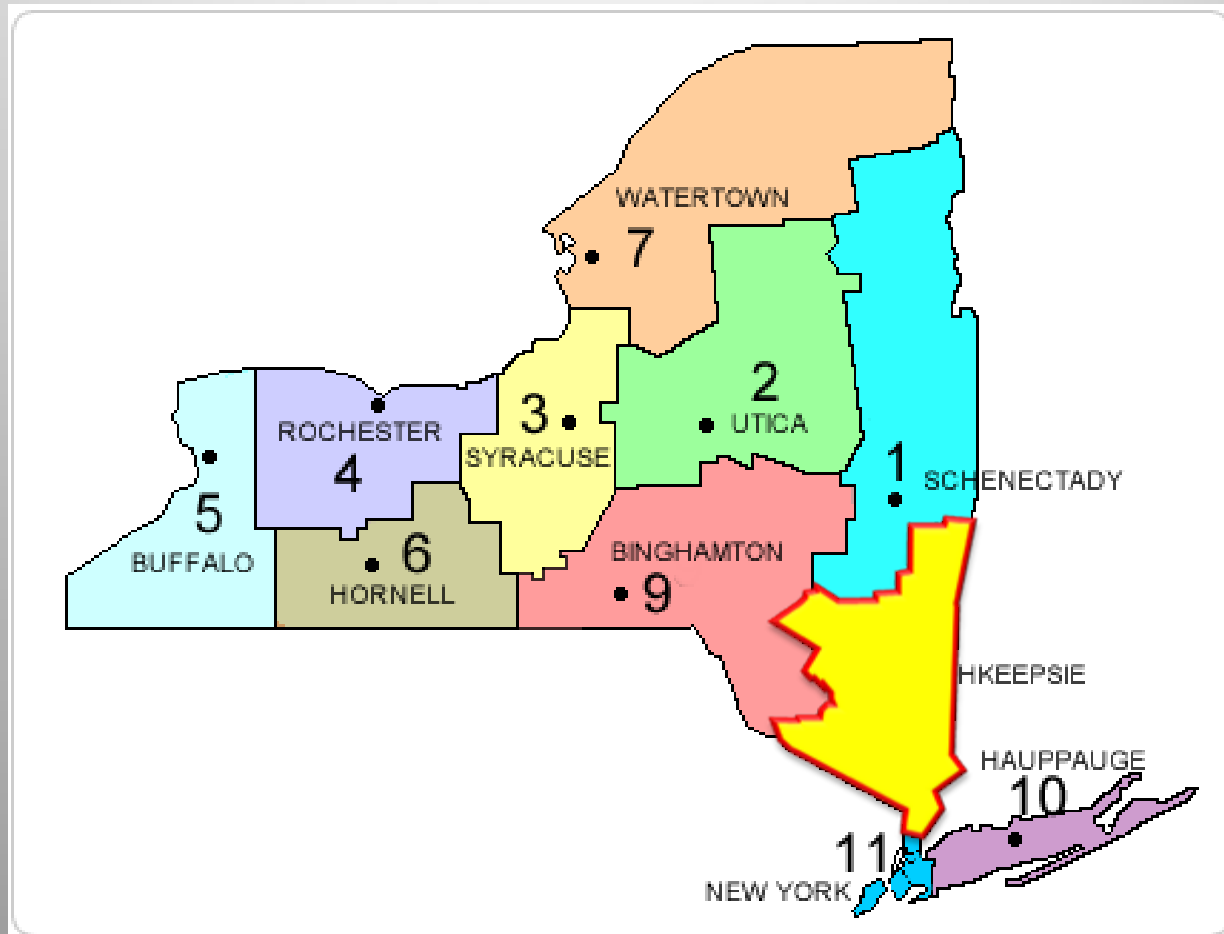


ULSTER COUNTY -MPO  
EXECUTIVE COMMITTEE MEETING  
6/24/14

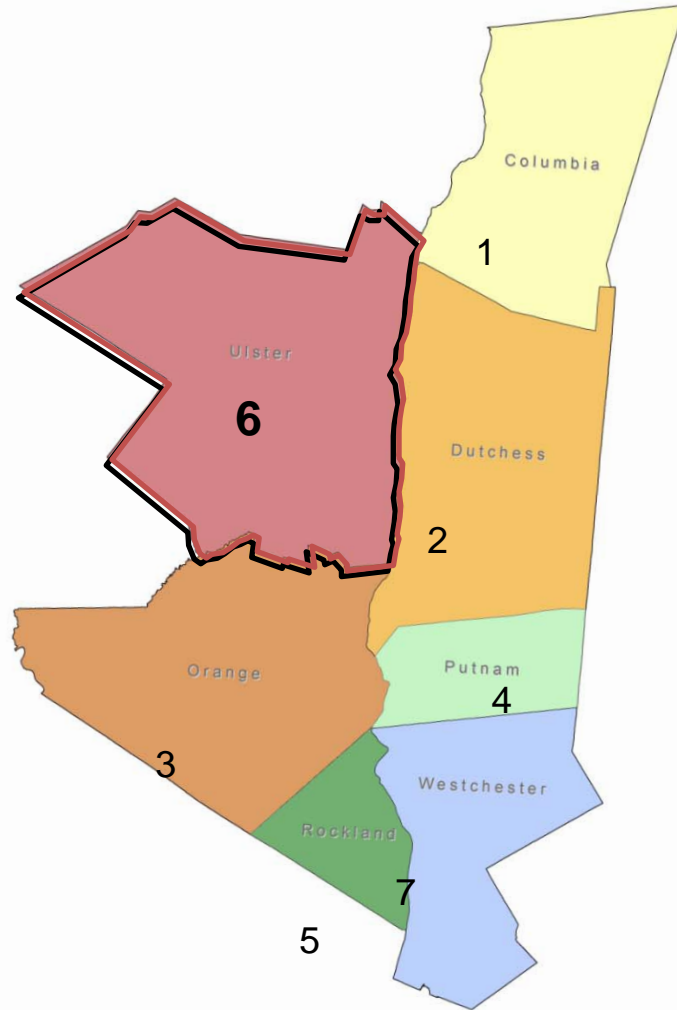
**NYSDOT- REGION 8  
BRIDGE MANAGEMENT**

