



# THE FRANKFORD RADIO CLUB NEWSLETTER

*PROFICIENCY THROUGH COMPETITION*

## CALENDAR

### October 2006:

- 7-8 Oceania DX Contest, SSB
- 7-8 California QSO Party
- 10 FRC Main Meeting, Phila.**
- 10 Remy Meeting B**
- 14-15 Oceania DX Contest, CW
- 14-15 Pennsylvania QSO Party
- 19 T.I.T.S. Meeting, Noon**
- 21-22 Worked All Germany Contest
- 24 Remy Meeting B**
- 28-29 CQWW SSB DX Contest**

### November 2006:

- 4-5 ARRL Sweepstakes, CW
- 11-12 Worked All Europe, RTTY
- 11-12 OK/OM DX Contest, CW
- 14 FRC Main Meeting, Phila.**
- 14 Remy Meeting B**
- 16 T.I.T.S. Meeting, Noon**
- 18-19 ARRL Sweepstakes, SSB
- 28 Remy Meeting B**
- 28-29 CQWW CW DX Contest**

### December 2006:

- 1-3 ARRL 160 Meter Contest, CW
- 9-10 ARRL 10 Meter Contest
- 12 FRC Main Meeting, Phila.**
- 12 Remy Meeting B**
- 21 T.I.T.S. Meeting, Noon**
- 18-19 ARRL Sweepstakes, SSB
- 26 Remy Meeting B**
- 27 FRC Pizza Bash, Noon**

## CHANGES

### Email

WT3Q—wt3q@comcast.net

**Deadline for November issue:**  
Sunday, October 22, 2006

## President's Column

The results of the CQWW contest for 2005 have finally been officially released. As expected, the **FRC** finished second to the YCCC by about 22 million points. The YCCC had 74 more logs submitted than we did. You might think that we cannot compete. That we don't have enough members. Well, we have enough members if everyone gets on. The way I see it, if we had 10 more members on for both modes, we would have won. With that in mind, I challenge the club to find 10 more members to get on and submit logs this year. While this will not guarantee a win it will go a long way towards accomplishing that goal. When I joined the **FRC**, I was told that the goal is to win. This goal can still be accomplished if we support and encourage each other and spend time in the chair. Team **FRC** is as strong as ever.

**The CQWW Phone contest is the weekend of October 28<sup>th</sup> and 29<sup>th</sup>.** I hope to hear many of you. Support the **FRC** DXpeditions. If you are working assisted, spot them when you work them.

At the October 10<sup>th</sup> meeting at the college, Fred, K3ZO will present about the 3<sup>rd</sup> district QSL bureau and talk about contesting. This should be a great time and I encourage you to attend. This will be a good way to get psyched up for the contest.

73 – John – K3ZV

## Team Antigua, V26B

Team Antigua, V26B Will once again be in action for the Fall 2006 running of the CQWW SSB Contest Most of our operators will be arriving the week before and be active on any and all modes using their own calls listed below until a few days after the contest.

We will be Activating V26B for the 13th consecutive year this year and would Love to Thank Everyone for their continued support over the years and look forward to many more years of operating fun in the sun from our Island Paradise in the Caribbean Sea, Antigua.

The 2006 V26B Operator Lineup and QSL Routes:

V26B QSL Via KA2AEV	V26BZR QSL Via W2BZR
V26G QSL Via N2ED	V26MH QSL Via HB9OCR
V26OC QSL Via N3OC	V26R QSL Via KA2AEV

Also WX3B will be active, but his Antiguan callsign is unknown at this time.

## MEETINGS

### Main Meeting

The main monthly meeting of the **Frankford Radio Club** will be held Philadelphia on Tuesday, October 10 at 8 PM. Location is Rosenburger Hall, Room 102 at the University of the Sciences.



**October Program: Fred Laun, K3ZO, 3rd Call Area QSL Buro Manager**

**T.I.T.S. meeting**—The Trexlertown International Transmitting Society meets on Thursday, October 19 at 12:00 noon. Location is the Hometown Diner on Route 222 in Trexlertown..

