan Halinsita d. ODD	
Single Operator, High Power		Single Operator Unlimited, QRP	
KP3Z (N6MJ, op)	8,099,388	OK2FD	92,400
HK1NA (N6KT, op)	7,709,778	JK1TCV	2,574
KP2M (N2TK, op)	5,942,970	JA7KBR (7L4IOU, op)	378
CR6K (CT1ILT, op)	5,547,738	PE2K	162
YN5Z (K7ZO, op)	5,049,432	R7FO	126
KH7M (NA2U, op)	4,804,344		
LX7I (LX2A, op)	4,513,665	Single Operator, 160 Meters	
		UYØZG	105
NP2P (N2TTA, op)	3,932,040	EU2EU	60
TO5A (F5VHJ, op)	3,693,558	S56P	36
UA2F (UA2FB, op)	3,099,870	UA2FT	12
Single Operator, Low Power		UAZFI	12
	F 27F 72F	Single Operator, 80 Meters	
VP2MMF (K1XX, op)	5,275,725	XE2X	201,117
NP2X (K9VV, op)	5,157,432	GM3PPG (G4BYB, op)	172,200
HI3TEJ	4,926,180	EB3CW	115,830
VP9/W6PH	3,373,299	CO2JD	107,856
EC2DX	1,781,136		
P43E	1,559,460	EA1BD	92,379
S5ØA	1,525,578	IK5RUN	73,524
KH6CJJ	1,011,609	9A1TT	66,402
EIØDX (G4XUM, op)	1,007,199	OE6Z (OE6MBG, op)	64,260
EI1A (ON4EI, op)	893,325	RW1A	63,597
	033,323	I4AVG	35,685
Single Operator, QRP		Single Operator, 40 Meters	
VP5H (WØGJ, op)	1,447,740		256.650
F5BEG	125,685	OK7W (OK1CID, op)	256,650
DL8LR	121,728	TMØR (F4ARU, op)	254,700
SP9LJD	120,156	9A7V	239,481
IO9P (IT9SPB, op)	90,954	YT7A (YU7GM, op)	229,923
OE6MBG	61,425	OK1GTH	209,700
CT1BXT	52,065	SP8K	206,280
		YW5T (YV5JBI, op)	188,832
JH10GC	27,072	US1I (UX2IO, op)	171,738
SP4LVK	21,783	HG8R (HA8JV, op)	131,340
JR4DAH	21,708	XE2S	120,060
Single Operator Unlimited, High Po	wer		120,000
P4ØM (VE3LA, op)		Single Operator, 20 Meters	
	6,568,200	D4C (IZ4DPV, op)	773,577
V26M (N3AD, op)	6,049,908	ED1R (EC1KR, op)	444,906
CS2C	4,952,214	OH8L (OH8LQ, op)	407,673
IR4M (IK4MGP, op)	3,843,906	OL1X (OK4PA, op)	393,267
S57AL	2,887,164	S5ØK	387,810
EI6JK	2,544,522		
ES5Q (ES5RY, op)	2,361,840	KH7BB	382,320
S54ZZ	2,014,920	OK1NP	340,752
IZ8EPX	2,013,912	TG9ANF	320,433
WP4SK	1,953,000	RTØF	297,924
=	=,=50,000		

12,871,422

Single Operator Unlimited, Low Power

WE3C

IR6T (IK6JNH, op)	294,066
Single Operator, 15 Meters	
FY5KE (F1HAR, op)	599,664
KH6LC (NH6V, op)	530,151
MIØSMK	423,522
9A3TR	349,164
KP4RV	341,640
G9W (MØDXR, op) OK1CID	334,341 324,900
ОНФІ (ОН9ММ, ор)	323,178
EI1Y (EI5JQ, op)	302,400
ZF2AH	286,578
Single Operator, 10 Meters	
PX5E (PP5JR, op)	645,480
PX2B (PY2LED, op)	562,320
LU5FC	481,839
NP2J	462,780
CV7S (CX7SS, op)	421,260
KP2XX XE1B	415,860 395,772
PY2NDX	338,601
AH6RE	298,932
YV6CR	251,442
Multioperator, Single Transmitter,	High Power
TI5W	9,201,888
6Y1LZ	8,463,840
PJ2T	8,195,916
6Y6Y	7,318,629
PZ5W	6,318,243
TM6M	5,960,319
EI7M	5,532,588
KH6J	4,850,625
TO66R DR1D	4,449,912 4,049,730
Multioperator, Single Transmitter, YV1KK	
IB9O	4,937,400 480,996
EI1E	466,992
OL1C	393,786
M5BFL	371,604
3G1B	263,712
ZY5A	158,415
LU3VE	29,565
UR4RWW	25,326
SJ3A	23,598
Multioperator, Two Transmitter	40.007.400
P4ØL PJ4G	13,937,499
5D3A	13,271,709 9,716,394
ED7P	5,577,582
HI3K	5,182,125
PS2T	4,685,730
M6T	3,772,668
SN8B	3,396,096
CE3CT	3,321,528

II2S	2,220,996
Multioperator, Multitransmitter	
CR2X	13,759,620
C6ANA	9,187,338
9A1A	7,032,021
TI5M	7,027,884
II9P	6,926,841
9A1P	5,398,551
C6ANM	5,105,124
HCØE	3,695,988
EI9E	3,210,636
JA3YBK	1,854,711

# **Conditional Surrender**

You can't talk about a DX Contest and not discuss band conditions. Was 2016 the time to give up on 10 meters? It depends. In US/VE, Single Band Ten Meter scores were down to about a third of 2015. But there were still big scores to be had, and in high band strongholds such as Brazil and Argentina, 10M scores were not down much at all. Conclusion? Keep the faith for 10, but plan to upgrade your 40 and 80 meter antennas.

