Minnesota Consumption Tax Model and Sales Tax Gap

Federation of Tax Administrators

Revenue Estimating and Tax Research Conference

September 15, 2008

Portland, Maine

By Rod Hoheisel Minnesota Department of Revenue rod.hoheisel@state.mn.us

Minnesota Sales and Use Tax Gap Report

- ☐ Updates Previous Study
- ☐ New Study
 - Contract for work and updated model.

- DOR had working role for part of the study.
- Base year estimates for 2004, projections to 2011.

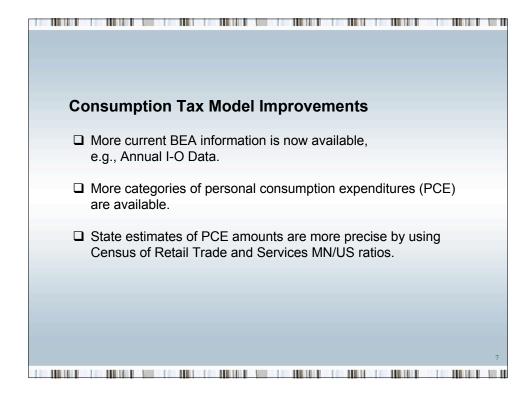
2

| Basic Questions Addressed in the Report |
|---|
| ☐ What is the estimated amount of sales and use tax gap? |
| ☐ How rapidly will the tax gap grow? |
| ☐ How much of the tax gap results from underpayment by current filers compared to non-filers? |
| ☐ What industries are most likely to underpay tax? |
| ☐ How does underpayment of use tax compare to underpayment of sales tax? |
| ☐ How much of the unpaid total is attributable to remote sales? |
| |
| |

Department of Revenue Role Goal was to make it possible for Tax Research/DOR to produce future updates. DOR prepared: 1) taxpayer transaction files, 2) audit data files (used for imputations to unaudited taxpayers by industry).

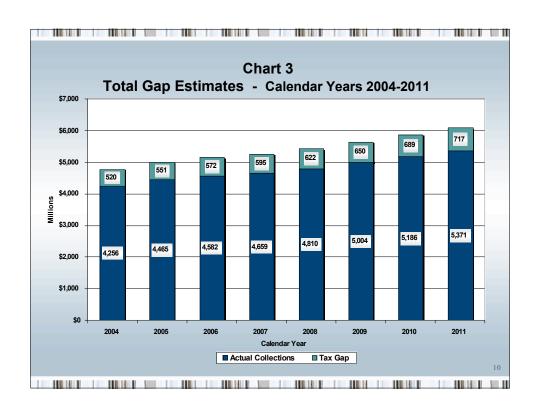
| Gap Estimates are Based on Consumption Tax Mode | el |
|---|----|
| ☐ Consumption Tax Model provides estimates of sales and use tax collections under "full compliance" scenario. | |
| ☐ Full compliance — actual pre-audit collections = tax gap | |
| | |
| | |
| | |
| | 5 |

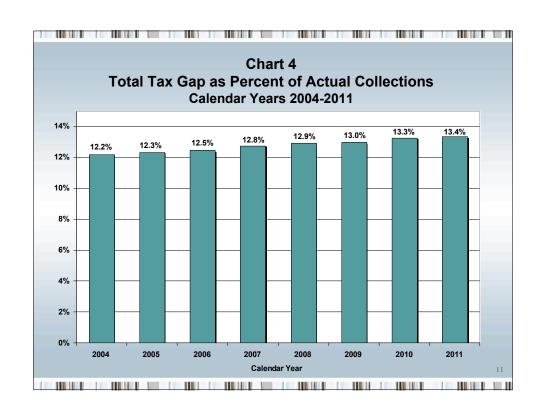
Consumption Tax Model Calculations Based on I-O and other U.S. data (scaled to MN) that detail purchases by industry/commodity. Estimates portion of these purchases assumed to be taxable. Includes estimates of sales and use tax payments for: 1) consumers on their purchases, 2) businesses on intermediate good purchases, and 3) businesses on capital purchases.



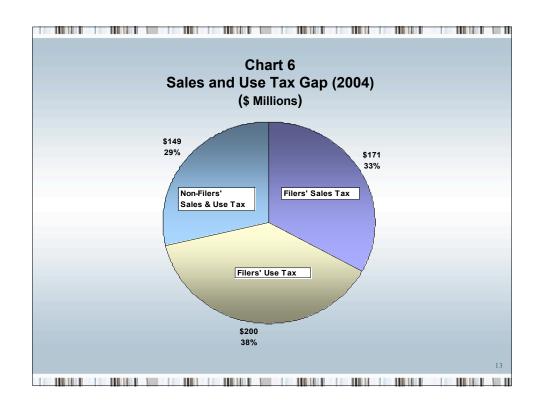
| Chart 1 Taxpayer Files and Consumption Tax | ax Model Steps |
|---|---------------------------------|
| Source | Measure |
| (i) Consumption Tax Model: Estimate of All Transactions Subject to Tax | Full Compliance Estimate |
| (ii) Sales and Use Tax Return Transaction Files | Actual Pre-Audit Collections |
| (iii) Difference of (i) – (ii) | Total Sales and Use Tax Gap |
| (iv) Audit Data Imputed to All Filers by Industry to Estimate Underpayments | Filer Sales and Use Tax Gap |
| (v) Difference of (iii) – (iv) | Non-Filer Tax Gap |