**Rexy Meeting B**—The Rexy's **FRC Meeting B** meets about 8 PM on the second and fourth Tuesdays of each month.

### Be A Headhunter By Norm Fusaro, W3IZ

Do you want to beat YCCC? Do you really want it? Well the answer is in the numbers. **FRC** needs more logs and one way to get them is to get more members. **FRC** members should consider visiting local radio clubs and pitching the fun that can be had through radio sport – contesting.

Don't expect to find million point producers or even 100k producers right out of the gate. You're looking for the raw talent, operators who are looking for some excitement and is willing to put in several hours in front of the radio.

If you run a multi-op station then consider putting a small team of interested hams for a contest like PAQP or SS to show new contesters what it's like to run on a band or just S&P. Seeing the score climb, just like in a video game or pinball machine, adds to the excitement of operating and it is sure to provide a spark when the operator is feeling discouraged during slow periods.

Well-known contester Dean Straw, N6BV, has put together a great PowerPoint program that can be used when talking to local clubs about contesting. It is free to download from The ARRL multimedia library - <http://www.arrl.org/FandES/ead/materials/videos.html>

Whether your use Dean's program or make a program of your own here are a few recruiting tips:

1. Emphasize the FUN – After all if it's not fun then why do it?
2. ALL stations can participate in a contest. Sure, big guns are nice but small pistols can have fun and score points too. All efforts are noble ones.
3. Avoid war stories. They may be exciting to you but they can be boring to people who have never experienced the heat of battle during a contest.
4. Contesting is a great opportunity to earn your DXCC, WAS or other awards.
5. **FRC** contesters can earn awards and recognition from the club for their efforts as well as the personal satisfaction that comes from making a contribution to a team.

Be prepared to be an Elmer. If you are addressing a group that shows some interests but lacks the required operating privileges for HF contesting then be ready to offer some assistance to get these folks over the wall.

I have to say that I got into contesting because of an effort like this from Bud Trench, **AA3B**. Bud made a big push for the PA QSO Party to our club and I got hooked. Sure, he put the emphasis on fun, but in reality Bud really needed to work all the club members on all the bands to improve his score. Slick. Regardless of your motivation, try to get out and find some new blood to help the club.

2006 FRC Fund Drive

List of FRC Contributors as of September 20, 2006  
(contributors since the last list are in bold)

AA1K/AB1P/N3TTT	K300/K3000	W2RD/N2WYT			
AA2WN	K3CC	<b>KD2I</b>	N3ISH	W2CG	W3FVT
AA2U	K3CP/5	KD2RE - GA	N3KR	W2GD	W3GK
AA3B	K3CY	KQ2M	N3NA	W2LE	W3KV
AB2IO	K3FMQ	KQ3F	N3RD	W2OF	W3MA
AD3Z	K3GYS	N1RK	N3RS	W2OX	W3MF
K2AX	K3II	N2CQ	N3RW	W2REH	W3MM
K2DM	K3JGJ	N2ED	N3VV	W2TV	W3PA
K2FL	K3JJG	N2LT	N3YW	W2UDT	W3RAT
K2GN	K3MD	N2MR	N3ZA	W2UP	W3SOH
K2JF	K3ND	N2SS	N5RA - CA	W2VJN - OR	W4AA - FL
K2OWE	K3NZ	N2TK	NA2U	W2YC	WA2VYA
K2PS	K3PH	N2VW	NC1A	W2YR	WA3LRO - CA
K2QM	K3WW	<b>N3AD</b>	NK3N	W3AP	WA3RHW
K2QPN	K3YD	N3BB/5 - TX	NO2R	W3BG	WB4FDT
K2SB	K3ZV	N3BNA	NQ3N	W3BGN	WE3C
K2SG	K9RS	N3DL	NW3Y	W3CC	WK2W
K2UT	KC2NB	N3DXX	<b>NY3C</b>	W3EA	WQ3E
K2WJ	KC3WX	N3ED	NZ3O	W3EEE	
K3ATO	KD2HE	<b>N3GNW</b>	W1GD	W3FV	