Despite the decline, participation was strong, with 3,883 logs received, about even with last year's figure of 3,910. Total number of QSOs reported were slightly down, 1.72 million, from 1.88 million last year.

## Clash of the Titans

Who were the big winners on the behemoth end of the scale? These hams operate the stations dreams are made of.

In the fiercely competitive Multioperator, Multi-Transmitter category, Tim's K3LR effort managed to repeat its SSB win of the last several years with 18.2M, after being upstaged by Frank's W3LPL surge on the CW weekend. W3LPL placed second with 15.0 M, while John's WE3C thrust was not far behind with 12.9M. Epic battles will continue here!

Among DX, the CR2X Multi-Multi team led with 13.8M. In second place was an impressive 9.2M showing by C6ANA.

In the Multioperator, Two Transmitter category, Craig, K9CT, led stateside with 6.9M, with Richard, K1CC, and Will, K6ND, very close behind. Offshore, P4ØL turned in 13.9M for the win, with a larger score than the Multi-Multi category! 5D3A earned silver with 9.7M.

What about the single operator efforts? Jeff, VY2ZM, took Single Operator, High Power category with 6.3M, followed by Ed, N1UR, and Ken, VY2TT (K6LA, op). DX was led by KP3Z (Dan, N6MJ, op) with 8.1M, followed closely by HK1NA (Richard, N6KT, op). In the High Power Unlimited category, John, VE3EJ, earned a clean win at 7.1M, with Chas, K3WW, and NC1I (Pete, K9PW, op) closely grouped for second and third. P4ØM (Ken, VE3LA, op) led from South America with 6.6M, followed closely by veteran V26M (Alan, N3AD, op).

# **Matchup among Mortals**

What about contesting for the other 99% of us? Some of the lower power stations are a bit more modest, but staffed with real contesting talent, the scores can be formidable.

In US/VE, the Single Operator, Low Power category was won by Dennis, W1UE, with 2.5 million points. Marvin, N5AW, and John, N1PGA, placed second and third. For the Single Operator, Unlimited, Low Power category, Doug, VA3DF, produced a solid win, with Ken, N2SQW, and Zev, N2WKS, closely spaced for second and third.

Among DX, North America dominated, with VP2MMF (Chuck, K1XX, op) winning the Single Operator Low Power category, and WP2AA (John, KK9A, op) taking the Unlimited gold.

<b>Division Winners</b>		
Single Operator, High Power		
Atlantic	AA1K	3,337,560
Central	W9RE	4,439,544
Dakota	KØTT	2,030,589
Delta Great Lakes	W4KW K8AO	795,906 1,166,277
Hudson	NX2X	1,911,021
Midwest	КЗРА	1,741,698
New England	N1UR	5,448,768
Northwestern Pacific	W7YAQ NR6Q	917,448 772,128
Roanoke	K3ZJ	1,926,474
Rocky Mountain	NCØB	711,552
Southeastern	K4AB	2,432,673
Southwestern West Gulf	N6AA NR5M	606,498 3,138,144
Canada	VY2ZM	6,252,480
Single Operator, Low Power		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
Atlantic	WB2WPM	966,966
Central	KD9MS	793,455
Dakota	KØVVX	116,298
Delta Great Lakes	K5XU NA8V	140,700 1,274,016
Hudson	W2ID	523,107
Midwest	WØYJT	139,860
New England	W1UE	2,482,284
Northwestern Pacific	W7RM (K2PO, op) K6XX	1,412,775 1,376,097
Roanoke	N3ZV	443,808
Rocky Mountain	N7JMO (N7MZW, op)	307,380
Southeastern	K1KNQ	1,109,544
Southwestern	N7IR	678,468
West Gulf Canada	N5AW VA3SWG	1,808,856 904,752
Single Operator, QRP		, .
Atlantic	AB3WS	146,718
Central	KB9NKM	36,057
Dakota	NDØC	134,976
Delta	WB4GHZ KA8SMA	10,710
Great Lakes Hudson	KASSIVIA K2YGM	110,568 69,336
New England	N1TM	427,332
Northwestern	KK7VL	432
Pacific	K2GMY	64,746
Roanoke Southeastern	K4WY K3TW	60,606 86,112
Southwestern	W6QU (W8QZA, op)	182,532
West Gulf	KG5GMN	3,192
Canada	VE3UTT	253,752
Single Operator Unlimited, High Po		
Atlantic	K3WW	5,106,444
Central Dakota	AA9A (N9UA, op) KØKX	3,764,487 1,886,340
Delta	NA4K	902,700
Great Lakes	W8MJ	2,640,000
Hudson	W2IRT	2,212,197
Midwest	KØVXU NC1L(K9PW, op)	846,450 4 974 930
New England Northwestern	NC1I (K9PW, op) KA6BIM	4,974,930 2,183,808
Pacific	K7XC	730,917
Roanoke	K7BV	1,985,454
Rocky Mountain	NØKE	1,143,408
Southeastern Southwestern	KT4Q KY7M	1,954,782 1,825,320
West Gulf	K5ZO	1,543,650
Canada	VE3EJ	7,096,032

