# INTRA FISCAL YEAR TARGETS A BUDGETARY TOOL OR A FORECAST HANGOVER ?





FTA Revenue Estimating Conference Providence, Rhode Island October 23, 2012

Randhir Jha, Senior Fiscal Analyst Indiana Legislative Services Agency

## MONTHLY TARGET METHODOLOGY

### sales tax example

Sales Tax

BASED ON AVERAGE OF FY 2006, 07, 10,11 & 12

SALES		JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
Total GF and PTRF		¢201.2	¢202.1	\$398.7	¢200.7	P265 0	¢207 5	04512	¢250 (	\$382.2	¢201.7	\$20 <i>6 5</i>	¢414.0	¢4.721.0
FY 2004 FY 2005		\$391.2 \$416.0	\$383.1 \$417.7	\$398.7 \$413.8	\$398.7 \$408.9	\$365.8 \$399.2	\$387.5 \$394.1	\$451.3 \$485.4	\$359.6 \$373.2	\$382.2 \$392.8	\$391.7 \$421.9	\$396.5 \$419.2	\$414.8 \$418.3	\$4,721.0 \$4,960.4
FY 2006		\$439.6	\$417.7	\$433.2	\$408.9	\$399.2 \$434.4	\$394.1 \$415.9	\$483.4 \$526.9	\$373.2 \$404.4	\$400.0	\$421.9 \$441.2	\$419.2 \$435.7	\$418.3 \$446.1	\$4,900.4 \$5,226.3
FY 2007		\$459.0 \$450.0	\$433.8 \$448.0	\$453.2 \$454.2	\$413.0 \$451.6	\$434.4 \$420.5	\$413.9		\$404.4 \$410.7	\$400.0	\$441.2 \$465.4	\$433.7 \$438.8	\$472.2	\$5,220.3 \$5,379.1
								\$531.6						
FY 2008 (at 6%)		\$480.2	\$459.4	\$463.0	\$447.3	\$444.8	\$456.7	\$533.1	\$430.1	\$435.8	\$474.3	\$439.6	\$470.2	\$5,534.4
FY 2009		\$579.5	\$549.9	\$551.0	\$538.1	\$491.4	\$488.1	\$579.9	\$467.2	\$453.4	\$484.5	\$471.0	\$489.2	\$6,143.2
FY 2010		\$514.2	\$490.0	\$484.7	\$492.4	\$466.2	\$472.0	\$572.7	\$449.4	\$460.3	\$517.1	\$494.2	\$501.6	\$5,914.7
FY 2011		\$521.6	\$515.7	\$512.6	\$493.3	\$493.5	\$505.2	\$606.7	\$487.7	\$483.8	\$534.0	\$522.1	\$541.4	\$6,217.5
FY 2012		\$558.6	\$554.0	\$554.3	\$541.8	\$535.8	\$529.0	\$617.7	\$498.6	\$531.0	\$586.3	\$543.4	\$571.3	\$6,621.8
D				F.	Y 2009 BM	V Correction	on				2.4	4.5	3.2	
Distribution		0.0020	0.0011	0.0044	0.0045	0.0555	0.0021	0.0056	0.07/0	0.0010	0.0020	0.0040	0.0070	1 0000
FY 2004		0.0829	0.0811	0.0844	0.0845	0.0775	0.0821	0.0956	0.0762	0.0810	0.0830	0.0840	0.0879	1.0000
FY 2005		0.0839	0.0842	0.0834	0.0824	0.0805	0.0794	0.0979	0.0752	0.0792	0.0850	0.0845	0.0843	1.0000
FY 2006		0.0841	0.0830	0.0829	0.0794	0.0831	0.0796	0.1008	0.0774	0.0765	0.0844	0.0834	0.0854	1.0000
FY 2007		0.0837	0.0833	0.0844	0.0840	0.0782	0.0787	0.0988	0.0763	0.0767	0.0865	0.0816	0.0878	1.0000
FY 2008 (at 6%)		0.0868	0.0830	0.0837	0.0808	0.0804	0.0825	0.0963	0.0777	0.0787	0.0857	0.0794	0.0850	1.0000
FY 2009		0.0943	0.0895	0.0897	0.0876	0.0800	0.0795	0.0944	0.0760	0.0738	0.0789	0.0767	0.0796	1.0000
FY 2010		0.0869	0.0828	0.0820	0.0833	0.0788	0.0798	0.0968	0.0760	0.0778	0.0874	0.0835	0.0848	1.0000
FY 2011		0.0839	0.0829	0.0824	0.0793	0.0794	0.0813	0.0976	0.0784	0.0778	0.0859	0.0840	0.0871	1.0000
FY 2012		0.0844	0.0837	0.0837	0.0818	0.0809	0.0799	0.0933	0.0753	0.0802	0.0885	0.0821	0.0863	1.0000
BASED ON FY06,07,10,11 & 12		8.46%	8.31%	8.31%	8.16%	8.01%	7.98%	9.75%	7.67%	7.78%	8.66%	8.29%	8.63%	100.0%
FY 2013 Forecast	\$6,864.6													
		JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	
Percent Dist. Of Revenues		8.46%	8.31%	8.31%	8.16%	8.01%	7.98%	9.75%	7.67%	7.78%	8.66%	8.29%	8.63%	100.0%
FY 2013 Forecast		\$580.7	\$570.7	\$570.4	\$559.9	\$549.7	\$548.1	\$669.1	\$526.4	\$534.2	\$594.2	\$569.1	\$592.1	\$6,864.6
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Actual FY 2012		\$558.6	\$554.0	\$554.3	\$541.8	\$535.8	\$529.0	\$617.7	\$498.6	\$531.0	\$586.3	\$543.4	\$571.3	\$6,621.8
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Percent Diff. Target to Prior Yr.		4.0%	3.0%	2.9%	3.3%	2.6%	3.6%	8.3%	5.6%	0.6%	1.3%	4.7%	3.6%	3.7%

