The 2010 Most Wanted List

Kevin Kaufhold, W9GKA December, 2010

Introduction

The FFMA User's Group has been quite active in the identification of most wanted grids within the US. All amateurs are invited to join the user's group, which is at: http://groups.yahoo.com/group/FFMA/

In 2007, Bill, W5WVO, and Kevin, W9GKA, conducted an extensive survey to determine the rarest grids in the country on 6 meters. The Survey is publicly available at: http://www.arrl.org/files/file/FFMA/FFMA_Survey_2007.pdf

After the FFMA Most Wanted Survey was completed, many participants from the survey continued to report their new confirmed grids. It was decided to keep track of these people, and a FFMA Leader Board was initially developed out of the 2007 Survey as well as reports received from new stations that was not part of the Survey. Starting in May, 2008, the Leader Board was composed of any person who had at least 438 confirmed FFMA grids. The first Leader Board was announced and published at the 2008 CS VHF Conference in Wichita, Kansas. It merely consisted of a list of 12 people known to have confirmed 438 FFMA grids.

In August, 2008, the leader board was expanded to include any person at 400 + confirmed grids. Beginning in the summer of 2009, a summary of the Leader Board was posted at the ARRL FFMA web page. Starting in July, 2010, the Board was again expanded to include the number of FFMA grids that the ARRL had confirmed. Recent leader boards can be found at: http://www.arrl.org/ffma. The Leader Board is periodically updated for new girds worked and confirmed by the leaders.

More recent Leader Boards have grown considerably in scope. Currently, 34 operators have supplied their needed grids, with 32 of those stations updating their grid counts within the last 12 months. Another 8 stations not previously known to the FFMA user's group have been identified by the League as being at 400 grids confirmed, bringing the total number of leaders known to be over 400 grids to 42. This is a very select group, considering that there are over 600,000 amateur radio operators in the US alone.

Over the last two + years, there have been over 40 updates to the Leader Board. This keeps the information generated current and topical. Thus, the real value of the FFMA leader board lies in the wealth of available information and data. Not only are all leaders sorted by number of FFMA grids confirmed, but the needed grids are aggregated to develop a most wanted grid list of all leaders. This information is circulated to the FFMA user's group, who then targets the critically

needed grids for future grid DXpeditions. The most recent Leader Board also contains a FFMA map that is color-coded by percentage of leaders needing each grid.

The Leader Board has developed into a 6 meter domestic version of the DXCC most wanted country lists. It has proven to be quite successful, with the rarest grids being activated repeatedly. Once activated, the rare grids will typically drop down the most wanted list, being replaced by other grids that are in greater need of activation. A rotation effect has been noted, whereby rare grids will rotate in their "most wanted" status, depending upon the extent of recent activations.

In October, 2008, Lee Fish, W5FF received FFMA #1 on behalf of her deceased husband, Fred Fish, W5FF. Two more years went by before anyone came close to working all FFMA grids. By the summer of 2010, two more stations had achieved all 488 FFMA grids. In June, 2010, Pat, W5OZI worked Russ, KB8U in a DXpedition to CM79. Rick, K5UR, on July 30, 2010 worked VE9WGD in EN57. These two stalwarts of the 6 meters band were awarded FFMA #2 and #3, respectively.

Call	District	Location	Grid	Validated	Confirmed	Worked	Update
W5FF	5	NM	DM64	FFMA #1	488	488	Jun-95
W5OZI	5	TX	EM00	FFMA #2	488	488	Jul-10
K5UR	5	AR	EM35	FFMA #3	488	488	Jul-10

The complete list of all known leaders is in the Excel file, maintained at the FFMA user's group. The entire leader board is available as an Excel file, and can be downloaded at: http://groups.yahoo.com/group/FFMA/files/

The Most Needed Grids - December, 2010

Of the 488 FFMA grids, some 262 separate grids are needed by one or more of the 34 leaders who have supplied grids to the FFMA user's group. 226 grids are needed by no leaders, and probably should be considered commonly available. The 144 grids that are needed by 10% or more of the leaders are the less commonly available grids, and the truly rare grids could be considered the 48 grids needed by 30% or more of the leaders.

Sorted by deciles ...

