Profession Development Conference Data Analytics and Visualization



Doug GLENN

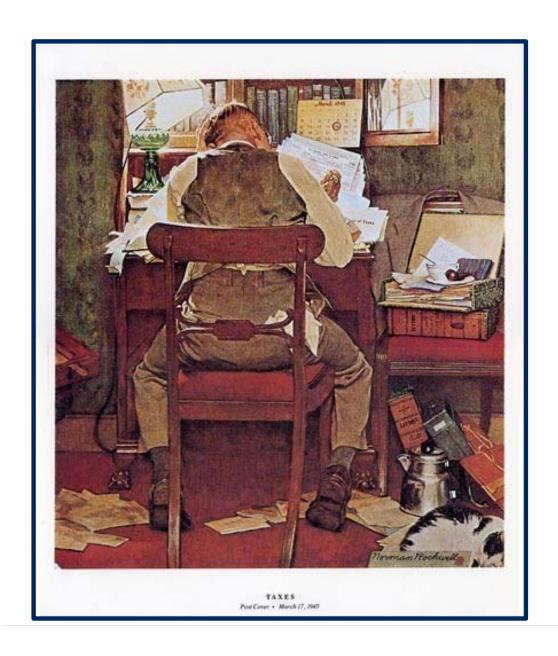
2016-2017 AGA National President

Guam

September 12th - 14th, 2016



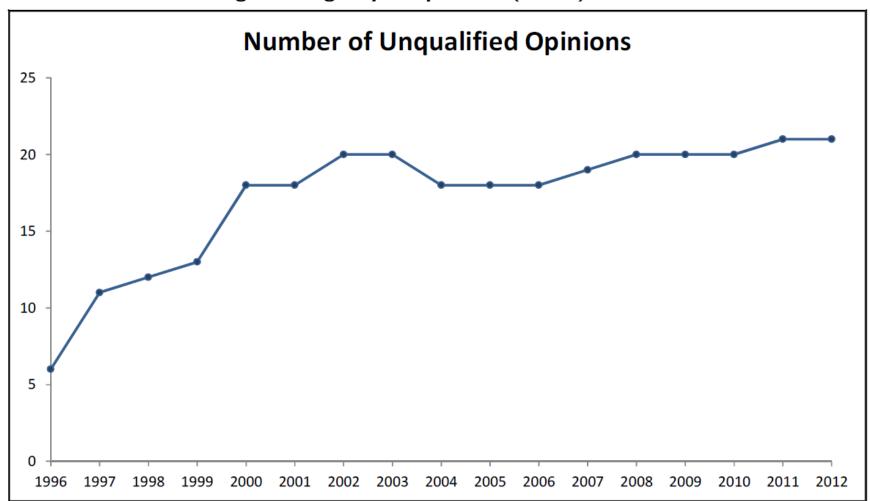
Old Accounting Role





Progress Since 1996

Figure 2. Agency Unqualified (Clean) Audits

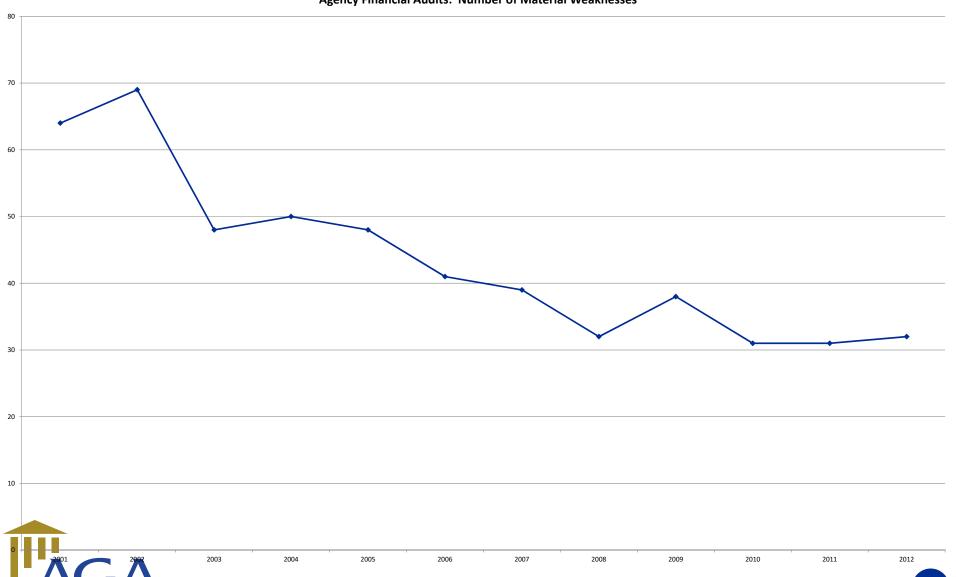




Source: Compiled by CRS from agency data.