## TARGET ADJUSTMENTS - income tax example

#### **INDIVIDUAL INCOME TAX TARGETS**

Step 1: Compile historical series of individual income tax revenues.

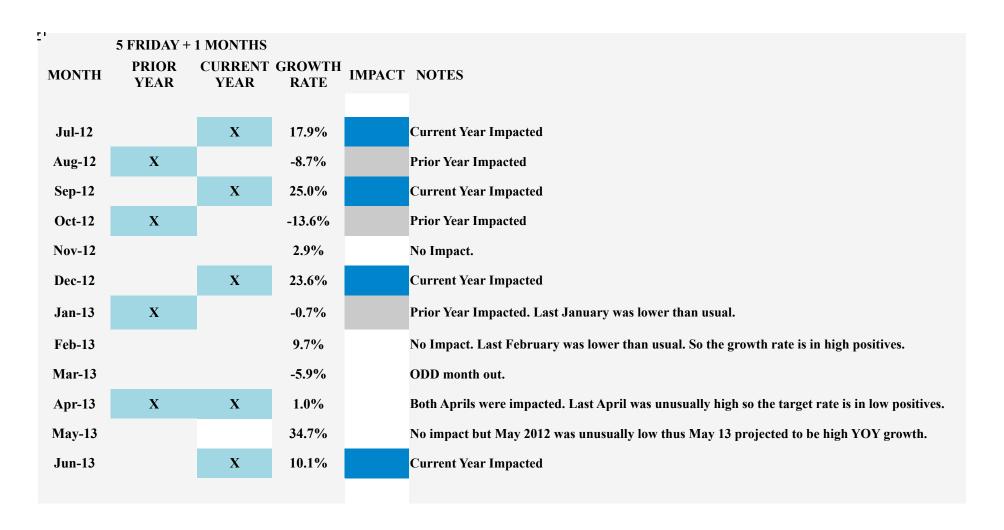
Step 2: Calculate distributions across the months for each year.