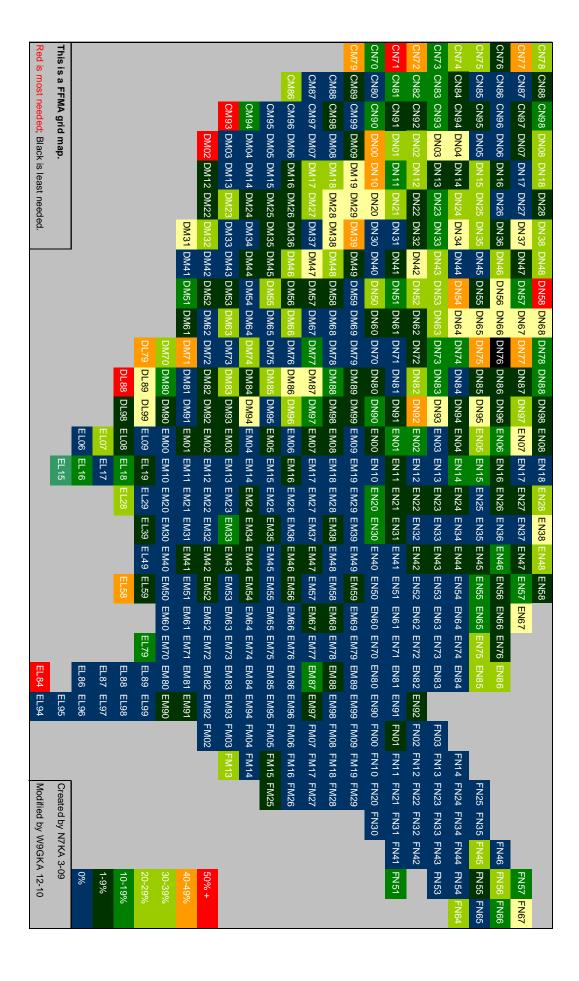
- 1 grid is currently needed by 60% + of the leaders (CM79)
- 5 grids are needed by 50 59% of the leaders
- 13 grids needed by 40 49% of leaders
- 29 girds needed by 30 39% of leaders
- 52 grids needed by 20 29% of leaders
- 44 grids needed by 10 20% of leaders
- 118 grids needed by 0 10% of leaders

- 226 grids needed by 0% of leaders.

The 144 grids needed by 10% or more of the leaders are listed below. The grid totals are as of December 13, 2010, and it is believed to be the last available data on "most wanted" grids for the year 2010. Please keep in mind however, that the ranking of grids will routinely, albeit incrementally, changes as the leaders confirm new grids, and as new leaders are added to the Leader Board.

Grid	Leaders	% Ldrs	Grid	Leaders	% Ldrs	Grid	Leaders	% Ldrs
CM93	23	68%	DM17	10	29%		7	21%
DL88	20	59%	DM46	10	29%	EN05	7	21%
DN58	20	59%	DN12	10	29%	EN28	7	21%
DM02	18	53%	DN24	10	29%	EN75	7	21%
EL84	18	53%	DN48	10	29%	CN70	6	18%
CN71	17	50%	EN85	10	29%	CN73	6	18%
CN77	16	47%	EN86	10	29%	CN81	6	18%
DL79	16	47%	FM13	10	29%	CN83	6	18%
DL79 DM71	16	47%	FN45	10	29%	CN90	6	18%
DN54	16	47 % 47%	CN74	9	29 <i>%</i> 26%	CN93	6	18%
DM34		41%	CN75		26%	CN98	6	
	15 15			9				18%
DN00	15	44%	CN78	9	26%	DM88	6	18%
CM79	14	41%	DM18	9	26%	DN23	6	18%
CN72	14	41%	DM23	9	26%	EL79	6	18%
DN10	14	41%	DM27	9	26%	EN01	6	18%
DN75	14	41%	DM70	9	26%	EN02	6	18%
DN77	14	41%	DM85	9	26%	EN15	6	18%
DN92	14	41%	DM96	9	26%	EN46	6	18%
EL58	14	41%	DN02	9	26%	FN57	6	18%
DL99	13	38%	DN08	9	26%	DM51	5	15%
DM47	13	38%	DN15	9	26%	DM77	5	15%
DN03	13	38%	DN25	9	26%	DM80	5	15%
DN20	13	38%	DN38	9	26%	DM97	5	15%
DN34	13	38%	DN46	9	26%	DN11	5	15%
DN42	13	38%	EL28	9	26%	DN33	5	15%
DM19	12	35%	En48	9	26%	DN57	5	15%
DM38	12	35%	FN64	9	26%	DN73	5	15%
DM86	12	35%	DM55	8	24%	DN78	5	15%
DM94	12	35%	DM74	8	24%	DN88	5	15%
DN04	12	35%	DN01	8	24%	DN90	5	15%
DN56	12	35%	DN18	8	24%	EL16	5	15%
DN64	12	35%	DN43	8	24%	EN06	5	15%
DN67	12	35%	DN50	8	24%	EN14	5	15%
DN68	12	35%	DN52	8	24%	EN20	5	15%
EN07	12	35%	DN53	8	24%	FN51	5	15%
EN67	12	35%	DN63	8	24%	FN66	5	15%
FN67	12	35%	DN97	8	24%	CM94	4	12%
DL89	11	32%	EL15	8	24%	CN82	4	12%
DM28	11	32%	FN56	8	24%	DN51	4	12%
DM29	11	32%	CM86	7	21%	DN74	4	12%
DM31	11	32%	DM32	7	21%	DN83	4	12%
DM87	11	32% 32%	DM48	7	21%	EL18	4	12%
DN37			DM63					
	11	32%		7	21%	EM33	4	12%
DN65	11	32%	DM66	7	21%	EM87	4	12%
DN66	11	32%	DM83	7	21%	EN30	4	12%
DN93	11	32%	DN21	7	21%	EN55	4	12%
DN95	11	32%	DN35	7	21%	EN57	4	12%
EN38	11	32%	DN82	7	21%	EN65	4	12%