Progress Since 2001





Current Reporting Model

Statement of Net Cost for the years ended September 30, 2012 and September 30, 2011							
(dollars in thousands)	FY 2011						
Provide Natural and Cultural Resource Protection							
Gross Costs	\$ 8,525,594	\$ 8,537,412					
Less: Earned Revenue	914,622	810,047					
Net Cost	7,610,972	7,727,365					
Manage Energy, Water & Natural Resources							
Gross Costs	5,613,721	4,996,796					
Less: Earned Revenue	1,846,803	1,938,482					
Net Cost	3,766,918	3,058,314					
Advance Government to Government Relations	ships						
Gross Costs	4,806,140	7,915,007					
Less: Earned Revenue	341,386	391,431					
Net Cost	4,464,754	7,523,576					
Provide a Scientific Foundation for Decision Making							
Gross Costs	1,582,292	1,586,986					
Less: Earned Revenue	387,155	374,231					
Net Cost	1,195,137	1,212,755					
Building a 21st Century Department of the Inte	rior						
Gross Costs	421,437	339,416					
Less: Earned Revenue	2,892	3,499					
Net Cost	418,545	335,917					
Reimbursable Activity and Other							
Gross Costs	3,649,155	3,500,722					
Less: Earned Revenue	1,872,634	1,808,753					
Net Cost	1,776,521	1,691,969					
TOTAL							
Gross Costs	24,598,339	26,876,339					
Less: Earned Revenue	5,365,492	5,326,443					
Net Cost of Operations (Notes 17 and 19)	\$ 19,232,847	\$ 21,549,896					



Current Reporting Model

	TAB 4	TAB 5	Tab 6
	UDO with PoP expired	count of UDOs open	Grant UDOs with PoP
	>90 days ago	amt <3% of original amt and <\$20,000	expired >180 days ago
BLM	8.14%	4.29%	4.72%
BOEM	10.26%	pass	0.12%
BOR	39.54%	3.27%	1.87%
BSEE	1.39%	2.26%	0.00%
DO	14.20%	6.68%	9.32%
FWS	3.80%	5.47%	1.24%
IA	16.01%	2.89%	13.40%
NPS	15.96%	4.65%	15.90%
OSMRE	0.47%	4.12%	0.35%
USGS	6.69%	4.55%	2.18%
ALL	12.89%	4.64%	4.41%
GREEN	0 - 5 %	0 - 5%	0 - 5 %
YELLOW	> 5 % - 10 %	> 5 % - 10 %	> 5 % - 10 %
RED	> 10 %	> 10 %	> 10 %

REIMBURSABLE AGREEMENT MEASURES (UFCO) 2014 Q2 March

	TAB 7	TAB 8	TAB 9
	UFCO % of \$ available	UFCO in unexpired	UFCO bal <5% of
	to obligate in expired	appropriation but	original UFCO
	years	expired PoP	(gl 4221 4222)
		(gl 4221 4222)	
BLM	0.00%	2.71%	1.60%
воем	0.00%	0.48%	pass
BOR	0.01%	1.04%	0.06%
BSEE	0.00%	pass	pass
DO	-1.33%	16.43%	2.90%
FWS	0.33%	5.2 8%	1.04%
IA	0.08%	2.08%	4.40%
NPS	0.00%	12.40%	0.59%
OSMRE	0.00%	pass	0.00%
USGS	-0.25%	0.90%	0.29%
ALL	0.07%	7.59%	1.45%
GREEN	0 - 3 %	0 - 3 %	0 - 1%
YELLOW	> 3 % - 6 %	> 3 % - 6 %	> 1% - 3%
RED	> 6 %	> 6 %	> 3 %