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Distribution	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
FY 1997	0.071	0.065	0.088	0.076	0.065	0.072	0.120	0.077	0.075	0.107	0.105	0.081	1.000
FY 1998	0.074	0.067	0.079	0.082	0.067	0.071	0.110	0.071	0.069	0.109	0.108	0.092	1.000
FY 1999	0.071	0.068	0.078	0.075	0.067	0.066	0.104	0.083	0.063	0.122	0.118	0.084	1.000
FY 2000	0.079	0.071	0.092	0.068	0.071	0.068	0.120	0.059	0.064	0.116	0.107	0.084	1.000
FY 2001	0.081	0.067	0.095	0.076	0.067	0.068	0.122	0.046	0.063	0.130	0.096	0.089	1.000
FY 2002	0.076	0.068	0.100	0.074	0.069	0.081	0.116	0.050	0.064	0.125	0.080	0.098	1.000
FY 2003	0.069	0.070	0.106	0.073	0.071	0.082	0.112	0.057	0.064	0.118	0.078	0.101	1.000
FY 2004	0.066	0.071	0.102	0.071	0.078	0.078	0.109	0.050	0.068	0.123	0.091	0.093	1.000
FY 2005	0.067	0.078	0.092	0.073	0.075	0.072	0.116	0.042	0.068	0.132	0.093	0.090	1.000
FY 2006	0.065	0.073	0.092	0.076	0.067	0.075	0.121	0.042	0.067	0.148	0.080	0.094	1.000
FY 2007	0.074	0.064	0.092	0.075	0.065	0.075	0.115	0.044	0.067	0.144	0.091	0.093	1.000
FY 2008	0.068	0.063	0.099	0.068	0.064	0.079	0.109	0.043	0.074	0.157	0.080	0.095	1.000
FY 2009	0.071	0.072	0.108	0.076	0.078	0.075	0.103	0.047	0.070	0.124	0.083	0.092	1.000
FY 2010	0.058	0.081	0.095	0.071	0.078	0.078	0.107	0.045	0.075	0.132	0.095	0.085	1.000
FY 2011	0.068	0.079	0.088	0.072	0.078	0.073	0.103	0.044	0.075	0.119	0.113	0.090	1.000
FY 2012	0.068	0.076	0.089	0.081	0.068	0.075	0.105	0.042	0.074	0.159	0.069	0.093	1.000
	Months fol	lowing 5 F	ridays										
DISTRIBUTION FY 2013	0.067	0.073	0.095	0.074	0.071	0.076	0.109	0.044	0.072	0.140	0.087	0.092	1.00

# TARGET ADJUSTMENTS - income tax extra pay period adjustment...

IMPACT on 5 FRI +1	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Tota
Distributive share of 5 Fridays +1	0.075	0.075	0.097	0.077	0.074	0.078	0.115	0.061	0.074	0.137	0.102	0.093	
Distributive share when Not 5 Fridays + 1	0.069	0.067	0.090	0.073	0.067	0.073	0.110	0.046	0.068	0.124	0.089	0.090	
Step 4: Calculate the percent difference be		_	distributi	ons from	Step 3.								
Percent Difference	8.7%	11.5%	7.8%	5.4%	10.8%	7.6%	4.1%	33.8%	8.7%	10.0%	14.8%	4.0%	
Step 5: Calculate the average distribution	across the	months f	for FY 200	06 - FY 20	012 and g	ross up th	ne 5 Frida	ys +1 mo	nths by th	ne Step 4	amounts.		
DISTRIBUTION FY 2013	0.067	0.073	0.095	0.074	0.071	0.076	0.109	0.044	0.072	0.140	0.087	0.092	1.00
Percent Change from Step 4	8.7%		7.8%			7.6%				10.0%		4.0%	
Adjustment for 5 Fridays +1	0.006		0.007			0.006				0.014		0.004	0.03
Adjusted shares for 5 Fridays + 1	0.073		0.102			0.081				0.154		0.095	
Step 6: Calculate the distribution of the N	ot 5 Frida	y + 1 mon	ths and b	alance th	e total sha	ares back	to 100%						
Share of Not 5 Friday + 1 months		13.7%		14.0%	13.4%		20.6%	8.3%	13.5%		16.5%		
Adjustment for Not 5 Fridays + 1		-0.005		-0.005	-0.005		-0.008	-0.003	-0.005		-0.006		-0.03
Adjusted Not 5 Fridays + 1		0.068		0.069	0.066		0.102	0.041	0.067		0.081		
Step 7: Combine Step 5 and Step 6 amour	ıte												
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# TARGET ADJUSTMENTS – income tax growth over FY 2012...