ERIC FOSTER, P.E  
Regional Bridge Management Engineer

# NYS DOT REGIONAL OFFICES



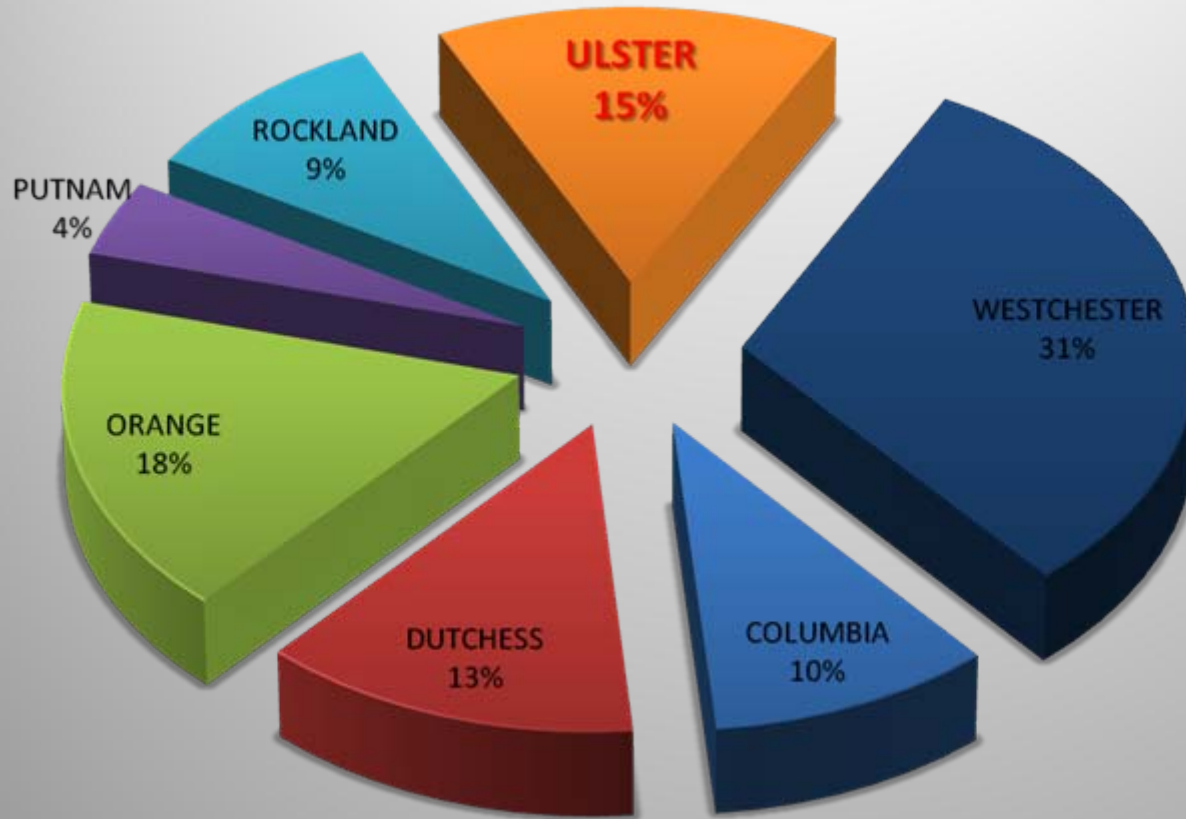
# REGION 8 - COUNTIES



## BRIDGE INVENTORY

County	CURRENT INVENTORY	RR BRIDGES	PEDESTRIAN BRIDGES	CLOSED BRIDGES (long term)	NOT INCLUDED IN ACTIVE INVENTORY	ACTIVE HIGHWAY BRIDGES
Columbia	266	12	0	15	27	<b>239</b>
Dutchess	356	3	7	6	16	340
Orange	500	32	3	8	43	<b>457</b>
Putnam	119	8	3	4	15	<b>104</b>
Rockland	254	9	2	3	14	<b>240</b>
<b>Ulster</b>	<b>410</b>	<b>10</b>	<b>4</b>	<b>12</b>	<b>26</b>	<b>384</b>
Westchester	892	45	58	14	117	<b>775</b>
<b>TOTAL</b>	<b>2797</b>	<b>119</b>	<b>77</b>	<b>62</b>	<b>258</b>	<b>2539</b>