| Estimate | ed Sales and | Chart 2 I Use Tax Ga | p by Year | (\$ |
|---------------------------|--------------------------|------------------------------------|-----------|--------------------------------------|
| Millions) Calendar Year | Potential Collections | Actual Pre-Audit Collections | Gap* | Gap as Percent of Actual Collections |
| 2004 | \$4,776 | \$4,256 | \$520 | 12.2% |
| 2005 | 5,016 | 4,465 | 551 | 12.3% |
| 2006 | 5,154 | 4,582 | 572 | 12.5% |
| 2007 | 5,254 | 4,659 | 595 | 12.8% |
| 2008 | 5,433 | 4,810 | 622 | 12.9% |
| 2009 | 5,653 | 5,004 | 650 | 13.0% |
| 2010 | 5,875 | 5,186 | 689 | 13.3% |
| 2011 | 6,088 | 5,371 | 717 | 13.4% |

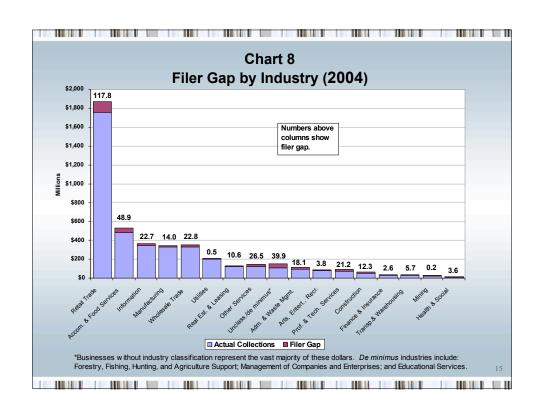








| Filer Gap b | y Industry in 2 | 2004 (\$ Millio | ons) |
|-----------------------------------|------------------------------------|-----------------|-----------|
| Industry | NAIC Ranges | Collections | Filer Gap |
| Retail Trade | 441000 - 454390 | \$1,755.1 | \$117.8 |
| Accommodation & Food Services | 720000 - 722410 | 484.9 | 48.9 |
| Information | 510000 - 519190 | 348.5 | 22.7 |
| Manufacturing | 311000 - 339999 | 336.8 | 14.0 |
| Wholesale Trade | 420000 - 425120 | 333.8 | 22.8 |
| Utilities | 220000 - 221330 | 209.2 | 0.5 |
| Real Estate & Leasing | 530000 - 533110 | 127.0 | 10.6 |
| Other Services | 810000 - 928120 | 123.8 | 26.5 |
| Unclassified and | 110000 - 115310 550000 - 551114 | 102.7 | 39.9 |
| de minimus* | 610000 - 611710 & Unclassified | | |
| Adm. & Waste Management | 560000 - 562998 | 100.1 | 18.1 |
| Arts, Entertainment, & Recreation | 710000 - 713990 | 85.9 | 3.8 |
| Prof. & Tech. Services | 540000 - 541990 | 79.2 | 21.2 |
| Construction | 236000 - 238990 | 55.6 | 12.3 |
| Finance & Insurance | 520000 - 525990 | 36.6 | 2.6 |
| Transp. & Warehousing | 481000 - 493190 | 32.9 | 5.7 |
| Mining | 210000 - 213115 | 30.5 | 0.2 |
| Health & Social | 620000 - 624410 | 13.4 | 3.6 |
| Totals | | \$4,256.0 | \$371.1 |



| Chart 9 Gap as Percent of Collections by Industry (\$ M | | | | |
|---|-------------|------------------------|--|--|
| Category | Collections | Percent of Collections | | |
| ALL FILERS | \$4,256.0 | 8.7% | | |
| Utilities | 209.2 | 0.2% | | |
| Mining | 30.5 | 0.7% | | |
| Manufacturing | 336.8 | 4.2% | | |
| Arts, Entertainment, & Recreation | 85.9 | 4.4% | | |
| Information | 348.5 | 6.5% | | |
| Retail Trade | 1,755.1 | 6.7% | | |
| Wholesale Trade | 333.8 | 6.8% | | |
| Finance & Insurance | 36.6 | 7.1% | | |
| Real Estate & Leasing | 127.0 | 8.3% | | |
| Accommodation & Food Services | 484.9 | 10.1% | | |
| Transportation & Warehousing | 32.9 | 17.3% | | |
| Administration & Waste Management | 100.1 | 18.1% | | |
| Other Services | 123.8 | 21.4% | | |
| Construction | 55.6 | 22.1% | | |
| Professional & Technical Services | 79.2 | 26.8% | | |
| Health & Social | 13.4 | 26.9% | | |
| Unclassified & De minimus* | 102.7 | 38.9% | | |