Single Operator Unlimited, Low Pov	wer		Roanoke	WA4JUK	70,992
,		1 101 272	Rocky Mountain	W9BNO	3
Atlantic	WW3S	1,181,373	Southeastern	AG4YL	14,352
Central	W9VQ	201,954	Southwestern	KE7GKI	4,032
Dakota	NØHJZ	266,766	West Gulf	KF5ZNQ	30,690
Delta	N4DW	87,870	Canada	VE8EV	406,026
Great Lakes	K8LY	496,584	Single Operator, 15 Meters		
Hudson	N2SQW	1,408,590			
Midwest	AAØAI	692,382	Atlantic	KD2ARU	15,288
New England	KS1J	1,244,196	Central	K9BGL	461,328
Northwestern	N7FLT	292,929	Delta	WA4RNN	35,190
Pacific	K6GHA	515,043	Great Lakes	W8WA	50,568
Roanoke	N4RA	1,067,616	Hudson	W2AW	173,145
Rocky Mountain	KIØJ	472,392	Midwest	KAØP	429
Southeastern	W1MD	312,987	New England	N1DC	69,762
Southwestern	KK6NON	457,659	Northwestern	KD7DCR	51,714
West Gulf	N5JR	657,150	Pacific	K2RD	216,315
Canada	VA3DF	2,280,066	Roanoke	N1LN	95,118
			Southeastern	W4KZ (W4IX, op)	579,600
Single Operator Unlimited, QRP			Southwestern	N7DD	585,000
, , ,			West Gulf	K5RX	447,876
Great Lakes	K8ZT	2,025	Canada	VE3DZ	475,440
Pacific	WB6CZG	4,860	Charles Constant 40 Martens		
	N4HH		Single Operator, 10 Meters		
Southeastern	N4TIT	33,264	Atlantic	K2SSS	178,470
Single Operator, 160 Meters			Central	WD9EXD	35,046
Atlantic	W2MF	25 220	Delta	W5GAI	39,168
		25,230	Great Lakes	W4LID	12,120
Central	AA9BD	2,346	Hudson	WB2AMU	22,350
Midwest	K8MCN	12	Midwest	KEØGLZ	2,046
New England	KM1R	3,906	New England	NN1N	5,865
Northwestern	K7CW	210	Pacific	KF7KTC	4,785
Southeastern	WB4WXE	5,145	Roanoke	W6DVS	6,603
Southwestern	N7GP (N5IA, op)	2,448	Rocky Mountain	K7ULS	324
Canada	VE3EDY	2,070	Southeastern	N4OX	201,201
Single Operator, 80 Meters			Southwestern	K9WZB	23,142
· ·		75.050	West Gulf	W5PR	244,314
Atlantic	W3BGN	76,860	Canada	VY2LI	3,672
Central	WI9H	5,643			-,
Delta	N5RN	4,182	Multioperator, Single Transmitter, F	ligh Power	
Great Lakes	ND8DX	36,000	Atlantic	W3MF	2,348,118
New England	AA1BU	67,776	Central	NV9L	4,931,412
Northwestern	KZ1W	918	Delta	K5UA	1,515,621
Pacific	N6RO	11,466	Great Lakes	W5MX	2,261,802
Roanoke	KCØMCK	14,535	Hudson	AB2DE	963,870
Southeastern	W4DD	16,524	Midwest	NØMA	1,261,113
Canada	VE9OA	5,049	New England	N1MM	3,641,790
Single Operator 40 Meters			Northwestern	K7RI	1,958,712
Single Operator, 40 Meters			Pacific	W7EB	209,622
Atlantic	K4US (KK4ODQ, op)	38,988	Roanoke	W4HZ	1,569,072
Central	K9IDQ	19,620	Rocky Mountain	WY7YL	31,680
Delta	W8FR	17,901	Southeastern	W4TA	172,881
Great Lakes	AD8C	16,200	West Gulf	K5TR	
Hudson	K4BNC	12,540	Canada	VE6AO	4,270,332 118,800
Midwest	WDØBGZ	15,834	Callada	VLUAU	110,000
New England	KI1G	355,635	Multioperator, Single Transmitter, L	ow Power	
Northwestern	W7WA	315,210	Atlantic	W3ZGD	806,316
Pacific	W6YX (N7MH, op)	160,866	Central	N9VI	159,300
Roanoke	KD4RH	29,760		N8YXR	115,326
Rocky Mountain	N2IC	296,646	Great Lakes New England	W1FM	233,415
Southeastern	W6KW	42,840	_		
Southwestern	W6RW	56,160	Northwestern	W7PT	85,344
Canada	VO1AX	29,865	Roanoke	K3MDX	377,646
Simple Oneset - 20.55			Southwestern	KT4ZB	1,268,820
Single Operator, 20 Meters			Southwestern Wort Gulf	KD7RCJ	202,419
Atlantic	NW3H	73,863	West Gulf	N5DO	1,412,028
Central	W9WJ	22,143	Canada	VE2BWL	1,870,749
Dakota	WFØT	1,197	Multioperator, Two Transmitter	)A/A 2 E//	2 202 502
Delta	KD5COL	432	Atlantic	WA3EKL	2,393,682
Great Lakes	W8GOC	38,430	Central	K9CT	6,871,476
Hudson	K2R (KD2RD, op)	663,288	Delta	W4GZX	175,725
New England	AB1WR	116,145	Great Lakes	K8AZ	5,428,260
Northwestern	W7PU	29,346	Hudson	W2CG	3,200,148
Pacific	W7XZ	26,271	New England	K1CC	6,652,800

Pacific	W6WB	4,312,011
Southeastern	N4SVC	1,838,403
Southwestern	NX6T	1,749,384
West Gulf	KN5TX	2,030,580
Canada	VE6FI	964,665
Multioperator, Multitransmitter		
Atlantic	K3LR	18,199,188
Central	WØAIH	4,831,500
Delta	W5TCR	2,268
Great Lakes	KB8O	1,623,780
New England	WK1Q	8,719,368
Roanoke	W4RM	6,669,984
Southwestern	N9NA	73,062

# Let's Go Clubbing

In the Affiliated Club Competition, Unlimited Category, Frankford Radio Club could not repeat their upset victory of last year and slipped to second place with just less than 250 million points. Yankee Clipper Contest Club took the gavel with 274M. Bringing up third place was Potomac Valley Radio Club with 167M.

