



Wideband to Narrow Band . . . Play it one more time Sam!

By

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Outline

- Narrowbanding Basics
- Narrowbanding Deadlines
- Public Notices and Waivers
- Modifying Licenses to Reflect Narrowbanding

138 Days and Counting

(as of August 15, 2012)

Narrowbanding Basics

- Who is required to Narrowband?
 - All Public Safety and Industrial/Business licenses in the 150-174 MHz (VHF) and ~~421-512~~ MHz (UHF) bands
421-470 MHz
- What is required?
 - By January 1, 2013, Licensees must migrate their systems from 25 KHz (wideband) to 12.5 KHz (narrowband) channel bandwidth or a technology that achieves equivalent efficiency

Benefits of Narrowbanding

- Bottom line (Not from the FCC)
 - **It packs more communications in less space and therefore makes the spectrum more efficient!**

Narrowbanding Deadlines

- **All** licensees must complete narrowbanding to 12.5 KHz by January 1, 2013
 - FCC will also no longer allow manufacture or importation of equipment that includes a 25 KHz mode
- Some interim requirements are already in effect
 - 12.5 KHz operation required for **all** new VHF/UHF systems or expansion of existing systems
 - FCC will not certify new equipment that includes a 25 KHz mode

Why Meeting the Deadline is Important

- After Jan 1, 2013, FCC interference rules will not protect non-compliant WB systems from harmful interference
- Systems that fail to NB by the deadline could create interference or interoperability problems for systems that have converted to NB
- As of February 1, all national freq coordinators are coordinating assuming narrow band

License Modifications

- Licensees should modify their licenses to add a narrowband emission designator prior to commencing narrowband operations
 - Licensees may maintain both narrowband and wideband designators on their licenses while they are transitioning their systems
- Once the narrowband transition is complete, licensees should modify their licenses by removing the wideband emission designators
- These actions can be completed online using ULS

Frequency Coordination

- Frequency coordination is NOT required for addition of narrowband emissions designator or removal of wide band emissions designator, provided no other changes are being made
- Frequency coordination is required when narrowbanding is combined with other modifications that alter a stations footprint.

Question:

What happens to the licenses with only wideband designators on 1/1/2013?

Termination Pending
Status?

Public Notice DA 11-1189

- Reaffirmed the deadlines
- Gave detailed instructions regarding obtaining **Waivers**
 - “High level of scrutiny”
 - “unique or unusual factual circumstances”
 - “Show the grant of the waiver would be in the public interest
 - Not granting the waiver would be “unduly burdensome or contrary to the public interest”
- Explain how you have “worked diligently and in good faith to narrowband” your systems expeditiously

Public Notice DA 11-1189 (cont.)

- If you are going to do a waiver request – first hire a good communications lawyer . . . Then go over the 10 bullet points recommended by the public notice
 - Steps already taken
 - Details on the system in question including complexity, current status, other improvement or migration plans
 - Funding sources
 - Scheduling details
 - How you intend to minimize the negative impact of those co-channel and adjacent channel licensees you might interfere with

Whats happened recently?

- Public Notice DA 12-12 – Jan 5, 2012
 - Reaffirmed that the FCC was really **REALLY** serious
- Public Notice DA 12-246 – Feb 21, 2012
 - Additional guidance, instructions and clarifications on what is required to get a waiver
- Order RM9332 – **August 10**, 2012
 - T-Band does **NOT** have to narrow band

Agencies that have Applied for Waivers (40)

- St. Louis, Mo
- Univeristy of Iowa Hospitals and Clinics
- Hillsborough Township, NJ
- County of Hawaii, HI
- Pittsylvania County, Va
- Winnebago Co. Sheriff's Off
- South Lake Tahoe
- Rockland Co., NY
- Mercer Co., NJ
- Monterey Co, CA
- Outagamie Co, Wi
- State of Maine
- Ocean Co., NJ
- NYC Transit
- Blair Co, PA
- Spokane, WA
- Iowa DPS
- Lancaster Co, PA
- Peoria Co. ETSB
- Currituck Co, NC
- Iowa Dept. of Corrections