# TARGET ADJUSTMENTS – income tax growth over FY 2012...

#### MONTHLY TARGETS BEFORE ADJUSTMENTS

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
GROWTH OVER FY 2012	5.5%	0.5%	14.1%	-5.0%	13.3%	12.5%	8.3%	23.9%	3.6%	-9.3%	47.4%	4.9%	6.7%

#### MONTHLY TARGETS AFTER ADJUSTMENTS

	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	TOTAL
GROWTH OVER FY 2012	17.9%	-8.7%	25.0%	-13.6%	2.9%	23.6%	-0.7%	9.7%	-5.9%	1.0%	34.7%	10.1%	6.7%

	JUL	AUG	SEP
ACTUAL GROWTH OVER FY 2012	27.3%	-12.5%	21.2%

### MONTHLY TARGET METHODOLOGY

#### year over year target

#### FY 2013 Target comparison to FY 2012 Actual

		July	August 9	September	October	November	December	January	February	March	April	May	June	TOTAL
Sales & Use GF	FY 2012 Actual	\$558.6	\$554.0	\$554.3	\$541.8	\$535.8	\$529.0	\$617.7	\$498.6	\$531.0	\$586.3	\$543.4	\$571.3	\$6,621.8
	FY 2013 Target	\$580.7	\$570.7	\$570.4	\$559.9	\$549.7	\$548.1	\$669.1	\$526.4	\$534.2	\$594.2	\$569.1	\$592.1	\$6,864.6
	% Change	4.0%	3.0%	2.9%	3.3%	2.6%	3.6%	8.3%	5.6%	0.6%	1.3%	4.7%	3.6%	3.7%
Individual AGI	FY 2012 Actual	\$305.0	\$352.9	\$435.1	\$384.4	\$304.9	\$333.1	\$544.1	\$137.3	\$337.4	\$871.8	\$304.8	\$454.6	\$4,765.5
	FY 2013 Target	\$359.7	\$322.4	\$543.8	\$332.2	\$313.8	\$411.7	\$540.5	\$150.6	\$317.5	\$880.9	\$410.6	\$500.4	\$5,084.0
	% Change	17.9%	-8.7%	25.0%	-13.6%	2.9%	23.6%	-0.7%	9.7%	-5.9%	1.0%	34.7%	10.1%	6.7%
Corporate - AGI, URT, USUT, FIT	FY 2012 Actual	\$38.9	(\$12.7)	\$220.8	\$21.7	\$16.8	\$152.7	\$2.5	(\$31.3)	\$57.5	\$211.3	\$28.0	\$252.6	\$958.8
	FY 2013 Target	\$24.5	\$0.4	\$176.6	\$40.3	(\$1.9)	\$134.6	(\$11.3)	(\$13.2)	\$47.9	\$193.3	\$15.1	\$178.6	\$784.9
	% Change	-37.0%	103.5%	-20.0%	85.5%	-111.6%	-11.9%	-548.5%	57.9%	-16.6%	-8.5%	-45.9%	-29.3%	-18.1%
Riverboat Wagering	FY 2012 Actual	\$1.4	\$23.7	\$34.7	\$31.8	\$36.5	\$41.1	\$43.4	\$51.9	\$60.8	\$54.2	\$64.7	\$52.4	\$496.5
	FY 2013 Target	\$3.7	\$24.2	\$30.3	\$32.6	\$33.2	\$36.6	\$42.2	\$45.9	\$58.2	\$55.0	\$55.3	\$53.8	\$471.0
	% Change	169.3%	2.0%	-12.7%	2.6%	-9.0%	-10.9%	-2.9%	-11.5%	-4.3%	1.4%	-14.5%	2.7%	-5.1%
Racino Wagering	FY 2012 Actual	\$9.7	\$9.6	\$10.4	\$8.9	\$8.4	\$8.5	\$9.2	\$10.7	\$11.5	\$9.8	\$10.9	\$10.0	\$117.6
	FY 2013 Target	\$8.0	\$6.9	\$7.2	\$7.2	\$6.1	\$6.9	\$7.6	\$8.5	\$10.0	\$9.3	\$8.9	\$9.5	\$96.1
	% Change	-17.6%	-28.2%	-30.5%	-19.2%	-27.4%	-18.5%	-17.3%	-20.8%	-12.9%	-5.3%	-18.4%	-4.9%	-18.3%
Other Revenues	FY 2012 Actual	\$98.2	\$40.0	\$78.8	\$92.2	\$36.7	\$101.7	\$98.5	\$35.5	\$41.0	\$115.0	\$37.0	\$390.3	\$1,164.9
	FY 2013 Target	\$92.7	\$39.4	\$72.5	\$88.6	\$36.1	\$99.3	\$98.0	\$34.7	\$46.7	\$106.7	\$38.2	\$378.5	\$1,131.4
	% Change	-5.7%	-1.6%	-8.0%	-3.9%	-1.6%	-2.4%	-0.4%	-2.1%	13.8%	-7.2%	3.3%	-3.0%	-2.9%
General Fund Total	FY 2012 Actual	\$1,011.8	\$967.5	\$1,334.1	\$1,080.9	\$939.0	\$1,166.2	\$1,315.5	\$702.7	\$1,039.2	\$1,848.3	\$988.8	\$1,731.1	\$14,125.1
	FY 2013 Target	\$1,069.2	\$964.1	\$1,400.7	\$1,060.8	\$936.9	\$1,237.1	\$1,346.1	\$753.0	\$1,014.5	\$1,839.3	\$1,097.3	\$1,712.9	\$14,432.0
	% Change	5.7%	-0.4%	5.0%	-1.9%	-0.2%	6.1%	2.3%	7.2%	-2.4%	-0.5%	11.0%	-1.1%	2.2%