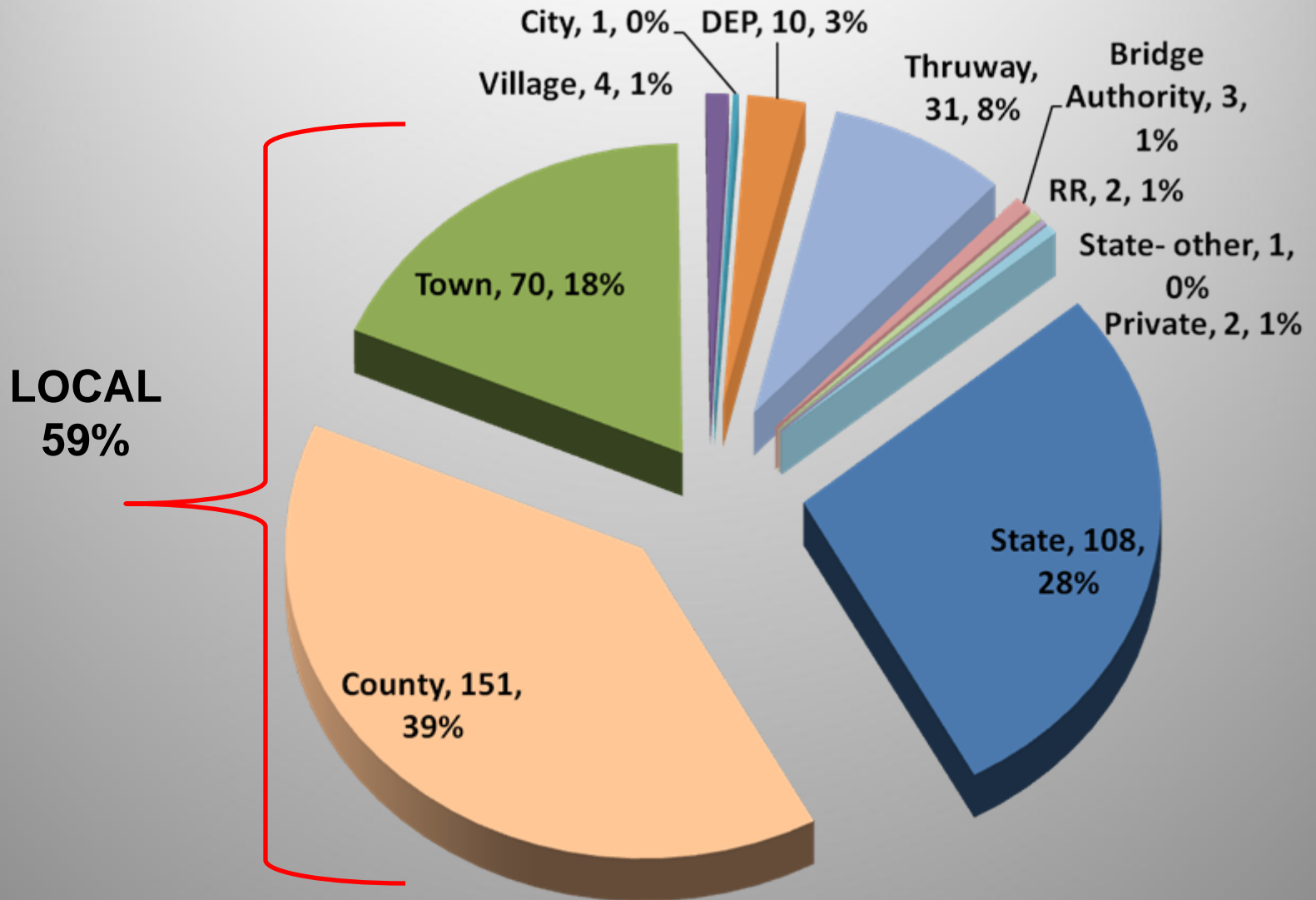
# BRIDGES BY COUNTY



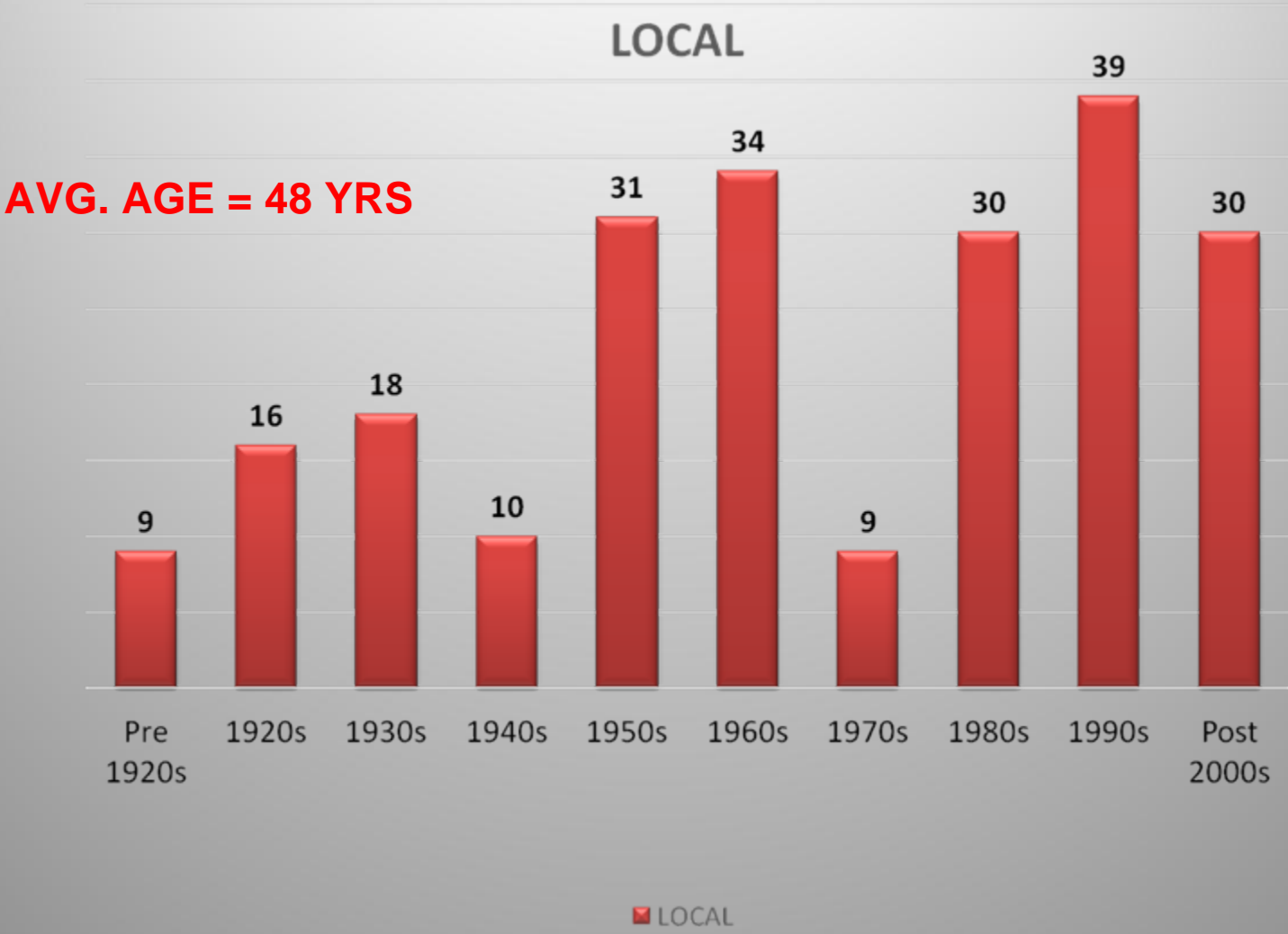
Columbia	239
Dutchess	340
Orange	457
Putnam	104
Rockland	240
Ulster	384
Westchester	775