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## FRC 2005-2006 SCORES

Rank	Call	CQWW SSB	CQWW CW	ARRL SSB	ARRL CW	Total
1	<b>W2GD</b>	10,414,404	11,915,625	5,227,000	5,012,000	32,569,029
2	<b>K2NG</b>	4,230,578	4,620,006	3,132,255	3,974,154	15,956,993
3	<b>AA1K</b>	4,450,752	4,133,904	2,727,270	4,115,904	15,427,830
4	<b>K3WW</b>	3,469,388	5,307,952	1,727,432	4,784,850	15,289,622
5	<b>AA3B</b>	2,217,530	7,175,560	1,317,912	3,767,814	14,478,816
6	<b>W3BGN</b>	3,459,880	3,646,512	2,523,552	2,503,328	12,133,272
7	<b>WE3C</b>	3,072,156	3,495,472	2,190,292	2,721,411	11,479,331
8	<b>N2NT</b>	1,252,461	5,502,681		4,668,048	11,423,190
9	<b>W2UP</b>	533,824	6,430,096		3,733,728	10,697,648
10	<b>N2TK</b>	3,873,251	1,861,155	4,676,088		10,410,494
11	<b>K3CT</b>	866,342	6,893,010		2,621,775	10,381,127
12	<b>W3FV</b>	3,873,251	2,305,758	1,095,146	2,688,356	9,962,511
13	<b>K3TEJ</b>	6,893,010			2,621,775	9,514,785
14	<b>N3RS</b>	1,615,984	3,694,896	1,538,820	2,385,502	9,235,202
15	<b>N2LT</b>	2,548,824	3,732,984		2,800,710	9,082,518
16	<b>K2TW</b>	3,873,251		3,132,255	1,251,664	8,257,170
17	<b>KF3B</b>	1,570,000	1,763,864	769,410	3,691,170	7,794,444
18	<b>NN3Q</b>	2,424,894	2,187,080	1,119,320	1,954,368	7,685,662
19	<b>KQ3F</b>	2,260,034	2,484,824	334,720	2,338,412	7,417,990
20	<b>K3MD</b>	1,548,024	1,773,967	527,688	3,348,324	7,198,003
21	<b>K3OO</b>	821,130	3,722,310	843,412	1,160,304	6,547,156
22	<b>W1GD</b>	1,851,088	1,605,368	1,150,545	1,836,000	6,443,001
23	<b>K3IPK</b>	866,342	1,847,448		3,679,230	6,393,020
24	<b>NA2U</b>	1,911,996	1,881,594	843,412	1,478,250	6,115,252
25	<b>N3AD</b>	2,104,396		1,914,120	2,083,486	6,102,002
26	<b>N3DXX</b>	1,052,198	2,764,493	1,080,000	1,041,743	5,938,434
27	<b>W8FJ</b>	1,943,584	1,847,448	769,410	1,192,751	5,753,193
28	<b>N3RD</b>	1,615,984	2,082,246	769,410	1,192,751	5,660,391
29	<b>NO2R</b>	1,901,520	1,560,404	748,992	1,251,664	5,462,580
30	<b>N3NA</b>	1,615,984	1,847,448	769,410	1,192,751	5,425,593
31	<b>K2QM</b>	298,720	3,816,285	574,500	729,504	5,419,009
32	<b>K3PH</b>	847,504	2,911,600	494,216	696,468	4,949,788
33	<b>N2RM</b>	1,870,264	1,265,744	1,585,842		4,721,850
34	<b>N2ED</b>	208,290	370,856	146,520	3,590,568	4,316,234
35	<b>K2DM</b>	1,687,558	365,140		2,166,328	4,219,026
36	<b>NE3F</b>	1,335,724	1,149,404	570,316	1,106,820	4,162,264
37	<b>K3ND</b>	1,242,585	1,246,000	614,790	1,041,570	4,144,945
38	<b>WA2VYA</b>	2,846,794	576,720	81,420	501,228	4,006,162
39	<b>N3ZA</b>	1,405,560	906,510	1,022,120	654,690	3,988,880
40	<b>K2PS</b>	1,526,608		811,898	1,551,312	3,889,818
41	<b>N3ED</b>		1,847,448	769,410	1,192,751	3,809,609
42	<b>K3ZV</b>	1,052,198	879,725	792,921	1,041,743	3,766,587
43	<b>K3NM</b>	2,508,380	1,205,028			3,713,408
44	<b>N3MX</b>	1,175,880	848,632	670,138	921,600	3,616,250
45	<b>W2RQ</b>	1,252,461	2,082,246			3,334,707
46	<b>W3PP</b>	801,888	1,021,672		1,471,968	3,295,528
47	<b>N2VW</b>	2,846,794		120,018		2,966,812
48	<b>N2SR</b>	1,615,984			1,192,751	2,808,735
49	<b>KN5H</b>	2,764,493				2,764,493
50	<b>N3BNA</b>	410,504	442,348	640,084	1,235,628	2,728,564