The North Coast Contesters dominated the Medium club category with 70M. The Northeast Wisconsin DX Association did the same for Local clubs, with 8.9M.

.590 .071 .891 .525 .153 .165 .656 .626 .301	247 182 179 91 146 100 55 70 70
,071 ,891 ,525 ,153 ,165 ,656 ,626 ,301	182 179 91 146 100 55 70
,071 ,891 ,525 ,153 ,165 ,656 ,626 ,301	182 179 91 146 100 55 70
	61
.448 .929 .110 .155 .917 .213 .6661 .438 .801 .438 .149 .736 .392 .791 .715 .543 .121 .540 .874 .239 .459 .374 .893 .583 .751 .637 .754 .009 .754 .755 .754 .755 .755 .755 .755 .755	27 31 49 29 30 33 37 39 30 20 25 16 19 17 6 26 10 19 13 15 17 3 11 12 11 8 26 22 5 8 11 12 11 8 26 27 28 29 30 40 40 40 40 40 40 40 40 40 4
.395	7
.393 .839 .458 .187 .524 .266 .808 .639 .767 .414	9 6 9 8 7 9 9 10 6 3 4
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	148 148 148 149 155 161 161 163 164 163 164 163 164 163 164 164 164 164 164 164 164 164

Mall City Contest Group	850,260	5
Skyview Radio Society	848,655	8
Sunday Creek Amateur Radio Federation	764,631	7
Salt City DX Assn	734,136	4
Northern Arizona DX Assn	685,320	6
Tri-County ARA	647,907	4
Dupage ARC	558,930	3
Oakland County Amateur Radio Society	545,871	3
Metro DX Club	527,880	7
Sterling Park ARC	514,977	7
Peterborough Amateur Radio Club	482,004	8
NorDX Club	420,258	7
Boeing Employees ARS - St. Louis	383,235	3
Murgas ARC	358,524	3
Milford (OH) ARC	317,064	5
Pottstown Area ARC	251,592	3
Fulton County ARC	229,503	3
Southwest Ohio DX Assn	227,610	4
Delaware-Lehigh ARC	226,989	3
New Providence ARC	226,860	5
Calgary ARA	186,714	3
West Park Radiops	168,087	6
San Diego DX Club	168,084	3
Great South Bay ARC	152,613	4
Southern California DX Club	127,836	3
Granite State ARA	95,586	4
Gwinnett ARS	94,833	3
Mt Vernon (OH) ARC Contesters	86,490	4
Alexandria Radio Club	78,699	3
Lone Star DX Assn	62,874	3
Pueblo West Amateur Radio Club	59,328	4
Nanaimo Amateur Radio Association	57,891	4
Sierra Nevada ARS	42,126	3
Clark County Amateur Radio Club	7,524	3

# **Ripe for Records**

Nearly as many records fell in 2016 as last year. Twentytwo new records were set, with 11 by W/VE and 11 by DX stations. Let's look at a few of the biggest changes.

In the big Multi-Operator, Multi-Transmitter category, Team CR2X scored 13.8M to nearly double the European record held by 9A1A since 2002. That's almost 13,000 QSOs. Simply amazing.

D4C (Massimo, IZ4DPV, op) brought in 774k to smash the 464k record of EF8R (Juan, EA8CAC/EA8RM, op) set in 2011 for Single Op 20 Meters from Africa. Not to be outdone, Juan went back to EF8R and set a new Single Op Unlimited Low Power record for Africa, scoring 1.72M to overthrow the 236k figure set by Heijo, EA8OM, in 2011. Nicely done!

Closer to home, John, VE3EJ, set a new Single Operator, Unlimited, High Power figure of 7.1M, besting the 5.2M figure set by Ken, VY2TT, in 2014. Take a bow, John!

All of the ARRL contest records are available online at arrl.org/contest-records. More than 400,000 scores are included in the K5TR Contest database, too.

(kkn.net/~k5tr/scoredb) Records are made to be broken, so start smashing!

Record	Records set, 2016 ARRL DX Phone				
EU	EC2DX	1,781,136	2016	SLP	
ОС	KH6LC (NH6V,	530,151	2016	S15	
AF	D4C (IZ4DPV,	773,577	2016	S20	
AS	RTØF	297,924	2016	S20	
EU	CS2C	4,952,214	2016	SAH	
SA	P4ØM (VE3LA)	6,568,200	2016	SAH	
AF	EF8R (EA8RM)	1,719,468	2016	SAL	
AS	JK1TCV	2,574	2016	SAQ	
EU	OK2FD	92,400	2016	SAQ	
AS	RD8D	11,760	2016	MSL	
EU	CR2X	13,759,620	2016	MM	
1	KI1G	355,635	2016	S40	
5	N2IC	296,646	2016	S40	
9	AA9A (N9UA,	3,764,487	2016	SAH	
VE	VE3EJ	7,096,032	2016	SAH	
8	N4RA	1,067,616	2016	SAL	
VE	VA3DF	2,280,066	2016	SAL	
4	N4HH	33,264	2016	SAQ	
6	WB6CZG	4,860	2016	SAQ	
8	K8ZT	2,025	2016	SAQ	
5	K5TR	4,270,332	2016	MSH	
9	NV9L	4,931,412	2016	MSH	

# Was that Quebec Three Afghanistan Bananastand?

Copying the call and exchange correctly is important; make the extra effort and ask for a fill when you need it. Penalties are assessed for errors, so boost your score by getting the call sign right! The Top Five Accuracy Leaders in major categories are listed in the following table.