■ COLUMBIA ■ DUTCHESS ■ ORANGE ■ PUTMAN ■ ROCKLAND ■ ULSTER ■ WESTCHESTER

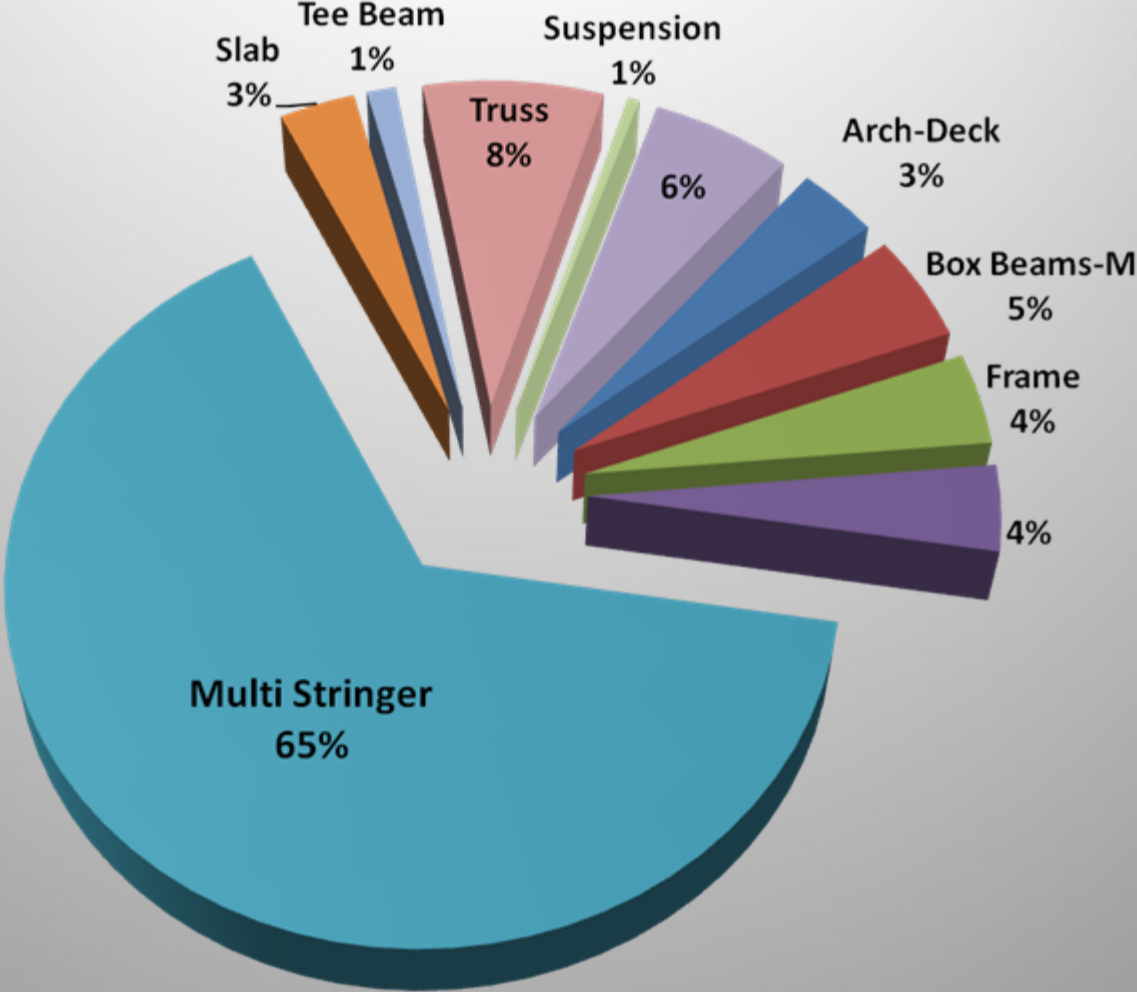
# BRIDGE OWNERSHIP – ULSTER COUNTY



# BRIDGES BY AGE – ULSTER COUNTY



# BRIDGES BY TYPE – ULSTER COUNTY





# BRIDGE DESIGN TYPE -EXAMPLES



Multi-Girder



Pre-Stress –  
Box Girder



Frame

# **BRIDGE INSPECTION**

# BRIDGE INSPECTIONS



# RATING SCALE and CONDITION RATING

CODE	DESCRIPTION
1	Totally deteriorated, or in failed condition
2	Used as shade between rating
3	Serious deterioration, or not functioning as originally designed
4	Used as shade between rating
5	Minor deterioration, but functioning as originally designed
6	Used as shade between rating
7	New condition. No deterioration
8	Not Applicable
9	Condition and /or existence unknown

CONDITION RATING		SAMPLE BRIDGE	
Elements	Weight	Lowest Rating	CR Factor
Bearings, Bolts, Pads	6	5	0.429
Abutment Backwalls	5	5	0.357
Abutment Stem	8	2	0.229
Abutment Wingwalls	5	6	0.429
Seat and Pedestals	6	5	0.429
Primary Members	10	6	0.857
Secondary members	5	5	0.357
Curbs	1	6	0.086
Sidewalk	2	8	---
Structural deck	8	5	0.571
Wearing Surface	4	5	0.286
Piers	8	5	0.571
Joints	4	6	0.343
Total (Max)	72	CR=	4.943
Effective Total	70		

## **NYSDOT DEFICIENT BRIDGE DEFINITION**

NYSDOT defines a deficient bridge as one with a **State** condition rating less than 5.0.

It does not mean that the bridge is unsafe.