Agencies that have Applied for Waivers (cont)

- Avista Corp.
- Pennsylvania State Police
- Delta Airlines
- Puget Sound Energy
- Dane County, WI
- Pima County, AZ
- Northumberland Co., PA, DPS
- De Kalb Co School District
- King County Dept. of Transportation
- St. Johns Co, FL
- Berks Co., PA
- Pierce Co, WA
- Onslow Co, NC
- Indiana Co, PA
- State of Oregon
- New York City Transit Authority
- Airzona Water Company
- First Student, Inc.
- Bucks Co., PA

Agencies With Waivers Granted (9)

- St. Louis, Mo
- Delta Airlines
- Avista Corp.
- Arizona Water Company
- First Student, Inc.
- Pittsylvania Co, VA
- Univeristy of Iowa Hospitals and Clinics
- Monterey Co, CA
- New York City Transit Authority

Agencies With Waivers Denied (1)

- South Lake Tahoe

90 Handhelds and 50 mobile units covered under 4 licenses.

Quote from DA 12-1297:

“Lake Tahoe states that . . . will conduct a budgetary analysis in July 2014 to determine whether sufficient funding exists to include narrowbanding in the capital improvements for the 2014-15 fiscal year”

Docket WT 97-87

February 21, 2012

- Waiver **conditionally** granted to St Louis County and 3 other cooperating agencies
 - Multi-county **interoperable** 800 MHz system
 - Sales Tax incentives in place to pay for it
 - Upon completing will transition away from VHF/UHF system that is the subject of the waiver
 - New system under planning since 2007
 - New system will not be complete in time
 - 274 frequencies held by 27 licensees

Docket WT 97-87

Conditions

- Each of the 27 licensees must file a letter attached to their licenses in the FCC's ULS within 90 days stating:
 - Consent to the terms of the waiver grant
 - Will transition its operations to the new system
 - Will relinquish any VHF/UHF spectrum covered under the waiver
 - Licenses who don't agree to this must meet the narrow band deadline.