# **Accuracy Leaders**

W-VE Single-Op				
Call	Category	QSOs	Error %	Index
VY2ZM	SOHP	4206	1.2	13.504
CJ3T (VE3AT, op)	SOHP	3645	0.8	13.482
VY2TT (K6LA, op)	SOHP	3971	1.5	13.449
N1UR	SOHP	3887	1.6	13.430
W9RE	SOHP	3298	1	13.418
Single-Op Unlimited				
Call	Category	QSOs	Error %	Index
VE3EJ	SAH	4162	1	13.519
NC1I (K9PW, op)	SAH	3330	0.9	13.432
AA3B	SAH	2826	0.6	13.391
K3WW	SAH	3325	1.7	13.352
AA9A (N9UA, op)	SAH	2700	0.8	13.351
Multiop				
Call	Category QSOs	Error %	Index	
K3LR	MM	8940	1.1	13.841
W3LPL	MM	7576	1	13.779
WE3C	MM	6839	1.3	13.705
WK1Q	MM	5174	1.5	13.564
K1KI	MM	4355	1.3	13.509
DX				
Single-Op				
Call	Category	QSOs	Error %	Index
HK1NA (N6KT, op)	SOHP	8051	0.6	13.846
KP3Z (N6MJ, op)	SOHP	8006	0.6	13.843
KP2M (N2TK, op)	SOHP	6246	0.6	13.736
YN5Z	SOHP	5803	0.3	13.734
VP2MMF (K1XX, op)	SOLP	5451	0.8	13.656
Single-Op Unlimited				
Call	Category	QSOs	Error %	Index
P4ØM (VE3LA, op)	SAH	6741	1	13.729
V26M (N3AD, op)	SAH	6245	1.1	13.686
CS2C	SAH	5221	0.6	13.658
IR4M (IK4MGP, op)	SAH	4627	0.5	13.615
WP2AA (KK9A, op)	SAL	4670	0.8	13.589
Multiop				
Call	Category	QSOs	Error %	Index
P4ØL	M2X	13209	0.4	14.081
PJ4G	M2X	12821	0.6	14.048
CR2X	MM	12745	0.6	14.045
5D3A	M2X	9791	1	13.891
C6ANA	MM	8923	0.9	13.861

Let us also celebrate the remarkable achievement of those on the Top Ten Golden Log list; the largest ten error-free logs.

Top 10	Golden	Logs	
Call	QSOs	Category	

Call DJ1AA K7VIT TK5MH K7WP S540 W1MD S56A DK4WA WA2FZB	QSOs	Category					
DJ1AA	555	SOUHP					
K7VIT	383	SOUHP					
TK5MH	354	SOUHP					
K7WP	350	SOUHP					
S54O	333	SOUHP					
W1MD	323	SOULP					
S56A	298	SOUHP					
DK4WA	283	SOHP					
WA2FZB	274	SOLP					
KI7Y	225	SOUHP					

# The Real Top Ten

With the many new and interesting categories added to the ARRL DX Contest over the years, there were more worthy winners than these pages can acknowledge. Don't forget to review the Top Ten table and marvel at these impressive scores. And of course, the other extensive tables and score listings as well.

Most importantly, be sure to put March 4-5, 2017 in your calendar and join the fun next year.

# Regional Leaders

SOQRP/LP/HP = Single-Op All-Band; SO-xx = Single-Op Single-Band; SOUQRP/LP/HP = Single-Op Unlimited; MSL/MSH = Multioperator, Single Transmitter LP/HP; M2/M = Multioperator, Two/Multi-Transmitter