## Is it a forecast hangover??

### An example ...Refunds or No Refunds...a monthly debate

_!	FY 2012	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	Y-T-D
Total General Fund	Actual	\$1,011.8	\$967.5	\$1,334.1	\$1,080.9	\$939.0	\$1,166.2	\$1,315.5	\$702.7	\$1,039.2	\$1,848.3	\$988.8	\$1,731.1	\$14,125.1
	Target	\$1,001.9	\$966.6	\$1,325.8	\$1,056.0	\$939.0	\$1,165.7	\$1,379.6	\$747.5	\$1,016.2	\$1,689.2	\$1,131.9	\$1,655.6	\$14,074.9
	Difference	\$9.9	\$0.9	\$8.3	\$24.9	(\$0.0)	\$0.5	(\$64.1)	(\$44.7)	\$23.0	\$159.1	(\$143.1)	\$75.6	\$50.2
	YTD Diff.	\$9.9	\$10.8	\$19.1	\$43.9	\$43.9	\$44.4	(\$19.7)	(\$64.5)	(\$41.4)	\$117.7	(\$25.4)	\$50.2	

#### **Indiana State Revenues Dip In January**

By: Brandon Smith, Indiana Public Broadcasting Stations

Posted: February 7, 2012

#### February's State Revenue Less Than Forecasted

**By: Brandon Smith, Indiana Public Broadcasting Stations Posted: March, 2012** For the second straight month, state revenue collections are below forecasted levels.....

#### **April state revenue tops expectations**

State revenue beat expectations in April for the second month in a row, reversing a trend that saw Indiana fall short of forecast revenue in January and February.

## State Revenue Forecast proving to be accurate June 04, 2012 By Dan Carden dan.carden@nwi.com

State revenue is on pace to meet or exceed estimates when the 2012 budget year ends June 30.



### State surplus triggers automatic refund

Maureen Hayden The Herald-Tribune

BATESVILLE — The state of Indiana has ended its fiscal year with a bonus for taxpayers: An automatic refund of at least \$100 next year.



#### Why do we need monthly targets?.....Budgetary Tool

Ξ!