Docket WT 97-87

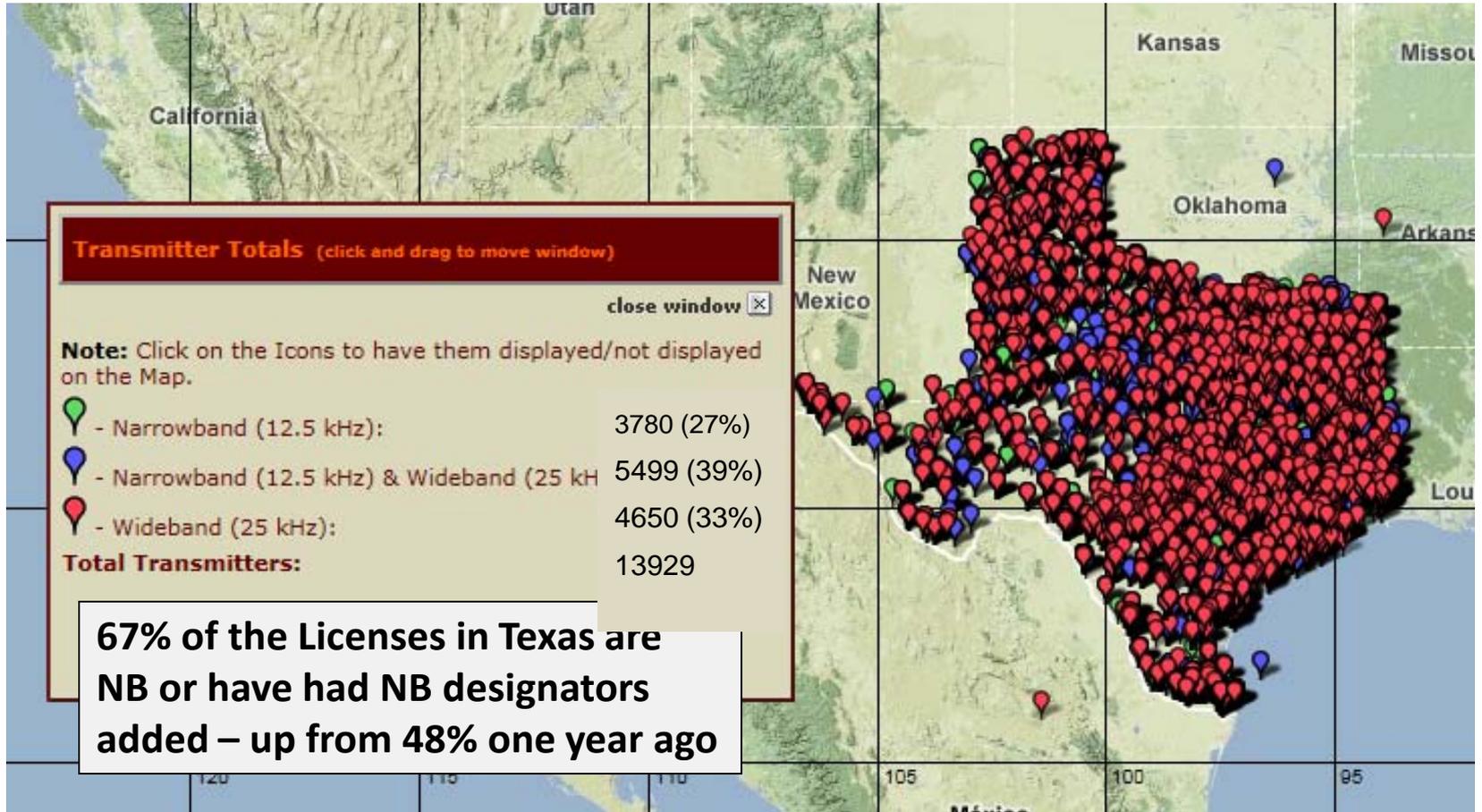
The Main Condition!

- The complete list of frequencies and licenses to be covered by the waiver must be identified and presented in a list to the FCC within 6 months.

• Or the Waiver Fails

- The FCC ended the waiver document with a note that other waiver requesters should pay attention to how **THIS** one was done!

The Goal: To turn Texas Blue & Eventually all Green!



Status as of August 10, 2012

www.publicsafetytools.info

The screenshot shows the homepage of the Public Safety Technical Assistance Tools website. At the top left is the OEC/ICTAP logo. The main header reads "Public Safety Technical Assistance Tools" and "Welcome to the Public Safety Technical Assistance Tools Website". A navigation bar contains links for Home, FMT, NLSTs, NIFOG, NECP Goal 2, Training, FCC Source Data, Tech Tools Help, and SWIC Tools. The main content area features eight tool tiles arranged in two rows of four. Each tile includes a thumbnail image and a text label with a blue underline. A red arrow points from a "Click here" box at the bottom left to the "Narrowband License Status Tools" tile.

Public Safety Technical Assistance Tools
Welcome to the Public Safety Technical Assistance Tools Website

Home FMT NLSTs NIFOG NECP Goal 2 Training FCC Source Data Tech Tools Help SWIC Tools

National Interoperability Field Operations Guide (NIFOG) and NIFOG Request Form

Response Level Communications Tool (NECP Goal 2)

Communication Assets Survey & Mapping (CASM)

OEC Guidance Documents

Technical Assistance Catalog & Request

Narrowband License Status Tools

Frequency Mapping Tool (FMT)

Public Safety Tools Available Training

Click here

Select your State and County

Total Transmitters: 352 [Display Transmitter Totals](#)

Location:

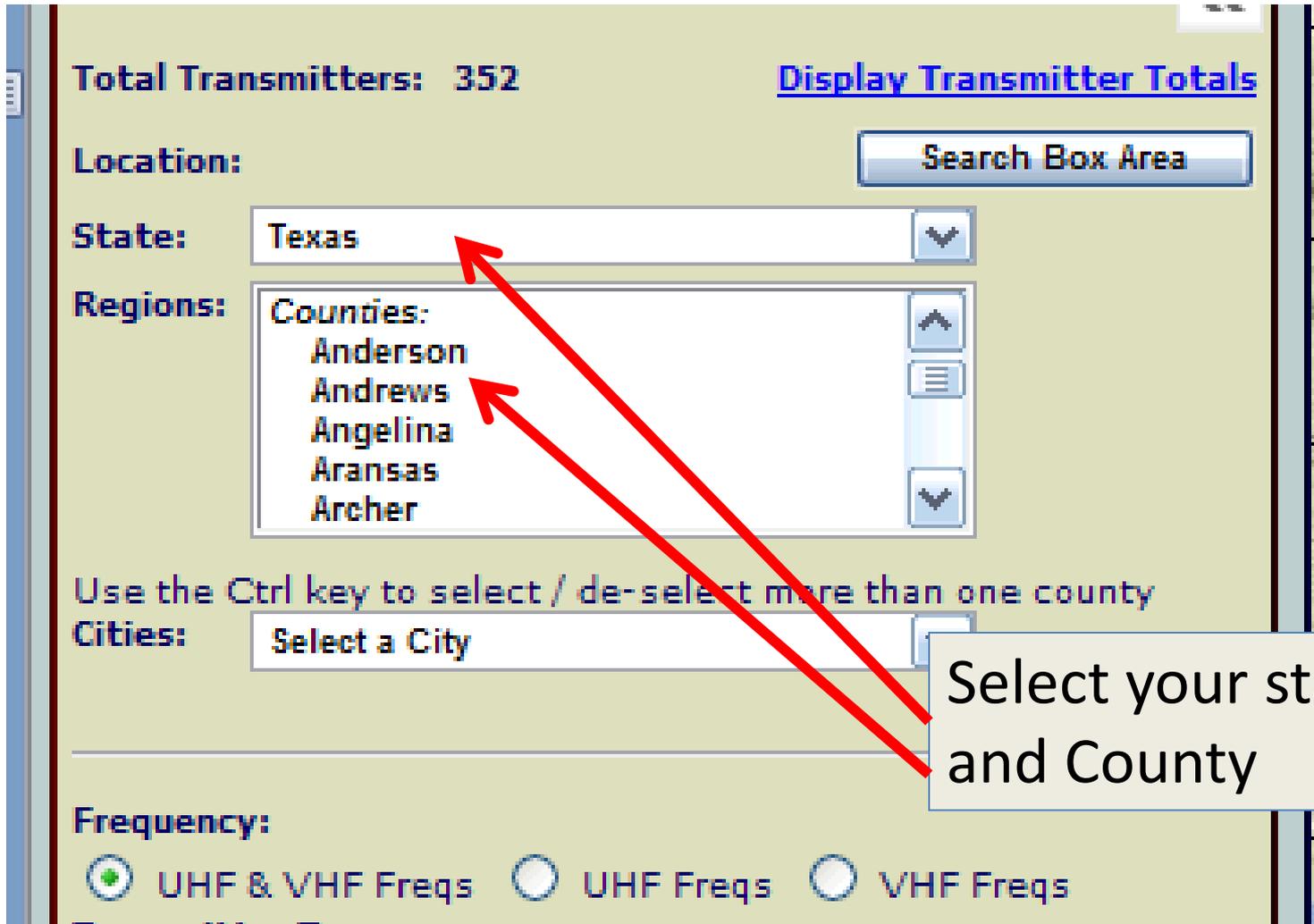
State: ▼

Regions: ▲ ▼

Use the Ctrl key to select / de-select more than one county

Cities:

Frequency: UHF & VHF Freqs UHF Freqs VHF Freqs



Select your state and County

Or Select Your CoG

Total Transmitters: 489 [Display Transmitter Totals](#)

Location:

State:

Regions:

- RGN-Region 3
- RGN-Region 4
- RGN-Region 5
- RGN-Region 6
- RGN-Region 7**
- RGN-Region 8

Or your CoG (WCTCoG)

Use the Ctrl key to select / de-select more than one county

You can also select a Call Sign or a FRN

Analysis Spreadsheets

- WB/NB Assistance Tool can generate a number spread sheets
 - Results by Region (or CoG)
 - Results by County
 - List of all licensed transmitters and their status
 - List of all Narrow Band licensed transmitters
 - List of all Wide Band Licensed transmitters

Rio Grande CoG Detailed Analysis

1	REGION	COUNTY	FRN	CALL SIGN	ENTITY NAME	Freq	NARROW WIDE	NARROW EMISSION	WIDE EM
227	Region 8	EL PASO	0009114372	KNGG918	West Valley Fire Department (L) - BUSINES	155.0850	wideband	Not Specified	20K0F3E
228	Region 8	EL PASO	0009114372	KNGG918	West Valley Fire Department (L) - BUSINES	155.0850	wideband	Not Specified	20K0F3E
229	Region 8	EL PASO	0009254475	WNMI637	SOCORRO, CITY OF (L)	153.8150	wideband	Not Specified	20K0F3E
230	Region 8	EL PASO	0009254475	WNMI637	SOCORRO, CITY OF (L)	155.8800	wideband	Not Specified	20K0F3E
231	Region 8	EL PASO	0009254475	WNMI637	SOCORRO, CITY OF (L)	155.8800	wideband	Not Specified	20K0F3E
232	Region 8	EL PASO	0009264607	WQAV261	HORIZON CITY, TOWN OF (L) - EWA 210119	155.4300	narrow/wide band	11K0F3E	20K0F3E
233	Region 8	EL PASO	0009264607	WQAV261	HORIZON CITY, TOWN OF (L) - EWA 210119	155.7975	narrowband	11K0F3E	Not Specifi
234	Region 8	EL PASO	0013740527	WPIC777	THOMASON HOSPITAL (L)	152.0075	wideband	Not Specified	20K0F3E
235	Region 8	EL PASO	0013840723	KVP508	ANTHONY, TOWN OF (L) - Anthony Police	155.3700	wideband	Not Specified	20K0F3E
236	Region 8	EL PASO	0013840723	KVP508	ANTHONY, TOWN OF (L) - Anthony Police	155.5800	wideband	Not Specified	20K0F3E
237	Region 8	EL PASO	0014239230	KRU986	TENET HOSPITALS LTD (L) - BUSINESS RADIO	155.3400	wideband	Not Specified	20K0F3E
238	Region 8	EL PASO	0014239230	WZZ287	TENET HOSPITALS LTD (L)	163.2500	wideband	Not Specified	20K0F3E
239	Region 8	EL PASO	0014239230	WZZ287	TENET HOSPITALS LTD (L)	163.2500	wideband	Not Specified	20K0F3E
240	Region 8	EL PASO	0014239230	WZZ287	TENET HOSPITALS LTD (L)	453.0250	wideband	Not Specified	20K0F3E
241	Region 8	EL PASO	0019285907	WQLH798	SOCORRO FIRE DEPARTMENT (L) - EWA 209	151.2200	narrow/wide band	11K2F3E	20K0F3E
242	Region 8	EL PASO	0019285907	WQLH798	SOCORRO FIRE DEPARTMENT (L) - EWA 209	156.1800	narrow/wide band	11K2F3E	20K0F3E
243	Region 8	HUDSPETH	0001664341	WNPK349	HUDSPETH, COUNTY OF (L)	153.9200	wideband	Not Specified	20K0F3E
244	Region 8	HUDSPETH	0001666593	WPCV706	HUDSPETH, COUNTY OF (L) - UNIVERSAL LIC	155.3700	wideband	Not Specified	20K0F3E
245	Region 8	HUDSPETH	0001666593	WPCV706	HUDSPETH, COUNTY OF (L) - UNIVERSAL LIC	155.3700	wideband	Not Specified	20K0F3E
246	Region 8	HUDSPETH	0001666593	WPCV706	HUDSPETH, COUNTY OF (L) - UNIVERSAL LIC	155.6550	wideband	Not Specified	20K0F3E
247	Region 8	HUDSPETH	0001666593	WPCV706	HUDSPETH, COUNTY OF (L) - UNIVERSAL LIC	155.6550	wideband	Not Specified	20K0F3E
248	Region 8	HUDSPETH	0001672310	WPMZ998	TEXAS, STATE OF; TEXAS DEPT. OF TRANSP	151.0550	wideband	Not Specified	20K0F3E
249	Region 8	HUDSPETH	0001672310	WPMZ998	TEXAS, STATE OF; TEXAS DEPT. OF TRANSP	156.1350	wideband	Not Specified	20K0F3E
250	Region 8	HUDSPETH	0001672310	WQKY920	TEXAS, STATE OF; TEXAS DEPT. OF TRANSP	151.1225	narrowband	11K2F9W	Not Specifi
251	Region 8	HUDSPETH	0001672419	WXT666	Texas, State of (DPS) (L) - Texas Departme	155.4600	narrow/wide band	11K2F3E,8K10F1D,8K	20K0F1E,20