## FRC 2005-2006 SCORES

Rank	Call	CQWW SSB	CQWW CW	ARRL SSB	ARRL CW	Total
51	W3MF	1,695,008		988,432		2,683,440
52	KQ3V	1,536,078	24,476	1,095,147	12,284	2,667,985
53	W2YC	800,046	850,000	362,136	623,505	2,635,687
54	AA2WN	800,046	850,000	362,136	623,505	2,635,687
55	NM3E	1,536,078		1,095,146		2,631,224
56	NW3Y	801,888	1,021,672		735,984	2,559,544
57	W3CF	1,052,198	574,702	251,452	623,820	2,502,172
58	K3000	1,642,260		843,412		2,485,672
59	W2LE	1,000,125		390,600	1,088,328	2,479,053
60	W2CG	638,632	159,776	704,730	917,490	2,420,628
61	K9RS	1,615,984		769,410		2,385,394
62	W3GK	669,294	841,924		770,724	2,281,942
63	K3ATO	828,578	574,702	285,158	553,410	2,241,848
64	KD2HE	1,052,198			1,041,743	2,093,941
65	N2AA	2,082,246				2,082,246
66	K3II	1,732,684			224,028	1,956,712
67	W3BG	780,736	1,152,304			1,933,040
68	N1RK	825,520	116,928	608,328	372,240	1,923,016
69	W3CC	1,161,632		566,666	154,944	1,883,242
70	N3NR	1,052,198	144,796	420,282	260,144	1,877,420
71	W2RD	1,002,122	478,820		382,416	1,863,358
72	N3HUV		1,021,672		735,984	1,757,656
73	W7TDC	821,130		843,412		1,664,542
74	WA3LRO	1,615,984				1,615,984
75	W2YR	734,660	814,554		51,300	1,600,514
76	WK2W		843,030		735,984	1,579,014
77	KW3Z	801,888			735,984	1,537,872
78	N3FTI	1,536,078				1,536,078
79	N3KN	209,678	608,040		675,460	1,493,178
80	KS3F		574,702	285,158	553,410	1,413,270
81	WT3Q	410,504	884,696			1,295,200
82	N2NC	1,252,461				1,252,461
83	N3KR	298,000	372,880	209,328	348,936	1,229,144
84	K3YD		424,316	335,069	460,800	1,220,185
85	KD3TB	745,375	11,680	434,304		1,191,359
86	N2WKS		225,896	574,500	383,454	1,183,850
87	N3RJ		524,992	37,260	602,940	1,165,192
88	N3GNW	279,282	176,874	283,333	309,888	1,049,377
89	K2SB	410,552	632,744			1,043,296
90	K2SG	1,038,740				1,038,740
91	N2EA			574,500	400,920	975,420
92	N3OW	667,862		285,158		953,020
93	NT3V	667,862		285,158		953,020
94	AB2E	306,768	636,228			942,996
95	WB4FDT	801,888				801,888
96	W3RJ	237,476		183,534	333,102	754,112
97	K3FMQ	745,375				745,375
98	KD3RF	745,375				745,375
99	K2QPN	162,306	306,240	34,038	206,280	708,864
100	KQ2M	211,218		95,706	401,736	708,660