#### Comparison Of Monthly Revenues To Targets Based On The Budget Plan

_	REVENUE REPORT FOR FY 2009, Published June 30th 2009												
	JUL	AUG	SEP	ОСТ	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUNE	
ACTUAL	951.6	859.8	1,283.4	956.7	814.6	1,038.9	1,134.5	629.7	828.6	1,366.8	894.5	1,208.6	
<b>APRIL 2007 PLAN</b>	945.5	880.3	1,300.1	1,004.7	881.5	1,146.3	1,345.0	730.5	978.1	1,752.4	1,046.0	1,380.5	
DIFFERENCE	6.1	-20.5	-16.7	-48.0	-66.9	-107.4	-210.5	-100.8	-149.5	-385.6	-151.5	-171.9	

Fiscal Year 20	009
<b>Actual Revenue</b>	11,967.7
Budget Plan	13,390.9
Difference	-1,423.2
Avg Diff per Month	-118.6
% Avg. Difference	-0.9%

This is an example of the need for at least internal revenue targets. Once you have the internal targets and you notice an extreme revenue trend, it is difficult to make adjustments without the targets being shared with the public. Thus, the publication of monthly targets is important.

## **Budgetary Tool.....continued**



**BUDGET BILL** 

**SECTION 30. [EFFECTIVE JULY 1, 2011]** 

Subject to SECTION 25 of this act as it relates to the budget committee, the budget agency with the approval of the governor may withhold allotments of any or all appropriations contained in this act for the 2011-2013 biennium, if it is considered necessary to do so in order to prevent a deficit financial situation.

Under Indiana law, the Governor has the authority to cut spending anytime during the budget cycle. If the target is not good or if the management does not take revenue situation into consideration then the right decision cannot be made in real time.

SOME STATES NEED THE TARGETS MORE: They have to call for a special session in order to impose the cuts. The legislation and the following execution of the new spending plan take time and a monthly report is more valuable than the quarterly or annual reports.





## FY 2009 vs. FY 2012

#### FY 2009

MONTHLY DIFF.	JUL 6.1	AUG (20.5)	SEP (16.7)	OCT (48.0)	NOV (66.9)	DEC (107.4)	JAN (210.5)	FEB (100.8)	MAR (149.5)	APR (385.6)	MAY (151.5)		FY TOTAL (1,423.2)
YTD Diff.	6.1	(14.4)	(31.1)	(79.1)	(146.0)	(253.4)	(463.9)	(564.7)	(714.2) (	(1,099.8) (	(1,251.3) (	(1,423.2)	

#### **FY 2012**

MONTHLY DIFF.	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	FY TOTAL
	9.9	0.9	8.3	24.9	0.0	0.5	(64.1)	(44.7)	23.0	159.1	(143.1)	75.6	50.3
YTD Diff.	9.9	10.8	19.1	44.0	44.0	44.5	(19.6)	(64.3)	(41.3)	117.8	(25.3)	50.3	

In FY 2009, most states experienced a free fall of revenues. Indiana was missing the monthly target by almost 1% of the state budget. The monthly target is critical in case of 2009.

FY 2012 ended almost very close to where it was after four months. There was volatility in the months between October and June but the difference from Target did not change much. So the monthly target in case of FY 2012 added to public/media noise and speculation.

## **Conclusion**

#### Other markers in the monthly revenue report are also important:

Year over Year revenue What is the revenue trend Timing Issues with revenue stream

In Indiana an attached commentary helps fill the information gap and caveats of the monthly report. Unforeseen timing issues and returns processing is discussed to provide more information.

Bottom-line figures are used to make the point anyway.....and it seems that we have to live with it.

## Thank you

#### Links:

Indiana General Assembly: <a href="http://www.in.gov/legislative/index.htm">http://www.in.gov/legislative/index.htm</a>

http://www.in.gov/sba/2364.htm

Indiana General Fund Revenue Data: <a href="http://www.in.gov/sba/2363.htm">http://www.in.gov/sba/2363.htm</a>

Indiana Budget Data:

Indiana Auditor of State: <a href="http://www.in.gov/auditor/">http://www.in.gov/auditor/</a>

Indiana Treasurer of State: <a href="http://www.in.gov/tos/">http://www.in.gov/tos/</a>