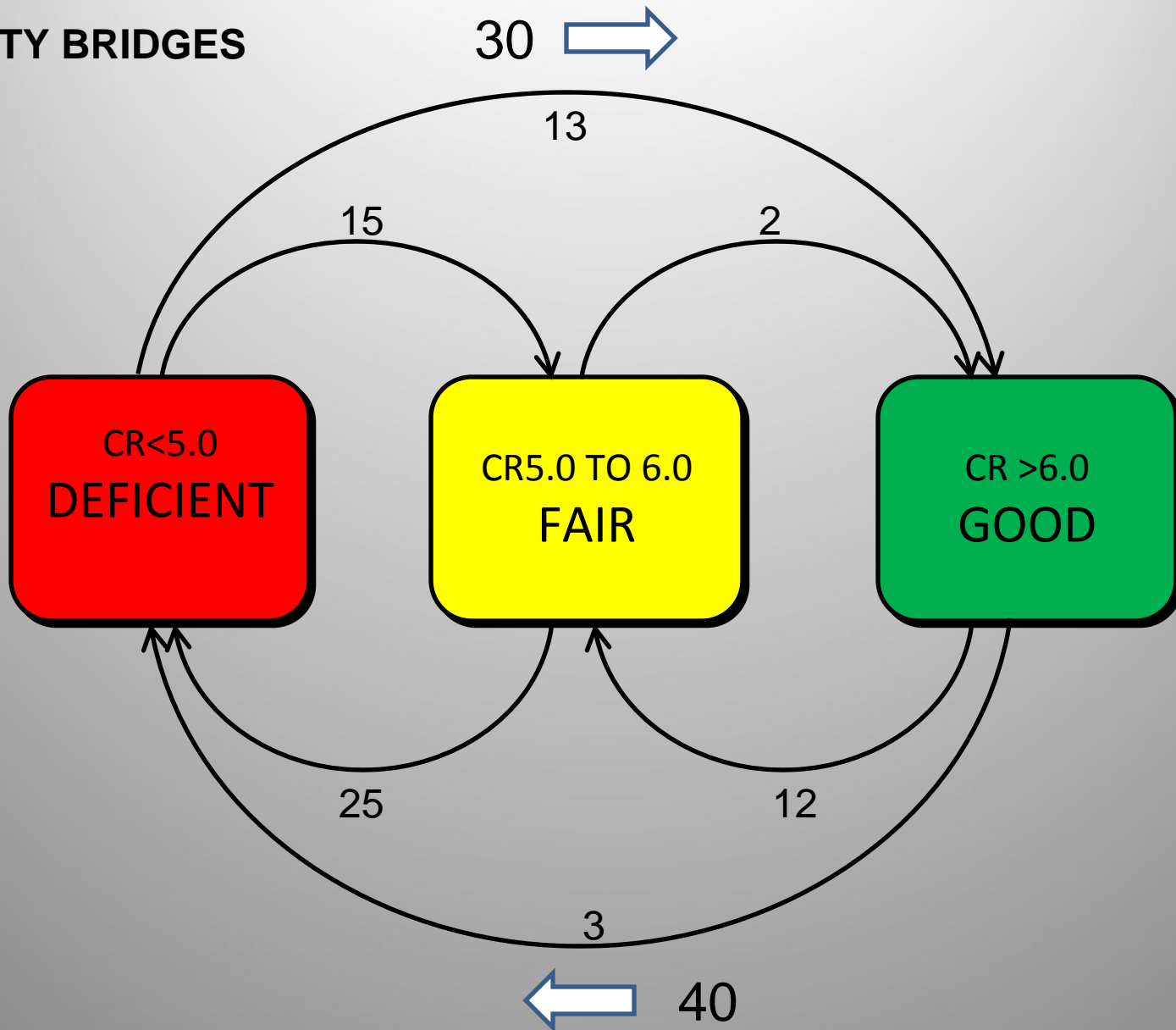
A deficient condition rating indicates deterioration at a level that requires corrective maintenance or rehabilitation to restore the bridge to its fully functional, non-deficient condition.

## BRIDGE DEFICIENCY – ULSTER COUNTY

		BRIDGES	DEFICIENT	%
	STATE	110	48	44%
	COUNTY	155	66	43%
	TOWN	73	30	43%
	VILLAGE	4	3	75%
	CITY	1	1	100%
	OTHERS	----	-----	
	ALL BRIDGES	384	171	44%