## FRC 2005-2006 SCORES

Rank	Call	CQWW SSB	CQWW CW	ARRL SSB	ARRL CW	Total
101	K2GN		645,392	35,250		680,642
102	KC2NB			680,370		680,370
103	W3IZ	546,976			110,000	656,976
104	ZP5AZL		640,084			640,084
105	W2REH	82,650	534,872			617,522
106	KE2VB		574,702			574,702
107	K2BMI			574,500		574,500
108	W2RDS			573,508		573,508
109	N2MR	366,318		206,424		572,742
110	W3AP	96,432	132,384	65,836	234,780	529,432
111	NY3C	525,162				525,162
112	K2UT	225,000		176,476	103,518	504,994
113	W2TV	502,364				502,364
114	K2OWE		226,048		257,826	483,874
115	W2EN				458,745	458,745
116	W3FVT	302,940		145,920		448,860
117	N2CQ	136,890			309,016	445,906
118	K3OX	442,348				442,348
120	KG2MY	312,390		114,958		427,348
121	WA3RHW	367,380	7,240			374,620
122	W3KV	90,440	245,740			336,180
123	N2AB			309,000		309,000
124	WA2C			286,754		286,754
125	N3ONM	246,784				246,784
126	N3RW	196,272	47,076			243,348
127	NQ3N			230,444		230,444
128	K2AX			229,916		229,916
129	N3YW			120,780	73,926	194,706
130	W2OF	174,724				174,724
131	W3PA			132,240		132,240
132	K3JGJ		76,528		52,122	128,650
133	K3BU		5,436		69,486	74,922
134	N2VM	6,016	38,412	11,766		56,194



### Less than 30 Days to CQWW SSB.....Don't Wait!

#### Work Wanted:

Experienced tower climber immediately available to perform antenna and tower maintenance.

Install/repair/remove antennas, replace feedlines and cabling, rotator servicing, guy wire renewal, new tower installations (guyed and self-supporting), and tower removal.

Reasonable hourly rates and scheduling that meets your needs.

Contact: John Crovelli W2GD

w2gd@hotmail.com

**New Reach Number: 908 391 5611 (Mobile)**

## FT 2000 Tests and Notes By George, W2VJN

N3RD was kind enough to lend me his new radio for testing. Some of these tests are routine to get the general flavor of the radio performance. Some are numbers contesters are interested in and may not show up in the magazines and some are comparisons with the Mark V Field, which has proven to be a fine radio for contesting.

### OBSERVATIONS

The FT 2000 is the same size as the FT 1000MP. Radio operation is intuitive, particularly for people familiar with the 1000MP. The analog meter is a welcome addition. The display is excellent. Construction is very rugged with a die cast chassis and lots of shielding. The radio handles very well, particularly on CW. It has front panel controls for the side tone and the key up delay. The CW side tone is excellent. Six meters works very well and there is a second antenna jack available which can be used for this. The band data jack drives a Top Ten decoder correctly and keys the amplifier antenna relay. The rear key jack can be set independently from the front jack. The internal keyer takes precedence over the second keying input. There is no noticeable IF hiss as the antenna noise covers it.

### SENSITIVITY Noise Floor, 500 Hz bandwidth, CW

<u>Front end selection</u>	<u>7040 kHz</u>	<u>28040 kHz</u>	<u>50125 kHz</u>
IPO	-126 dBm	-123	-122
AMP1	-136	-135	-134
AMP2	-141	-140	-140

Comment: Sensitivity is excellent and equal to the best radios available.

### SELECTIVITY 7040 kHz, CW NAR 500 Hz, 10 dB below AGC, HP8640B

At each point the level is raised 10 dB to measure bandwidth. This is tough on the radio, but it's realistic.