N/W Band Detailed Analysis

- County
- FRN
- FCC Call Sign
- Agency Name
- Frequency
- NB Emission
- WB Emission
- LOC/Ant #
- Location City
- Address of Site
- License Expiration Date
- Contact Information
(Including phone #s)
- Licensee Email
- Transmitter Power
- Latitude and Longitude

State Wide Narrow Band Conversion Percentages

		Narrow	Wide	Total	3/23 %	Now
1	PRPC	622	441	1063	41%	59%
2	SPAG	519	98	617	38%	84%
3	NRPC	236	120	356	40%	66%
4	NCTCOG	1391	508	1899	40%	73%
5	ATCOG	414	96	510	47%	81%
6	ETCOG	650	186	836	42%	78%
7	WCTCOG	425	54	479	77%	89%
8	RGCOG	258	120	378	51%	68%
9	PBRPC	297	121	418	56%	71%
10	CVCOG	158	63	221	53%	71%
11	HOTCOG	373	81	454	56%	82%
12	CAPCOG	409	362	771	26%	53%
13	BVCOG	118	83	201	47%	59%

As of 8/10/2012

State Wide Narrow Band Conversion Percentages

		Narrow	Wide	Total	3/23 %	NOW
14	DETCOG	504	141	645	44%	78%
15	SETRPC	140	202	342	23%	41%
16	H-GAC	922	817	1739	26%	53%
17	GCRPC	97	108	205	36%	47%
18	AACOG	538	309	847	53%	64%
19	SDTC	151	27	178	44%	85%
20	CBCOG	294	171	465	36%	63%
21	LRGVDC	205	252	457	32%	45%
22	TCOG	149	17	166	52%	90%
23	CTCOG	215	148	363	41%	59%
24	MRGDC	194	123	317	49%	61%
	Total	9279	4650	13929	41%	67%

As of 8/10/2012



How does your CoG Rank?

Just when you thought it would be safe to get back into the water . . .

112TH CONGRESS
1ST SESSION

H. R. 3430

To direct the Federal Communications Commission to extend the deadline for private land mobile radio licenses to migrate to the band to . . .

DOA

IN THE HOUSE OF REPRESENTATIVES

NOVEMBER 15, 2011

Mr. ROTHMAN of New Jersey introduced the following bill; which was referred to the Committee on Energy and Commerce

Questions

?

138 Days and Counting

(as of August 15, 2012)