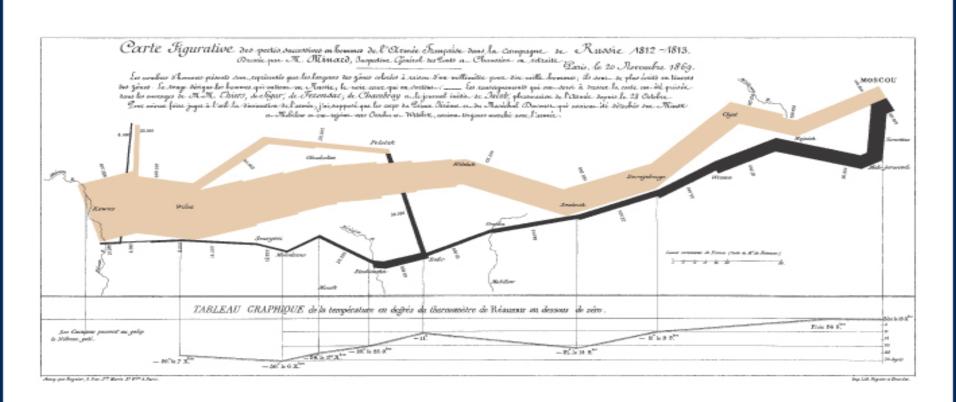
Current Reporting Model

The current reporting model and statements have driven improved internal controls, data integrity, and audit opinions over the last 20 years. Who is reading our statements?

Is there a way to maintain or increase internal controls/data integrity while finding more USEFUL reporting formats?



A Picture is Worth 1,000 #s!



Napoleon's March to Moscow The War of 1812

Charles Joseph Minard.

This classic of Chades Joseph Minard (1911–1979), the French engineer, shows the terrible fate of Napoleon's army in Bassia. Described by E. J. Marcy as seeming to dely the pen of the historian by its brand eloquence, this combination of that map and time-series, drawn in the, portrary the describing losses sufficed in Napoleon's Bassian campging of this. Beginning at the left on the Foliah-Bassian border near the Niemen River, the thirds hand shows the size of the army (122,000 men) as it invaded Bassia in June 1912. The width of the band indicates the size of the army at each place on the map. In September, the army resulted Moscow, which was by them saded and descreted, with 100,000 men. The path of Napoleon's nervant from Moscow is depicted by the darket, lower band, which is Balled to a temperature

scale and dates at the bettom of the chast. It was a bitterly cold winter, and many faces on the march out of Russia. As the graphic shows, the cressing of the Beschein River was a district, and the samy finally struggled back into Polisial with only according allow hower are the movements of auxiliary troops, at they scale to protect the rare and the dusk of the advancing array. Minardly graphic tells a rich, coherent story with its multivariete data, for more enlightening than just a single number bouncing along over time. See vanishes are platted: the size of the array, its location on a two-dimensional surface, direction of the array's movement, and temperature on various dates chaining the nervest from Moscow. It may well be the best statistical graphic over drawn.

 $Edward \ B.\ Thirty. The Pland Display of Quantitative Information — Gasphine Free Box 450 Clarkites, Commutation 19410 and 1970 and 197$

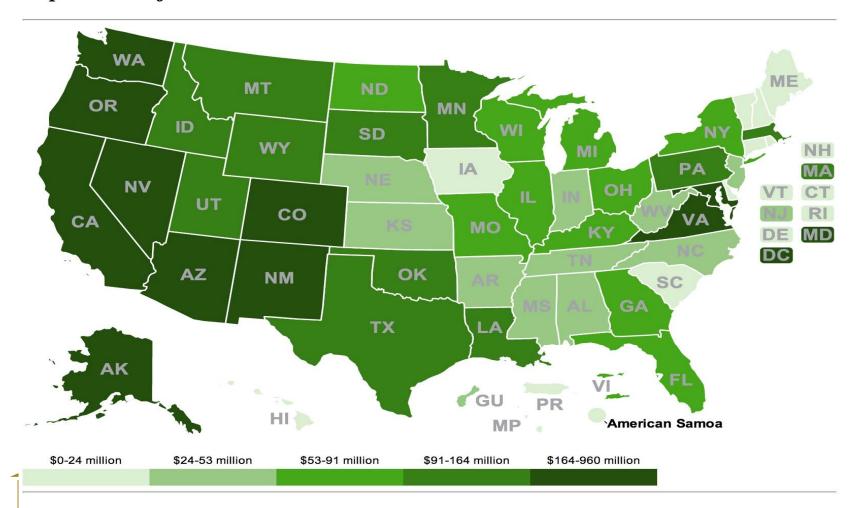
A Picture is Worth 1,000 #s!

10			_			_			10		Number 1 2
10	8	5	7	- 1	4	7	1	6	10	6	O ² 3
8	3	6	9	4	3	10	6	7	4	8	5
2	9	8	1	10	3	7	9	4	- 1	5	Ö7 08
6	3	4	4	- 1	5	9	1	9	2	- 1	8,10
5	2	6	6	4	3	9	1	-1	5	10	Color O None
6	6	- 1	1	9	6	7	9	10	4	- 1	○ Yes Size
9	8	6	8	4	10	7	8	4	4	2	O None Yes
2	9	2	2	10	3	1	3	4	4	6	Total O Hide
5	1	9	2	8	-1	9	10	4	8	8	○ Show Total
7	2	5	2	4	5	5	2	10	4	3	
10	3	7	8	6	8	5	1	7	2	1	
3	6	3	6	6	4	10	7	6	6	6	

A Picture is Worth 1,000 #s!