<u>Level</u>	<u>Bandwidth</u>	<u>FT1000MV (Pair of 500s)</u>
0	0 Hz	0Hz
-3	480	250
-6	500	410
-10	525	510
-20	580	570
-30	630	620
-40	720	670
-50	760	710
-60	900	760
-70	2250	1140



Comment: Selectivity is excellent and better than most DSP radios.

### DYNAMIC RANGE Tones from low noise crystal oscillators. Tone spacing = 5 kHz. Bandwidth = 500 Hz.

FT 2000	87 dB	3 kHz roofing filter selected.
FT 1000 MV	91 dB	Inrad roofing filter in place.

Comment: Two tone dynamic range is very good.

# FRC RADIO REVIEW

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## BLOCKING DYNAMIC RANGE

Weak signal set to 10 dB below the AGC threshold. Strong signal from a low noise crystal oscillator.

<u>Tone spacing</u>	<u>5 kHz</u>	<u>20 KHz</u>	
FT 2000	101 dB	109 dB	3 kHz roofing filter selected.
FT 1000 MV	123	150 dB	Inrad roofing filter in place.

Comment: Blocking dynamic range is not as high as other contest grade radios.

## PHASE NOISE

Low noise 7035 kHz crystal oscillator as the reference.

<u>Offset</u>	<u>FT 2000 dBC/Hz</u>	<u>FT000MV dBC/Hz</u>
5 kHz	-122	-120
10	-130	-130
20	-137	-140
50	-144	-147
100	-150	-154

## WIDEBAND TRANSMITTED NOISE

FT 2000 and FT 1000 MV measure the same.

Radio in transmit with key up.

Noise = -120 dBm/Hz, or -93dBm in a 500 Hz bandwidth. This requires an isolation of about 43 dB so as not to hear it in a second radio. This level of noise has proven to be of little trouble in a M/M station environment.

## POWER OUTPUT

100 Watts on all bands. Internal meter reads slightly lower.

## KEYING

<u>Menu Setting</u>	<u>Rise</u>	<u>Fall</u>	<u>Bandwidth at -60dBC</u>
6mS	2.5	2.5	0.7 kHz
4	2.0	2.0	1.1
2	1.0	1.0	1.8
1	0.5	0.5	3.4

Settings of 2 and 1 will give excessive key clicks.

Dots are about 4 mS shorter than the key down time. This is negligible at normal speeds to 50 WPM.

Key down to RF output is 16 mS. The amp ground signal is delayed 2 mS.

Comment: Keying is very good and key clicks are gone for a menu setting of 6mS. It would be even better if it really was 6 mS. (Note that the actual rise and fall times are somewhat shorter than the menu setting would imply.) The 14mS delay between amp ground and RF output should allow direct keying of QSK amplifiers without additional timing circuits.



# CONTESTING — TIPS, TECHNIQUES, RESOURCES

## SSB TALK POWER

White noise applied to the microphone input. Level set according to the operator's manual. Power out set to 100 Watts. Average power measured at 7050 kHz with a Bird Wattmeter.

<u>Setting</u>	<u>Normal Processor on.</u>		
FT 2000	17.5 W	21 W	Processor set to +10 dB Bw set to 4-26
FT 1000 MV	22.5	45	Compression set to +6 dB

Comment: The speech processor does not increase average power as well as the best contesting radios.

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### **Reprinted with permission from the August 23, 2006 Contest Rate Sheet**

John KOIO contributes a link to a very timely article: "Opinion: The Art of Checking Your Laptop as Luggage" from the folks at e-WEEK: <http://tinyurl.com/qzewp> There are good tips about TSA procedures and Pelican cases get high marks in the article.