West Coast Region Midwest Region			n	Cen	tral Region	1		Sou	theast Reg	ion	Northeast Region				
Southwe Alberta; B	, Northwesteri estern ARRL Di ritish Columbia RAC Sections	visions;	Mountair Divisio	a, Midwest, Ro n and West Gu ons; Manitoba newan RAC Se	If ARRL and	Divisions; G Ontario Eas	d Great Lakes reater Toront t, Ontario Nor South RAC Sec	o Area, th, and	De	-	noke, and Sou ARRL Divisions		New Englan ARRL Divi Queb	e and	
Call	Score	Cat	Call	Score	Cat	Call	Score	Cat	Call		Score	Cat	Call	Score	Cat
W7YAQ	917,448	SOHP	NR5M	3,138,144	SOHP	CJ3T (VE3AT, op)	4,885,650	SOHP	K4A		2,432,673	SOHP	VY2ZM	6,252,480	SOHP
NR6Q	772,128	SOHP	кøтт	2,030,589	SOHP	W9RE	4,439,544	SOHP	K3Z	J	1,926,474	SOHP	N1UR	5,448,768	SOHP
N6AA	606,498	SOHP	КЗРА	1,741,698	SOHP	K8AO	1,166,277	SOHP	KM4		1,340,625	SOHP	VY2TT (K6LA, op)	5,146,986	SOHP
VA7ST	594,000	SOHP	KM5VI	1,477,080	SOHP	K8GL	867,399	SOHP	K4B		1,189,440	SOHP	KQ2M	4,082,166	SOHP
W6AEA	512,616	SOHP	WD5K	1,348,740	SOHP	VE3KZ	644,304	SOHP	KZ2	<u> </u>	1,088,760	SOHP	AA1K	3,337,560	SOHP
W7RM (K2PO,															
op)	1,412,775	SOLP	N5AW	1,808,856	SOLP	NA8V	1,274,016	SOLP	K1K	NQ	1,109,544	SOLP	W1UE	2,482,284	SOLP
K6XX	1,376,097	SOLP	N7JMO (N7MZW, op)	307,380	SOLP	VA3SWG	904,752	SOLP	N3Z	۲V	443,808	SOLP	N1PGA	1,518,765	SOLP
VE7UF (VE7JH,	200 770	5010	NACC	207.400	COLD	KDOMS	702 455	5015			353.000	5015	14/02/4/04	000.000	601.0
op) N7IR	809,778 678,468	SOLP SOLP	N1CC VE5SF	297,198 289,395	SOLP SOLP	KD9MS VE3VN	793,455 683,100	SOLP SOLP	N9E KK4		352,800	SOLP SOLP	WB2WPM W2TF	966,966	SOLP SOLP
WN6K	665,796	SOLP	KF5VDX	235,074	SOLP	K8PGJ	502,740	SOLP	KD9		339,378 317,775	SOLP	W2IP W2ID	555,660 523,107	SOLP
VVIVOR	003,790	JOLF	KISVDA	233,074	JOLF	Kordj	302,740	JULF	KD3	LA	317,773	JOLF	VVZID	323,107	JULF
W6QU (W8QZA,															
op)	182,532	SOQRP	NDØC	134,976	SOQRP	VE3UTT	253,752	SOQRP	K3T	W	86,112	SOQRP	N1TM	427,332	SOQRP
K2GMY	64,746	SOQRP	NNØQ	31,122	SOQRP	KA8SMA	110,568	SOQRP	K4V	VY	60,606	SOQRP	AB3WS	146,718	SOQRP
KFØX	14,700	SOQRP	WBØIWG	23,100	SOQRP	VE3FCT	83,850	SOQRP	N4Z	'AK	37,380	SOQRP	K2YGM	69,336	SOQRP
N6HI	7,788	SOQRP	KG5GMN	3,192	SOQRP	KB9NKM	36,057	SOQRP	KB4	QQJ	24,900	SOQRP	N3UR	38,130	SOQRP
KK7VL	432	SOQRP	NQ50	810	SOQRP	VE3LJQ	31,920	SOQRP	WB	4GHZ	10,710	SOQRP	N1JEO	28,203	SOQRP
KA6BIM	2,183,808	SOUHP	VE4VT (VE4EAR, op)	2,274,300	SOUHP	VE3EJ	7,096,032	SOUHP	К7В	١V	1,985,454	SOUHP	K3WW	5,106,444	SOUHP
KY7M	1,825,320	SOUHP	кøкх	1,886,340	SOUHP	AA9A (N9UA, op)	3,764,487	SOUHP	KT4	Q	1,954,782	SOUHP	NC1I (K9PW, op)	4,974,930	SOUHP
W7VO	1,136,694	SOUHP	K5ZO	1,543,650	SOUHP	W8MJ	2,640,000	SOUHP	K5E	K	1,828,044	SOUHP	K1RX	4,562,028	SOUHP
VE7NY	1,121,112	SOUHP	NØKE	1,143,408	SOUHP	VE3RA	1,788,468	SOUHP	N4F	IU	1,633,284	SOUHP	AA3B	4,179,792	SOUHP
W6TK	1,040,814	SOUHP	WØJM	1,088,802	SOUHP	K9IMM	1,582,272	SOUHP	W3	GQ	1,539,681	SOUHP	W3UA	3,924,858	SOUHP
K6GHA	515,043	SOULP	AAØAI	692,382	SOULP	VA3DF	2,280,066	SOULP	N4F	RA	1,067,616	SOULP	N2SQW	1,408,590	SOULP
KK6NON	457,659	SOULP	N5JR	657,150	SOULP	VE3HG	566,250	SOULP		ZAO	991,116	SOULP	N2WKS	1,327,374	SOULP
VA7BEC	360,468	SOULP	KCØDEB	539,478	SOULP	K8LY	496,584	SOULP		MR	819,930	SOULP	KS1J	1,244,196	SOULP
K7ANT	314,160	SOULP	KIØJ	472,392	SOULP	VE3JAQ	414,732	SOULP	AA4		715,200	SOULP	WW3S	1,181,373	SOULP
	(L 13%), 258n		AD1C	272,025 <sup>F</sup>		- Version 1.0	394,356	SOULP	N3L		Page 1,2 12f	4 SOULP	W3KB	1,087,824	SOULP