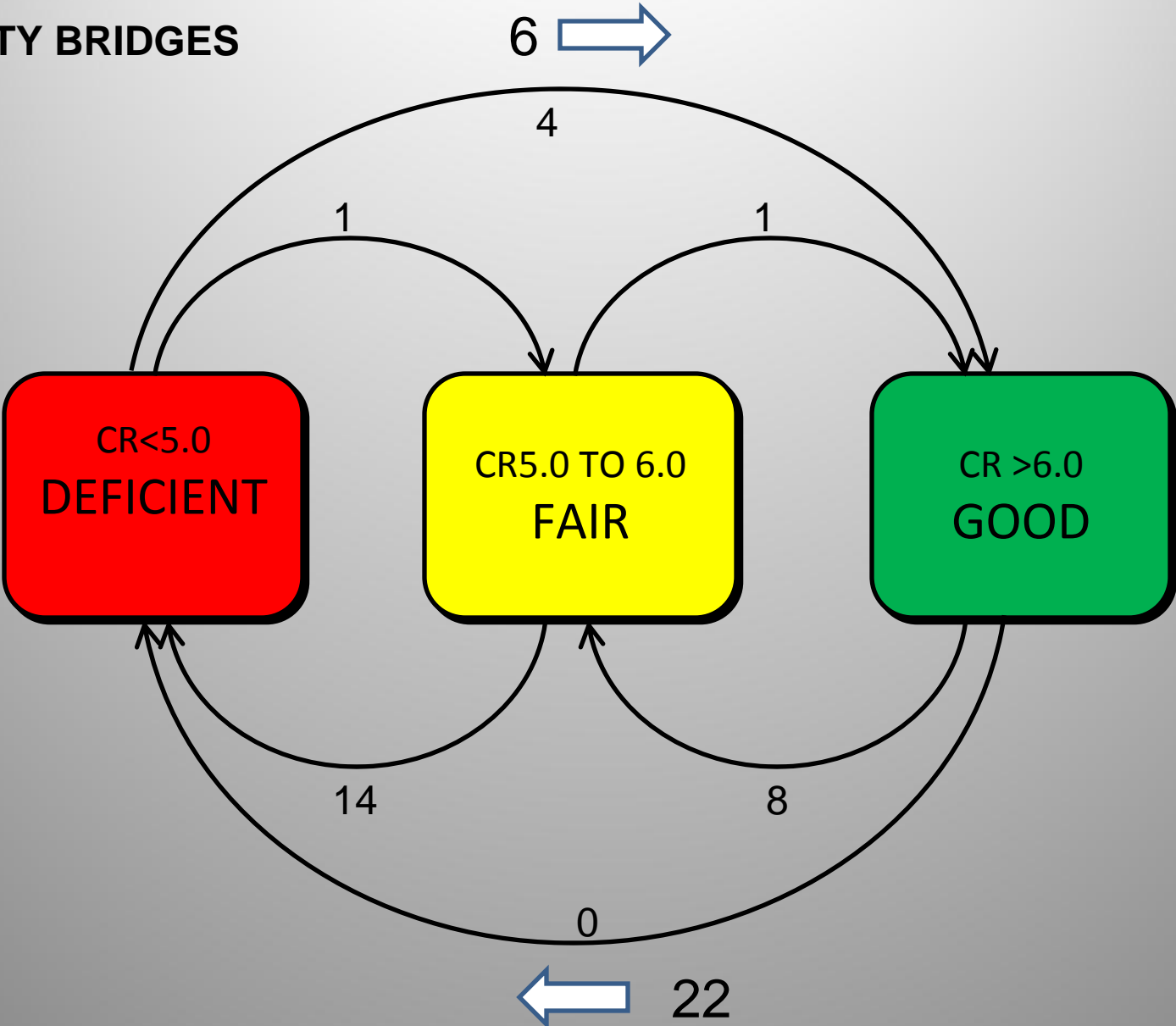
# Condition Rating Change 2002-2013

COUNTY BRIDGES



# Condition Rating Change 20011-2013

COUNTY BRIDGES





## LOWEST CONDITION RATED BRIDGES -LOCAL

	<b>BIN</b>	<b>Carried</b>	<b>Crossed</b>	<b>Primary Owner</b>	<b>Condition Rating</b>
1	3347090	DENNING ROAD	E B NEVERSINK RVR	County	3.063
2	2019580	GREENKILL AVENUE	BROADWAY RTE 28	City	3.136
3	2224250	MILL BROOK ROAD	BELLE AYR BROOK	Town	3.271
4	2224210	CLOVE ROAD	COXING KILL	Town	3.466
5	2270260	HINKLEY RD	MILL BROOK	Town	3.479
6	2224300	OLD ROUTE 209	KRIPPLEBUSH CREEK	Town	3.528
7	3346880	COUNTY ROAD 29A	ESOPUS CREEK	County	3.531
8	3346720	CR 46	RONDOUT CREEK	County	3.594
9	3346850	GLASCO TURNPIKE	ESOPUS CREEK	County	3.611
10	3347630	COUNTY ROAD 31	SAW KILL	County	3.653
11	3346500	PEEKAMOOSE ROAD	BUTTERMILK FLS BK	County	3.754
12	3347260	HURLEY MT ROAD	ESOPUS CREEK	County	3.764
13	3347580	COUNTY ROAD 47	ESOPUS CREEK	County	3.797
14	2262980	CLINTON AVENUE	NORTH GULLY	Village	3.797
15	3347400	COUNTY ROAD 6	RONDOUT CREEK	County	3.797
16	3347430	COUNTY ROAD 19	WALLKILL RIVER	County	3.870
17	3347210	COUNTY ROAD 9	DWAAR KILL	County	3.891
18	3347570	BEAVER KILL ROAD	SCUDDER BROOK	County	3.947
19	3347320	COUNTY ROAD 18	WALLKILL RIVER	County	3.947
20	3045230	299 299 86011060	WALLKILL RIVER	County	3.953
21	2264510	LAWRENCE ROAD	STONY KILL	Town	3.979
22	3347470	DENNING ROAD	E B NEVERSINK RVR	County	3.986
23	3346660	DENNING ROAD	E B NEVERSINK RVR	County	4.000
24	3347560	COUNTY ROAD 42	MALTBY HOLLOW BRK	County	4.033
25	3347530	LEGG'S MILL ROAD	ESOPUS CREEK	County	4.056

# LOAD POSTING



## POSTED BRIDGES - LOCAL

	<b>BIN</b>	<b>Carried</b>	<b>Crossed</b>	<b>CR</b>	<b>Primary Owner</b>	<b>Posted Load (Tons)</b>
1	2019580	GREENKILL AVENUE	BROADWAY RTE 28	3.136	City	8
2	2224210	CLOVE ROAD	COXING KILL	3.466	Town	12
3	3346880	COUNTY ROAD 29A	ESOPUS CREEK	3.531	County	3
4	3346720	CR 46	RONDOUT CREEK	3.594	County	15
5	3346500	PEEKAMOOSE ROAD	BUTTERMILK FLS BK	3.754	County	14
6	3347400	COUNTY ROAD 6	RONDOUT CREEK	3.797	County	20
7	3347580	COUNTY ROAD 47	ESOPUS CREEK	3.797	County	10
8	3347430	COUNTY ROAD 19	WALLKILL RIVER	3.870	County	20
9	3347210	COUNTY ROAD 9	DWAAR KILL	3.891	County	8
10	3347320	COUNTY ROAD 18	WALLKILL RIVER	3.947	County	20
11	2264510	LAWRENCE ROAD	STONY KILL	3.979	Town	3
12	3346660	DENNING ROAD	E B NEVERSINK RVR	4.000	County	8
13	3347530	LEGG'S MILL ROAD	ESOPUS CREEK	4.056	County	30
14	2224790	PORT BEN ROAD	RONDOUT CREEK	4.206	Town	4
15	2224880	MINK HOLLOW ROAD	BEAVER KILL	4.275	Town	15
16	2270000	PECK HOLLOW ROAD	PECK HOLLOW STRM	4.298	Town	20
17	3346870	ULSTER HEIGHTS RD	BOTSFORD BROOK	4.300	County	10
18	2264430	VALLI ROAD	BLACK CREEK	4.415	Town	8
19	3347640	TOW PATH ROAD	STONY KILL	4.421	County	24
20	2224520	PROJECT 32 ROAD	STONY KILL	4.491	Town	19