FY 2013 Domestic Expenditures by State

Department of the Interior



Notes:

**All payroll expenditures are excluded from the map

 $[*]Bureau\ of\ Reclamation\ expenditures\ are\ excluded\ due\ to\ accounting\ system\ conversion\ in-progress$



United States Department of the Interior

FY 2014 Expenditures by OMB Account

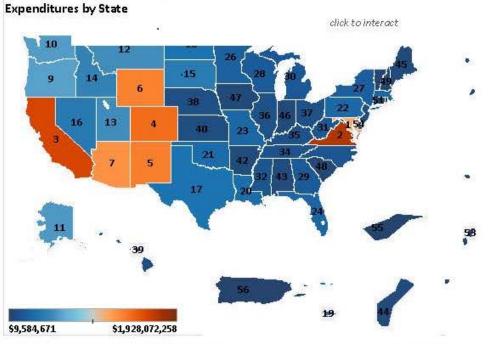
select detail

- OMB Account

 Budget Object Class
- O Vendar

wildcard search

input text and press enter to apply filter click on the x in the box to remove filter



Overall Expenditures: \$21,097,904,473 Mapped Expenditures: \$21,097,904,473

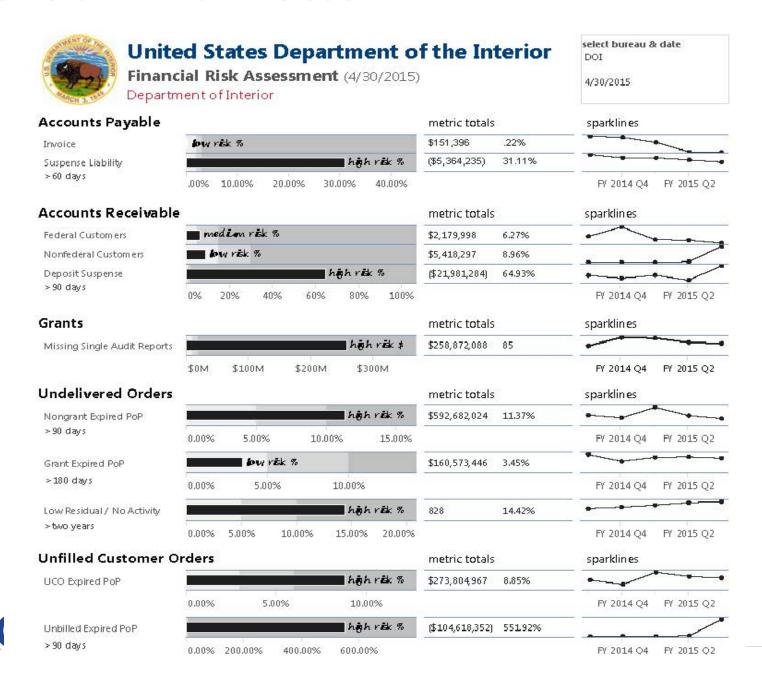
Notes

- 1) Where funding is expended (i.e., paid) may not be the same place where program functions are performed
- 2) Expenditures reconcile to audited balances which are materially correct, however there may be minor anomalies and inaccuracies at the detail level
- 3) FY14 expenditures do NOT directly correlate with figures presented in the FY14 President's Budget since they include amounts from budgets enacted in other fiscal years.

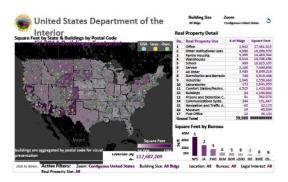
OMB Account Detail for All							
Rank	Detail						
102							

Rank	Detail	Expenditures
1	Operation of Indian Programs	\$2,546,478,752
2	Operation of the National Park System	\$2,184,984,285
3	Mineral Leasing and Associated Payments	\$2,146,565,599
4	Resource Management	\$1,459,826,602
5	Working Capital Fund	\$1,370,040,382
6	Surveys, Investigations, and Research	\$1,367,072,973
7	Management of Lands and Resources	\$986,585,645
8	Interior Franchise Fund	\$875,839,499
9	Water and Related Resources	\$864,857,499
10	Wildland Fire Management	\$744,394,229
11	Federal Aid in Wildlife Restoration	\$459,483,078
12	Payments in Lieu of Taxes	\$437,012,085
13	Sport Fish Restoration	\$431,703,648
14	Working Capital Fund	\$371,694,256
15	Payments to the United States Territories, Fiscal As.	\$346,276,550
16	Salaries and Expenses	\$320,505,282
17	Lower Colorado River Basin Development Fund	\$273,249,229
18	Construction (and Major Maintenance)	\$271,494,141
19	Offshore Safety and Environmental Enforcement	\$194,293,768
20	Abandoned Mine Reclamation Fund	\$182,480,097
21	Construction	\$177,237,726
22	Payments to States in Lieu of Coal Fee Receipts	\$160,613,451
25	Decreation Fee Permanent Appropriations	A450 807 040