If you have some extra bucks to spend on noise reduction, DX Engineering (<http://www.dxengineering.com/>) is introducing an improved, high intercept point version of the MFJ-1026 Noise Canceller. (Thanks, Mike W4EF)

This presentation by Jim N3BB about contest preparation and operation might be helpful to your contest club members. He says it might be "too extensive" but it sure is a complete look at the subject. It's a program he created several years ago, but is certainly still valid. The program is on the Central Texas DX & Contest Club (CTDXCC) Web site at <http://www.ctdxcc.org/n3bb/contestprep/>

Searching the archives of the very fine-business email reflectors at Contesting.com is fairly straightforward according to the following process:

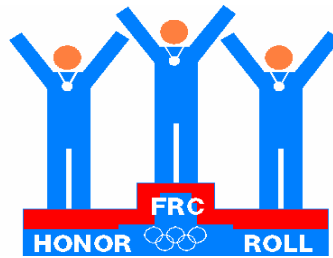
1. Go to: <http://www.contesting.com/>
2. On the left side navigation bar (under "Other Lists"), click on the link to the desired reflector, such as "TowerTalk".
3. Click on the link for "TowerTalk Archives" shown on the third line of text.
4. It will take you to the Archives, which are located here: <http://lists.contesting.com/pipermail/towertalk/>

From there, the Web site supports search by date, thread, or author. You can also use the Google search functions on a specific reflector archive by adding "site: <http://lists.contesting.com/pipermail/towertalk/%22>" to the search string, eliminating off-site messages from the search results.

<http://www.qsl.net/lz1jz>







**OCTOBER**      **CONDUCTED BY N2SS**      **2006**

**WARC BANDS**

<u>30 Meters</u>	<u>17 Meters</u>	<u>12 Meters</u>
<b>K2FL.. 335</b>	<b>K2FL...338</b>	<b>N2TK ..329</b>
N2TK .....332	N2TK ..... 337	K2FL..... 327
W3BGN ....319	N2LT ..... 332	N2LT..... 321
N2LT .....318	W3CF ..... 332	W3BGN... 315
W2YC .....303	W3BGN ... 331	W3CF ..... 303
N2SS .....291	N2SS ..... 322	N2SS..... 302
W8FJ .....291	W2UP ..... 312	W2YC ..... 275
K2PS .....284	W2YC ..... 306	K2PS..... 268
W2UP .....277	K2PS ..... 303	W2UP ..... 259
N3RD .....258	W8FJ ..... 294	W8FJ ..... 229
N2MM .....233	N2MM..... 268	N1RK..... 218
K3II .....232	N1RK ..... 253	KQ3F ..... 217
W2LE .....220	KQ3F ..... 252	K3II ..... 203
KQ3F .....195	K3II ..... 246	N3KN ..... 191
W2IRT .....183	W2LE ..... 231	W2LE ..... 191
AA2WN...174	W2IRT..... 209	W2YR ..... 187
W2RQ .....144	W2YR ..... 202	N2MM ..... 185
K3CT .....134	N3KN ..... 171	NA2U ..... 156
AB2E .....132	NA2U ..... 167	W2IRT ..... 105
W2YR .....131	W2RQ ..... 142	AB2E ..... 92
N3KN .....126	K3CT ..... 126	K3CT ..... 83
NA2U .....110	K3ND ..... 124	W2RQ ..... 62
N1RK .....107	AA2WN... 122	K3GYS ..... 30
K3ND .....85	AB2E ..... 108	N2VW ..... 28
N2VW .....76	K3GYS ..... 85	AA2WN..... 20
W3CF .....61	N2VW ..... 67	
K3GYS .....17		

K2FL and N2TK still duking it out for that elusive, undisputed **KING OF WARC**

**Rules for FRC Honor Roll Listings.**

Provide me with your total IOTAs worked, or countries (including deleted) worked for: WARC Bands, 160 Meters, Digital modes, Mobile, 6 Meters or your total for 80,40,20, 15 and 10 for 1.5K Club. Countries do not count until HQ Awards Committee takes action and announces a start date for a new country.