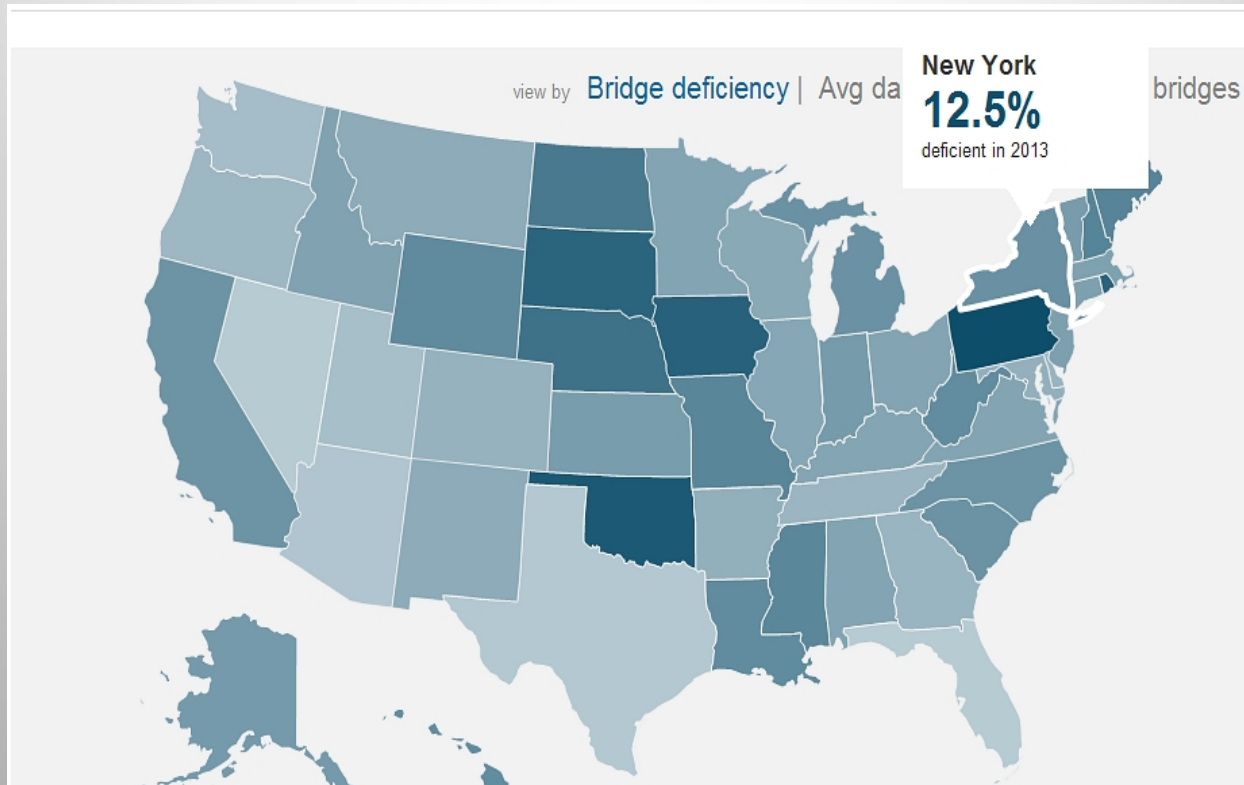
Cont'd

Cont'd POSTED BRIDGES – LOCAL

	<b>BIN</b>	<b>Carried</b>	<b>Crossed</b>	<b>CR</b>	<b>Primary Owner</b>	<b>Posted Load (Tons)</b>
20	2224520	PROJECT 32 ROAD	STONY KILL	4.491	Town	19
21	3347160	COUNTY ROAD 54	BEAVER KILL	4.500	County	20
22	2264400	HERDMAN ROAD	FOX HOLLOW BROOK	4.510	Town	14
23	2224860	MCDANIEL ROAD	SAW KILL	4.542	Town	5
24	3041140	213 213 86011008	TONGORE BROOK	4.611	County	15
25	2224830	CHESTNUT HILL RD	SAW KILL	4.717	Town	5
26	3346570	COUNTY ROAD 31	PLATTEKILL CREEK	4.758	County	36
27	3346430	SPORTSMANS ROAD	RONDOUT CREEK	4.774	County	12
28	3347790	CLRK VANVLERDN RD	PLATTEKILL CREEK	4.833	County	15
29	3347810	BEECH HILL ROAD	BEAVER KILL	4.906	County	15
30	2224600	FAWN HILL ROAD	WOODLAND CREEK	4.965	Town	15
31	3347780	METTACAHONTS ROAD	ROCHESTER CREEK	5.050	County	15
32	2224530	DRUMMOND FALLS RD	KAATERSKILL CREEK	5.137	Town	20
33	2224620	EAGLE MOUNTAIN RD	ESOPUS CREEK	5.193	Town	20
34	2270020	PECK HOLLOW RD	PECK HOLLOW STRM	5.233	Town	20
35	2270130	MOON HAW ROAD	WITTENBERG BROOK	5.250	Town	10

## CLOSED BRIDGES

BIN	Carried	Crossed	Primary Owner	Condition Rating	Load Posting
3347090	DENNING ROAD	E B NEVERSINK RVR	County	3.063	Closed
2270260	HINKLEY RD	MILL BROOK	Town	3.479	Closed



The Federal Highway Administration has established definitions for these terms and uses them to Determine **Eligibility** and **Allocation** for federal bridge replacement funds

# FEDERAL BRIDGE CONDITION DEFINITIONS

**Structurally Deficient (SD)** - A highway bridge is classified as structurally deficient if the deck, and main supports are rated in "poor" condition.

A bridge can also be classified as structurally deficient if its load carrying capacity is significantly below current design standards.

