Findings and Tax Model Review: Presentation to Revenue Stabilization and Tax Policy Committee

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Project purpose

EY was commissioned by the State of New Mexico to:

- Develop a delivered model for the Legislative Council Service
- 2 Undertake an analysis of the degree of pyramiding in the gross receipts tax (GRT)
- 3 Analyze the distributional impacts of various tax changes on households and businesses
- 4
- Assess the strengths and weaknesses of New Mexico's tax system
- 5 Deliver a report that summarizes the model and major findings

Outline

- Project Overview
- Findings from Analysis of Current Taxation System
- GRT Model
- PIT Model
- Questions

2. Current tax system in New Mexico



State sales tax and gross receipts tax rates by state, 2016

| | | Weighted Average |
|------------|----------------------|-----------------------|
| | State Sales Tax Rate | State and Local |
| State Name | | Sales Tax Rates |
| Arizona | 5.60% | 8.25% |
| California | 7.50% | 8.48% |
| Colorado | 2.90% | 7.52% |
| Hawaii* | 4.00% | 4.35% |
| Nevada | 6.85% | 7.98% |
| New Mexico | 5.125% | 7.51% |
| Oklahoma | 4.50% | 8.82% |
| Oregon | No state tax | No state or local tax |
| Texas | 6.25% | 8.17% |
| Utah | 5.95% | 6.69% |

Source: Tax Foundation. Rates as of January 1, 2016. *The rate for Hawaii is associated with the Hawaii gross receipts tax, referred to as the GET.

New Mexico tax brackets for the Personal Income Tax, 2017

| | New M | exico Taxable Income | |
|-------------------|------------------------|------------------------|-------|
| Filing | | | |
| Status | Over | Not over | Rate |
| Single | | | |
| | \$0 | \$5,500 | 1.70% |
| | \$5,500 | \$11,000 | 3.20% |
| | \$11,000 | \$16,000 | 4.70% |
| | \$16,000 | | 4.90% |
| Married Joint, | Qualifying Widow(er |), & Head of Household | |
| | \$0 | \$8,000 | 1.70% |
| | \$8,000 | \$16,000 | 3.20% |
| | \$16,000 | \$24,000 | 4.70% |
| | \$24,000 | | 4.90% |
| Married Separ | ate | | |
| | \$0 | \$4,000 | 1.70% |
| | \$4,000 | \$8,000 | 3.20% |
| | \$8,000 | \$12,000 | 4.70% |
| | en in effect since Jar | | 4.90% |
| lew Mexico Taxati | ion and Revenue De | partment | |

State personal income tax rates by state, 2016

Flat rate or maximum rate shown

| | | Flat or maximum |
|------------|----------------|-----------------|
| State Name | State PIT Rate | rate shown |
| Arizona | 4.54% | Maximum |
| California | 13.3% | Maximum |
| Colorado | 4.63% | Flat |
| Hawaii* | 8.25% | Maximum |
| Nevada | No PIT | Not applicable |
| New Mexico | 4.9% | Maximum |
| Oklahoma | 5.0% | Maximum |
| Oregon | 9.9% | Maximum |
| Texas | No PIT | Not applicable |
| Utah | 5.0% | Flat |

Source: Tax Foundation

Revenue stability and yield key takeaways

- New Mexico's GRT is more volatile than the sales and gross receipts taxes of the peer states, except for Oklahoma and Utah, and is more volatile than the peer group average.
- New Mexico is less reliant on the GRT than other states are on their sales/general excise tax revenues, with the exception of Colorado.
- New Mexico's PIT revenue volatility is lower than all its peers due to a lower share of business and capital gain income compared to the comparison states.
- The state is less reliant on the PIT than its peers. The state is also less reliant on the PIT than the GRT, a more volatile revenue source.

Tax volatility and state reliance on GRT & sales tax revenue

| | | ty Score, I1-2016 | Reliance on tax source for direct stat expenditures, FY16 | | |
|--------------|-----------|----------------------|--|---------|--|
| State | Sales Tax | GRT/GET | Sales Tax | GRT/GET | |
| Arizona | 3.7 | | 21.28% | | |
| California | 3.3 | | 17.55% | | |
| Colorado | 2.7 | | 10.41% | | |
| Hawaii | | 4.6 | | 26.11% | |
| Nevada | 3.8 | | 37.87% | | |
| New Mexico | | 5.6 | | 13.74% | |
| Oklahoma | 6.1 | | 12.06% | | |
| Texas | 4.6 | | 24.21% | | |
| Utah | 5.7 | | 12.93% | | |
| Peer Average | 4.3 | | 20.49% | | |

Source: FY 2016 Annual Survey of State Government Finances; FY 2016 U.S. Census Bureau State Tax Collections

