



Use tax

- States with a sales tax have a compensating use tax.
- Use tax definitions vary across states.
- Who collects use tax? Quill, 1992

Census E-Stats Data Coverage

- 1999 present
- E-Stats data are national.
- E-Stats do not cover the entire U.S. economy.
- E-commerce measures Internet, EDI (Electronic data interchange), etc.

U.S. Shipments, S Comm	ales, Revenue erce: 2003	es and E-	
	Value of Shipments, Sales or Revenue (\$ billions)		
Description	Total	E-Commerce	
Total	16,648	1,679	
B-to-B*	8,296	1,573	
Manufacturing	3,980	843	
Merchant Wholesale	4,316	730	
B-to-C*	8,352	106	
Retail	3,275	56	
Selected Services	5.077	50	











Tax Loss Estimates

- · Calculate base sales
 - E-commerce sales (Internet, EDI, etc.)
- Taxability (exempt sales)
- Compliance
- · Calculate sales resulting in loss
- Apply state (+ local) tax rates
- Projections: e-commerce growth assumption



- Consumer use tax compliance, very low
- Most business transactions are not subject to sales or use tax
 - Inputs to production processes
 - Purchases for resale
- AUDIT => (large) businesses...higher use tax compliance than small businesses or households















*The Washington (02) remote sales estimate is for consumers only

How do 2003 state estimates compare with Bruce/Fox and DMA?
Hard to compare...
Most states only estimate B2C and/or mail order...
Alabama estimate is higher than Bruce/Fox

Examples of state methods

- Minnesota Tax Gap Study American Economics Group databases of transaction and audit data...input-output approach
- · Alabama survey of middle-income consumers
- California B2C + B2B research on the B2B estimates
- Several States Retail e-commerce as a % of taxable retail sales.
- Wisconsin, Michigan Combine retail e-commerce/mail order loss estimates with (business) use tax non-compliance rates







2003 loss estimates	E-commerce
Bruce/Fox	\$331 m - \$345 m
Minnesota	\$133.9 m*
DMA	\$50.9

MN use tax revenue (2003) = **\$238.9** million

*Note: In 2000, 81% of the e-commerce gap was use tax; 19% sales tax. E-commerce gap was all non-filers (not underreporting).



- Loss estimates
- Actual use tax revenue
- Estimated use tax revenue

Data Collection: 45 states with sales tax

	yes	no	in progress
Use tax	29	6	10
Loss estimate	14*	20	11

2 loss estimates (IL, AL) are not from official state sources.







Au	jusieu	Sla	ate	sales ta	X (Jala	ιΟ
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	2003 Adjusted General	State	Sales & Gro	ss Receints Tax Collections (s Milli	ons)	
	1 ALABAMA*	AL	1 894	23 MISSOURI	MO	2.819	
	2 ARIZONA*	AZ	4.287	24 NEBRASKA*	NE	1.420	
	3 ARKANSAS	AR	1.951	25 NEVADA	NV	2,192	
	4 CALIFORNIA	CA	24,899	26 NEW JERSEY	NJ	5.936	
	5 COLORADO	CO	1,833	27 NEW MEXICO*	NM	1,491	
	6 CONNECTICUT	CT	3,065	28 NEW YORK*	NY	8,507	
	7 FLORIDA*	FL	15,078	29 NORTH CAROLINA*	NC	3,992	
	8 GEORGIA*	GA	4,738	30 NORTH DAKOTA*	ND	429	
	9 HAWAII*	HI	1,707	31 OHIO	OH	6,761	
	10 IDAHO	ID	842	32 OKLAHOMA*	OK	1,503	
	11 ILLINOIS*	IL	6,613	33 PENNSYLVANIA	PA	7,561	
	12 INDIANA	IN	4,210	34 RHODE ISLAND*	RI	766	
	13 IOWA	IA	1,726	35 SOUTH CAROLINA*	SC	2,576	
	14 KANSAS	KS	1,888	36 SOUTH DAKOTA*	SD	483	
	15 KENTUCKY*	ΚY	2,820	37 TENNESSEE*	TN	5,414	
	16 LOUISIANA*	LA	2,776	38 TEXAS*	ΤX	17,409	
	17 MAINE	ME	857	39 UTAH	UT	1,487	
	18 MARYLAND*	MD	3,4605	40 VERMONT*	VT	316	
	19 MASSACHUSETTS	MA	3,708	41 VIRGINIA*	VA	3,305	
	20 MICHIGAN*	MI	7,652	42 WASHINGTON*	WA	6,006	
	21 MINNESOTA*	MN	4,904	43 WEST VIRGINIA*	WV	1,139	
	22 MISSISSIPPI*	MS	2,464	44 WISCONSIN*	WI	3,741	
			,	45 WYOMING	WY	425	