**Functionally Obsolete (FO)** - Highway bridges classified are as functionally obsolete if their design is outdated. They are NOT structurally deficient may have lower load carrying capacity, narrower shoulders or less clearance underneath than bridges built to the current standard.

**BAD BRIDGES DATABASE: Is a bridge near you deficient or obs**

Published: 2:00 AM - 06/23/14  
 Last updated: 10:24 AM - 06/23/14

Sen. Charles Schumer today launched a campaign for increased federal funding of New York local bridge repair projects, citing a report that listed more than 2,000 bridges marked as either structurally deficient or obsolete through the database.

County Name:

Facility Carried:

Features Intersected:

Sufficiency Rating:

**REUTERS**  
 HOME BUSINESS MARKETS WORLD POLITICS TECH OPINION BREAKINGVIEWS

How do bridges in your state compare to other states?

**One in ten U.S. bridges in urgent need of repair: report**

BY ELYVINA NAWAGUNA WASHINGTON | Thu Apr 24, 2014 4:36pm EDT



**AMERICA'S GPA: D+**

**2013 REPORT CARD for U.S. INFRASTRUCTURE**

LAUNCH THE REPORT CARD >

HOME GRADES

**BRIDGES C+**

Many Of The Nation's Bridges Need Repairs

- 25: Percentage of bridges classified as "functionally obsolete" in 2012
- 17: Percentage of bridges classified as "structurally deficient" in 2012
- 42: Percentage of bridges classified as "functionally deficient" in 2012

**USA TODAY**  
 A GANNETT COMPANY

NEWS SPORTS LIFE MONEY TECH TRAVEL OPINION

**U.S. roads, bridges are decaying despite stimulus influx**

Gary Stoller, USA TODAY 12:13 a.m. EDT July 29, 2013



# FHWA FUNDING

- **BRIDGES**
- **2,169** of the **17,420** bridges in New York (**12.5%**) are considered **structurally deficient**.
- **4,718** of the **17,420** bridges in New York (**27.1%**) are considered **functionally obsolete**.
- New York received **\$429.3 million** from the Federal Highway Bridge Fund in FY2011.

## STRUCTURALLY DEFICIENT / FUNCTIONALLY OBSOLETE

<b>OWNER</b>	<b>TOTAL</b>	<b>SD</b>	<b>FO</b>
STATE	110	13	24
THRUWAY	30	7	14
COUNTY	155	32	20
TOWN	73	7	19
VILLAGE	4	1	
CITY	1	1	
NYCDEP	10	1	2
BRIDGE AUTHORITY	3		2
OTHERS	2		

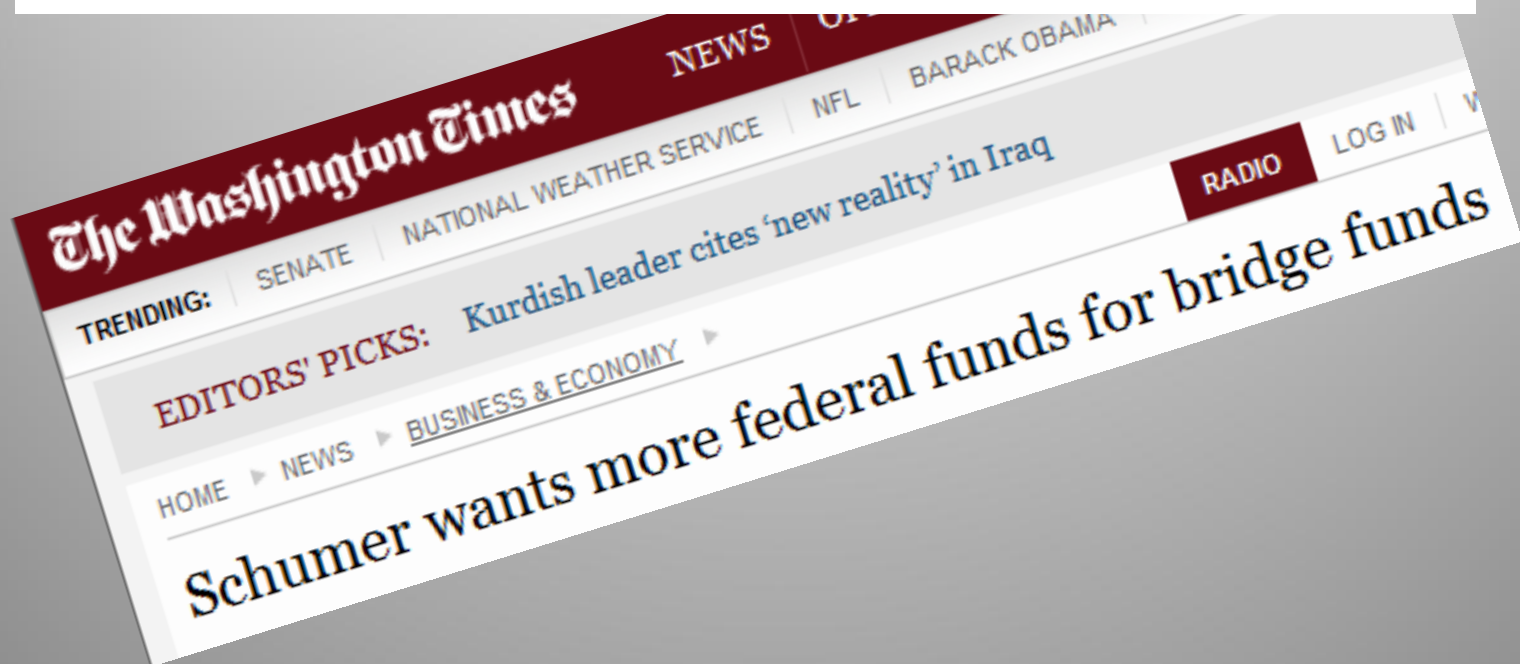
# GOOD NEWS

## Sen. Charles Schumer calls for more aid for local bridges

Lawmaker seeks an additional \$50 million to repair aging local spans in state

By Tim O'Brien

Updated 9:36 pm, Thursday, June 19, 2014



**The End**