A grid map of the USA has been color-coded to reflect the needed grids of the leaders. The color coding is done by deciles. The map is current, as of December 13, 2010. Please note that the map and the most needed grid list, above, is regularly updated to reflect the current needs of the leaders. Please refer to the latest Leader Board which is maintained at the FFMA User's Group, for the most up-to-date information.

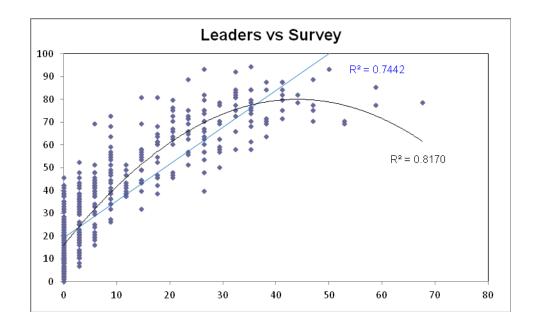


Comparison to the 2007 Grid Survey

The 2007 Survey was composed of responses from 88 stations, all of whom held VUCC on 6 meters. It utilized extensive statistical processes designed to produce a statistically significant survey result from the 1,500 + VUCC population on 6 meters. The Survey succeeded in these objectives, but was a huge undertaking that provided a static, one-time snapshot of needed grids by VUCC certificate holders.

The Leader Board has many advantages over the prior Survey. It is regularly updated and focuses on those stations that are most intensely interested in achieving the FFMA award. The needed grid list for the leaders is closer to being "real time" in its output, changing as new grids are regularly activated. It focuses on the very tough and rare grids missing by the leaders, thereby identifying the commonly available grids out of those 488 grids not generally needed among the leaders. It has proved to be far simpler in the development and maintenance of the needed grid list. With 34 responses and growing, however, the Leader Board is becoming a sizable percentage of the original responses of the 2007 Survey. Further, the quality of responses has been as good, or better, than the original Survey, since the respondents have every reason to be as accurate as possible in providing data to the Leader Board.

Additionally, the correlation between the two methods is quite high. The following scatter-gram demonstrates a very good explanatory power (R2) between the Leader Board list and the 2007 Survey, with grids needed by the higher (lower) percentages of leaders, also being needed by higher (lower) percentages of the original Survey participants.



Regression output on the linear trend-line of the above graph is as follows. Note the high R2, high adjusted R2, very high p-values, and very significant t stats. Even a simple correlation between the two data series demonstrates a close fit, at 0.8627.

SUMMARY OUTPUT

Regression Statistics					
Multiple R	0.862667				
R Square	0.744194				
Adjusted R					
Square	0.743668				
Standard Error	12.55725				
Observations	488				

ANOVA

					Significance
	df	SS	MS	F	F
Regression	1	222946.5	222946.5	1413.878	5.6E-146
Residual	486	76634.65	157.6845		
Total	487	299581.2			

		Upper				
	Coefficients	Error	t Stat	P-value	Lower 95%	95%
Intercept	19.20487	0.691089	27.78927	1.9E-102	17.84698	20.56276
X Variable 1	1.61963	0.043073	37.60156	5.6E-146	1.534996	1.704263

<u>Observations.</u> The FFMA leaders therefore need the same or very similar girds as the respondents in the 2007 Survey. It is just that the leaders need far fewer girds than the Survey participants. Indeed, the 32 leaders only need 262 of 488 FFMA grids, while only one grid – FM19 – was not needed by any of the Survey respondents. Thus, what is rare to the leaders was also rare in the 2007 Survey.

Another survey of the general VUCC population is likely unnecessary, with the Leader Board readily identifying the truly rare grids in the US. Just focusing on the leaders will very probably determine the most needed grids of both groups (leaders and VUCC certificate holders). The 2007 Survey, along with its statistical standards, was necessary at the time, since we did not have any knowledge of a sub-population of stations missing only the very rare grids. But now that such a sub-population has been identified and are being tracked via updates from the sub-population itself, the identification of the "most wanted" grids becomes substantially easier. Going forward in time, anyone desiring information on the most rare as well as the more common grids only need to review the most wanted list of the FFMA leaders.