click to download map data

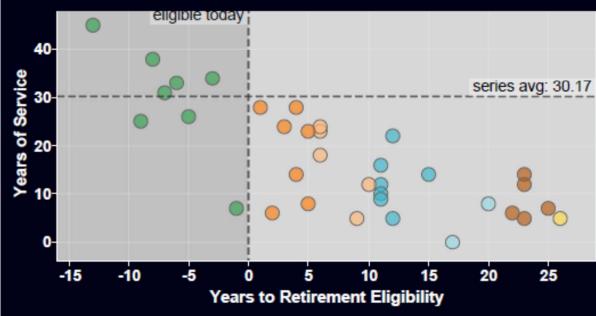








Indian Affairs Retirement Eligibility Series Analysis as of April 8th, 2015



Series average based on actual retirements from 10/1/2007 thru 04/08/2015

Static Retirement Forecast



Filters:	Click to Highlight:		
Organization Descript All	Eligible Now		
All	Eligible this Year		
Sub Bureau Descripti All	Next 5		
Current Performance	Next 10		
All	Next 15		
Future Performance L	Next 20		
All	Next 25		
Series	Next 30		
0510	Next 31 or More		

Тор	15 Ser	ies Impacted	To
Ra	Seri	Employees	be
1	1710	1,151	the
2	1702	859	Sel
3	0303	373	15
4	0462	339	
5 6	0301	297	
6	1170	278	Ret
7	4749	251	All
8	5703	231	
9	7404	227	
10	0083	187	
11 12	3566	182	5
12	1101	170	2
13	0007	165	3
14	1811	154	6
15	0340	134	
16	Other	2,979	

Top N and Retirement Status filters below only affect the table in this b..

Select Top N

15

Retirement Stat..

All

Costs AND Benefits

National Park Service

- Managed 397 Park Units including the Grand Canyon and the Washington Monument, comprising nearly 85 million acres of land in 49 states, U.S. insular areas, and Territories
- ► Hosted over 279 million visits throughout the National Park system
- Maintained over 71,000 fragile and irreplaceable archeological sites, preserving links to our country's cultural and historical past

NPS	(dollars in thousands)		
Gross Cost	\$	3,637,504	
Earned Revenue		524,970	
Net Cost	\$	3,112,534	

Indian Affairs

- Managed 55 million surface acres and 57 million acres of subsurface minerals estates held in trust by the U.S. for individuals and tribes
- Provided education services to approximately 42,000 Indian students through 183 schools and dormitories
- Works in partnership with the more than 566 federally recognized Indian tribes to build stronger economies and safer Indian communities

IA	(dollars in thousands)		
Gross Cost	\$	4,631,638	
Earned Revenue		418,587	
Net Cost	\$	4,213,051	

Costs AND Benefits



United States Department of Interior

Our Mission: Protecting America's Great Outdoors and Powering Our Future

Providing Value to the American People

This dashboard highlights some of the **many** benefits provided by each of the Department's Bureaus.

Hover over a logo and follow the link to explore a unique dataset from each Bureau.



















Leadership

- Acknowledge your role as LEADER (see Leadership That Gets Results by Daniel Goleman).
- Work on your EQ.
- Give your team tangible opportunities for achievement. What is success?
- Celebrate successes and acknowledge setbacks.
- Be Decisive (Colin Powell Formula).
- Give positive AND constructive feedback (you want staff to succeed).
- When communicating, focus on the feeling/emotion as opposed to the words.
- Don't micro-manage; your staff's success is your success.



Parting Thoughts

The 2010 Exhibit 52 listed approximately \$49 B for Federal financial management including audit costs.

The 2010 U.S. Budget was \$4.5 T.

Therefore, **OUR** industry costs 1% of the U.S. Budget.

What would the fraud, waste, and abuse be without our 1%?



Parting Thoughts

We have all the financial activities of the private sector AND have to also record and report budgetary activities as well.

The program activities we're accounting for are MUCH more varied than the private sector which exists primarily (and simply) to maximize profits.

Be proud!



Closing

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