WB6CZG	4,860	SOUQRP	K8MCN	12	SO-160	K8ZT	2,025	SOUQRP		N4HH	33,264	SOUQRP	W2MF	25,230	SO-160
													NA1DX	6,237	SO-160
N7GP															
(N5IA,															
op)	2,448	SO-160	N2IC	296,646	SO-40	AA9BD	2,346	SO-160		WB4WXE	5,145	SO-160	KM1R	3,906	SO-160
K7CW	210	SO-160	WDØBGZ	15,834	SO-40	VE3EDY	2,070	SO-160		AG4W	3,828	SO-160	W2VO	2,652	SO-160
			KBØYH	7,080	SO-40					K4NV	3	SO-160			
N6RO	11,466	SO-80				ND8DX	36,000	SO-80					W3BGN	76,860	SO-80
KZ1W	918	SO-80	KF5ZNQ	30,690	SO-20	W8JGU	12,600	SO-80		W4DD	16,524	SO-80	AA1BU	67,776	SO-80
			WD5BHS	7,380	SO-20	WI9H	5,643	SO-80		ксфмск	14,535	SO-80	W3LL	67,521	SO-80
W7WA	315,210	SO-40	WFØT	1,197	SO-20					WB6RAB	9,720	SO-80	W1XX	64,872	SO-80
W6YX															
(N7MH,															
op)	160,866	SO-40	KK9TT	816	SO-20	K9IDQ	19,620	SO-40		WA4TII	7,020	SO-80	KX2S	14,250	SO-80
W6RW	56,160	SO-40	W9BNO	3	SO-20	W9QL	16,218	SO-40		N5RN	4,182	SO-80			
WA2BFW	26,880	SO-40				AD8C	16,200	SO-40					KI1G	355,635	SO-40
													K4US		
													(KK4ODQ,		
WA7AR	14,841	SO-40	K5RX	447,876	SO-15	VA3QWW	12,789	SO-40		W6KW	42,840	SO-40	op)	38,988	SO-40
			W5RAW	1,716	SO-15	K8YN	7,104	SO-40		K9OM	31,284	SO-40	KE3X	35,442	SO-40
VE8EV	406,026	SO-20	NZ5M	1,008	SO-15					KD4RH	29,760	SO-40	VO1AX	29,865	SO-40
W7PU	29,346	SO-20	KAØP	429	SO-15	W8GOC	38,430	SO-20		W8FR	17,901	SO-40	WB8BPU	19,152	SO-40
W7XZ	26,271	SO-20				KC8QDQ	37,350	SO-20		KZ1A	9,660	SO-40			
													K2R		
													(KD2RD,		
VE7FCO	18,306	SO-20	W5PR	244,314	SO-10	W9WJ	22,143	SO-20					op)	663,288	SO-20
KE7GKI	4,032	SO-20	N4IJ	40,320	SO-10	KC8NLP	5,724	SO-20		WA4JUK	70,992	SO-20	WR2G	153,699	SO-20
			AK5DX	33,807	SO-10	KC8EVS	120	SO-20		K3TXW	17,850	SO-20	AB1WR	116,145	SO-20
N7DD	585,000	SO-15	K5KJ	12,285	SO-10					AG4YL	14,352	SO-20	W1AVK	98,010	SO-20
K2RD	216,315	SO-15	KEØGLZ	2,046	SO-10	VE3DZ	475,440	SO-15		KF4RPJ	13,350	SO-20	NW3H	73,863	SO-20
K7XE	56,772	SO-15				K9BGL	461,328	SO-15		N4ADK	11,070	SO-20			
KD7DCR	51,714	SO-15	K5TR	4,270,332	MSHP	WK9U	176,043	SO-15					W2AW	173,145	SO-15
										W4KZ					
										(W4IX,					
N7RVD	48,546	SO-15	NØMA	1,261,113	MSHP	W9ILY	123,120	SO-15		op)	579,600	SO-15	N1DC	69,762	SO-15
10014/70	22.442	50.40	WY7YL	31,680	MSHP	W9OP	98,532	SO-15		KM4HI	160,908	SO-15	N2YBB	49,062	SO-15
K9WZB	23,142	SO-10	AAØA	28,290	MSHP	11/0051/0	25.046	60.40		N1LN	95,118	SO-15	VE2QQ	26,100	SO-15
KF7KTC	4,785	SO-10	11500	4 442 000	1 4 C L D	WD9EXD	35,046	SO-10		AA4NP	49,368	SO-15	W1NK	15,510	SO-15
KK6PGL	3,510	SO-10	N5DO	1,412,028	MSLP	W9TA	18,270	SO-10		N9GQA	39,204	SO-15			
K6ST	828	SO-10	W5KS	1,980	MSLP	W4LID	12,120	SO-10		*****	201 201	50.40	K2SSS	178,470	SO-10
WD6DX	216	SO-10				KC9GHA	495	SO-10		N4OX	201,201	SO-10	N2PP	165,273	SO-10
													W2RR		
			KNIETY	2 020 500		KEOCKC		50.10		12.43.471	04.700	CO 10	(WA2AOG,	45 627	CO 10
1/701	4.050.743	MACLIE	KN5TX	2,030,580	M2	KE8CKG	3	SO-10		K4WI	84,708	SO-10	op)	45,627	SO-10
K7RI	1,958,712	MSHP		1	-		+		1	W5GAI	39,168	SO-10	WB2AMU	22,350	SO-10
										NA3M/4					
1/710	240 520	Macub				NI) (OI	4 024 442	MCLID		(NA3M/4,	27.200	CO 10	K2CM/7	24 450	60.10
K7JR	318,528	MSHP				NV9L	4,931,412	MSHP		op)	37,200	SO-10	K3SWZ	21,150	SO-10
W7IWW	290,400	MSHP		1		W5MX	2,261,802	MSHP		KM4HVE	9,840	SO-10	NIA N CO	2.641.705	A 46: 15
KØIP	251,250	MSHP		1	-	W8PR	1,492,260	MSHP		14/4117	4.500.075	146115	N1MM	3,641,790	MSHP
W7EB	209,622	MSHP		1	-	W9OAB	125,550	MSHP		W4HZ	1,569,072	MSHP	W3MF	2,348,118	MSHP
										K5UA	1,515,621	MSHP	WB2P	1,998,912	MSHP