**160 Meters**

<b>W3BGN .....296</b>	K2PS ..... 106
AA1K .....290	W2CG ..... 95
WT3Q .....261	AB2E ..... 94
N2TK .....252	N2VW ..... 85
N2LT .....248	NA2U ..... 83
K3SX .....233	W2YR ..... 81
NO2R .....226	N2SS ..... 79
W8FJ .....216	W3CF ..... 77
W2UP .....200	W2IRT ..... 74
K3JIG .....200	K3NL ..... 70
W2YC .....186	K3CT ..... 63
N2MM .....182	KQ3F ..... 57
K3NM .....156	N1RK ..... 51
N3RS .....156	AA2WN ..... 50
K3II .....152	N3KN ..... 34
K2FL .....143	W2LE ..... 28
K3ND .....136	K3GYS ..... 12
W2RQ .....123	

W3BGN continues as the undisputed Top of Top Band.

**Digital**

<b>W2UP .....338</b>	KQ3F ..... 132
N2LT .....332	W2LE ..... 124
K2PS .....288	W2CG ..... 66
W2YC .....260	N2SS ..... 53
AA2WN .....187	N1RK ..... 39
N3KN .....181	K3GYS ..... 15
W2IRT .....141	W8FJ ..... 12
W2YR .....132	

**MOBILE DX**

<b>W2YC .....276</b>	K3GYS ..... 143
AA1K .....273	AA2WN ..... 131
N2SS .....234	W2YR ..... 28

**1.5K Club**

<b>K2FL..... 1715</b>	<b>K3ND .....1501</b>
<b>W3BGN .... 1705</b>	KQ3F .....1453
<b>N2TK ..... 1697</b>	W2CG .....1408
<b>N2LT ..... 1684</b>	W3CF .....1403
<b>W2UP ..... 1666</b>	AA2WN .....1379
<b>W2RQ ..... 1623</b>	NA2U .....1365
<b>N3RS ..... 1617</b>	N1RK .....1289
<b>W8FJ ..... 1600</b>	N2VW .....1270
<b>K3II ..... 1573</b>	K3CT .....1180
<b>W2YC ..... 1567</b>	W2LE .....1175
<b>N3RD ..... 1540</b>	W2YR .....1153
<b>NO2R ..... 1536</b>	N3KN .....1120
<b>N2SS ..... 1526</b>	K3NM .....1107
<b>K2PS ..... 1524</b>	AB2E .....1164
<b>N2MM ..... 1524</b>	W2IRT .....1014

**Islands On The Air**

<b>K2FL..... 1010</b>	W3CF .....253
N2SS ..... 838	W2YR .....244
W2YC ..... 639	W2IRT .....232
W8FJ ..... 604	K3GYS .....228
N1RK ..... 546	AB2E .....205
N2VW ..... 261	

**6 METER DXCC**

<b>N2LT .....106</b>	N3KN .....52
<b>K2PS ..... 101</b>	W2YR .....44
AA1K ..... 99	W2YC .....29
K3OO ..... 77	AA2WN .....15
K3SX ..... 75	N2TK .....12
N1RK ..... 57	K3GYS .....10
N2SS ..... 55	



# THE FRANKFORD RADIO CLUB NEWSLETTER

P. O. Box 431 Albury, PA 18011-0431



Affiliated Club

## The Frankford Radio Club

### Club Officers

President, **K3ZV**, John Lindmeier .....856-768-5348  
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Email: kq3f@comcast.net  
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**Repeater** - 2 meters, 147.27/147.87 Output PL tone, 114.8

**Home Page** - [www.gofrc.org](http://www.gofrc.org)

### Meetings

Meetings are held on the 2nd Tuesday of each month (Sep through May) at 8 PM at the University of the Sciences, Philadelphia. Summer meetings are held at member homes (one Saturday/ Sunday per month).

### Packet Cluster Contest/DX System

144.950 K3ZV  
145.530 AA1K  
145.530 K3WW  
145.570 WT3Q  
145.670 W3PP

### Telnet DX Cluster

[k2ut.gofrc.org](http://k2ut.gofrc.org)  
[k3ww.gofrc.org](http://k3ww.gofrc.org) 7300  
[kf3b-2.gofrc.org](http://kf3b-2.gofrc.org) 7300  
[w3frc.gofrc.org](http://w3frc.gofrc.org) 7300