202 440	MCLD				NOV/I	150 200	MCLD		KEKDA	222.450	NACLID	KANAD	1 (1( 040	MSHP
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85,344	MSLP				N8YXR	115,326	MSLP		W4TA	172,881	MSHP	W3DQ	1,035,066	MSHP
22,119	MSLP				VE3LS	72,693	MSLP		NR4C	130,746	MSHP			
270	MSLP				WR4U	26,676	MSLP					VE2BWL	1,870,749	MSLP
					W8BI	10,575	MSLP		KT4ZB	1,268,820	MSLP	W3ZGD	806,316	MSLP
4,312,011	M2								K3MDX	377,646	MSLP	K2AA	249,678	MSLP
1,749,384	M2				К9СТ	6,871,476	M2		KB5JC	30,336	MSLP	W1FM	233,415	MSLP
964,665	M2				K8AZ	5,428,260	M2					W3WN	100,980	MSLP
					WA8RRA	239,616	M2		N4SVC	1,838,403	M2			
73,062	MM				W8AJT	161,505	M2		W4UQ	882,108	M2	K1CC	6,652,800	M2
					W8DGN	129,654	M2		W4GZX	175,725	M2	K6ND	6,213,987	M2
												W2CG	3,200,148	M2
					WØAIH	4,831,500	MM		W4RM	6,669,984	MM	N2GZ	2,462,616	M2
					KB8O	1,623,780	MM		W4AAW	3,421,056	MM	WA3EKL	2,393,682	M2
									W5TCR	2,268	MM			
												K3LR	18,199,188	MM
												W3LPL	14,961,258	MM
												WE3C	12,871,422	MM
											ĺ	WK1Q	8,719,368	MM
												K1KI	7,410,609	MM
	4,312,011 1,749,384 964,665	85,344 MSLP 22,119 MSLP 270 MSLP  4,312,011 M2 1,749,384 M2 964,665 M2	85,344 MSLP 22,119 MSLP 270 MSLP  4,312,011 M2 1,749,384 M2 964,665 M2	85,344 MSLP 22,119 MSLP 270 MSLP  4,312,011 M2 1,749,384 M2 964,665 M2	85,344 MSLP 22,119 MSLP 270 MSLP  4,312,011 M2 1,749,384 M2 964,665 M2	85,344         MSLP         N8YXR           22,119         MSLP         VE3LS           270         MSLP         WR4U           4,312,011         M2         W8BI           1,749,384         M2         K9CT           964,665         M2         K8AZ           WA8RRA         W8AJT           W8DGN         WØAIH	85,344         MSLP         N8YXR         115,326           22,119         MSLP         VE3LS         72,693           270         MSLP         WR4U         26,676           W8BI         10,575           4,312,011         M2         K9CT         6,871,476           964,665         M2         K8AZ         5,428,260           WA8RRA         239,616         73,062         MM         W8AJT         161,505           WØAIH         4,831,500         WØAIH         4,831,500	85,344         MSLP         N8YXR         115,326         MSLP           22,119         MSLP         VE3LS         72,693         MSLP           270         MSLP         WR4U         26,676         MSLP           4,312,011         M2         W8BI         10,575         MSLP           4,312,011         M2         K9CT         6,871,476         M2           964,665         M2         K8AZ         5,428,260         M2           WA8RRA         239,616         M2           73,062         MM         W8AJT         161,505         M2           W8DGN         129,654         M2           WØAIH         4,831,500         MM	85,344         MSLP         N8YXR         115,326         MSLP           22,119         MSLP         VE3LS         72,693         MSLP           270         MSLP         WR4U         26,676         MSLP           W8BI         10,575         MSLP           4,312,011         M2         K9CT         6,871,476         M2           1,749,384         M2         K9CT         6,871,476         M2           964,665         M2         K8AZ         5,428,260         M2           WA8RRA         239,616         M2           73,062         MM         W8AJT         161,505         M2           W8DGN         129,654         M2           WØAIH         4,831,500         MM	85,344         MSLP         N8YXR         115,326         MSLP         W4TA           22,119         MSLP         VE3LS         72,693         MSLP         NR4C           270         MSLP         WR4U         26,676         MSLP         KT4ZB           4,312,011         M2         K8BI         10,575         MSLP         K3MDX           1,749,384         M2         K9CT         6,871,476         M2         K85JC           964,665         M2         K8AZ         5,428,260         M2         M4SVC           73,062         MM         W8AJT         161,505         M2         W4GZX           WØAIH         4,831,500         MM         W4RM           KB8O         1,623,780         MM         W4AAW	85,344         MSLP         N8YXR         115,326         MSLP         W4TA         172,881           22,119         MSLP         VE3LS         72,693         MSLP         NR4C         130,746           270         MSLP         WR4U         26,676         MSLP         NR4C         130,746           270         MSLP         WR4U         26,676         MSLP         NR4C         130,746           4,312,011         M2         W8BI         10,575         MSLP         KT4ZB         1,268,820           4,312,011         M2         K3MDX         377,646         X68,70         K83MDX         377,646           1,749,384         M2         K9CT         6,871,476         M2         K85JC         30,336           964,665         M2         WA8RRA         239,616         M2         N4SVC         1,838,403           73,062         MM         W8AJT         161,505         M2         W4UQ         882,108           WØAIH         4,831,500         MM         W4RM         6,669,984           KB8O         1,623,780         MM         W4AAW         3,421,056	85,344         MSLP         N8YXR         115,326         MSLP         W4TA         172,881         MSHP           22,119         MSLP         VE3LS         72,693         MSLP         NR4C         130,746         MSHP           270         MSLP         WR4U         26,676         MSLP         NR4C         130,746         MSHP           270         MSLP         WR4U         26,676         MSLP         KT4ZB         1,268,820         MSLP           4,312,011         M2         K8BI         10,575         MSLP         K3MDX         377,646         MSLP           4,312,011         M2         K9CT         6,871,476         M2         KBSJC         30,336         MSLP           964,665         M2         K8AZ         5,428,260         M2         KBSJC         30,336         MSLP           964,665         M2         WASRRA         239,616         M2         N4SVC         1,838,403         M2           73,062         MM         W8AJT         161,505         M2         W4UQ         882,108         M2           WØAIH         4,831,500         MM         W4RM         6,669,984         MM           WØAIH         4,831,500	N8YXR   115,326   MSLP   W4TA   172,881   MSHP   W3DQ	N8YXR   115,326   MSLP   W4TA   172,881   MSHP   W3DQ   1,035,066

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