PIT revenue volatility & reliance

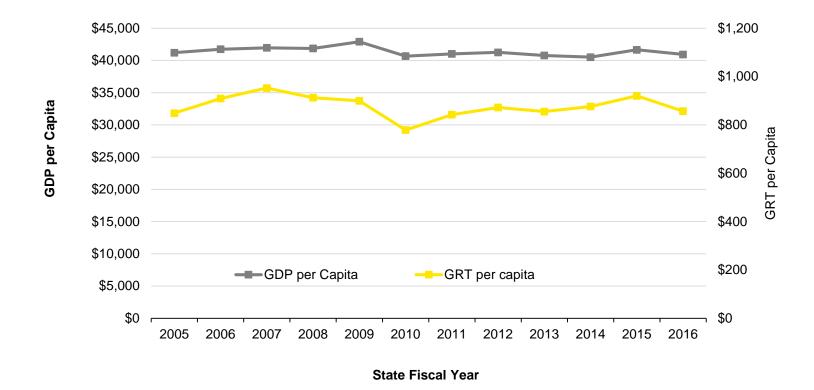
| State | PIT Volatility Score (2011-16) | Reliance on tax source for direct state expenditures, FY16 |
|--------------|-----------------------------------|--|
| Arizona | 4.5 | 12.68% |
| California | 5.1 | 36.16% |
| Colorado | 4.7 | 23.77% |
| Hawaii | 12.8 | 17.24% |
| New Mexico | 2.2 | 9.29% |
| Oklahoma | 6.9 | 14.62% |
| Oregon | 2.3 | 26.73% |
| Utah | 4.2 | 20.94% |
| Peer Average | 4.6 | 22.48% |

Source: The Pew Charitable Trusts, compiled by authors; calculations using US Census Bureau State and Local Governmental Finances data.

Revenue adequacy key takeaways

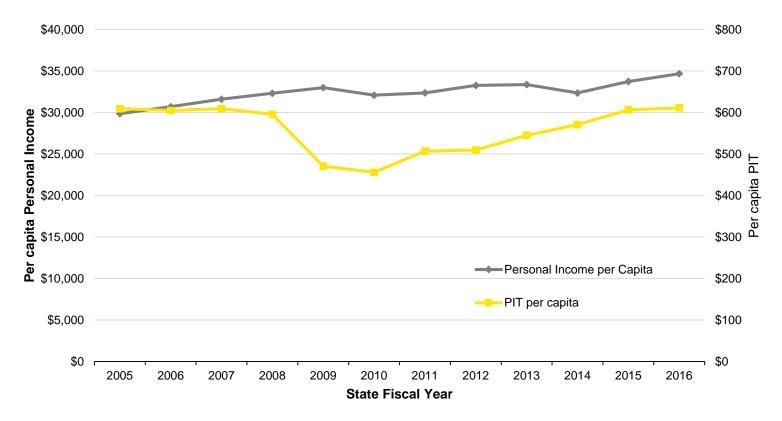
- During the FY 2005-16 period, after adjusting for changes in population and inflation, the GRT, in general, follows the trend of economic activity in the state.
- The trend of the PIT follows fairly closely with the trend in state personal income, particularly in the years after 2009. Common to all states, New Mexico PIT receipts fell substantially during the 2008 recession but have consistently increased since 2011.
- Over the longer period of 1998-2016, although GRT revenue has a positive association with economic activity, the revenue from the GRT has grown more slowly than state GDP. Conversely, PIT revenue grew slightly faster than personal income in New Mexico over this period.

Inflation-adjusted per capita state GDP and GRT receipts (\$=2009), 2005-2016



Sources: New Mexico Department of Revenue; US Bureau of Economic Analysis

Inflation-adjusted per capita personal income and PIT receipts (\$=2009)



Sources: US Census Bureau Government Finance Statistics, US Bureau of Economic Analysis

Long-run elasticity estimates for GRT and PIT, 1998-2016

| Mariahla | Model 1 | Model 2 |
|-----------------------------------|-----------------------------|--------------------------------|
| Variable | Policy-adjusted GRT revenue | Policy-adjusted PIT revenue |
| Fiscal year nominal GDP | .61*** | |
| Lagged nominal Personal Income | 0.00** | 1.14 *** |
| Constant | 3.23** | -6.22*** |
| Observations | 19 | 19 |
| Adj. R-Squared | .78 | .94 |
| F-Statistic | 63.9*** | 297.1*** |

Source: Authors' analysis using data from U.S. Bureau of Economic Analysis and U.S. Census Bureau State Government Tax Collections.

*** Indicates coefficients are statistically significant at the 1% level, ** at the 5% level.

Tax burdens key takeaways

- The ratio of total state and local taxes (net of tax expenditures) borne by businesses in New Mexico is 6.4% of gross state product, higher than the peer state average and the US average.
- Business taxes (net of tax expenditures) per private sector employee in New Mexico for FY 2016 equaled \$7,000. The US average was \$5,800.
- New Mexico's residents are relatively less burdened by their PIT than their peers (except for Arizona) as indicated by the relatively low values of PIT revenue as a percentage of personal income and PIT revenue per capita for FY 2016.

Business taxes to gross state product and business taxes per employee, FY2016

| State | Ratio of total state and local business taxes to gross state product (TEBTR) | Business taxes per employee (\$ in 000) |
|--------------|--|--|
| Arizona | 4.8% | \$5.3 |
| California | 4.2% | \$6.4 |
| Colorado | 4.3% | \$5.4 |
| Hawaii | 5.8% | \$7.0 |
| Nevada | 5.3% | \$5.8 |
| New Mexico | 6.4% | \$7.0 |
| Oklahoma | 4.2% | \$4.9 |
| Oregon | 3.7% | \$4.5 |
| Texas | 4.7% | \$6.5 |
| Utah | 3.7% | \$4.0 |
| US Average | 4.5% | \$5.8 |
| Peer Average | 4.5% | \$5.5 |

Source: Phillips, A., Sallee, C., & Peak, C. (2017). Total state and business taxes. *Ernst & Young LLP, Council on State Taxation, & State Tax Research Institute.*

PIT as a percent of personal income, FY 2016

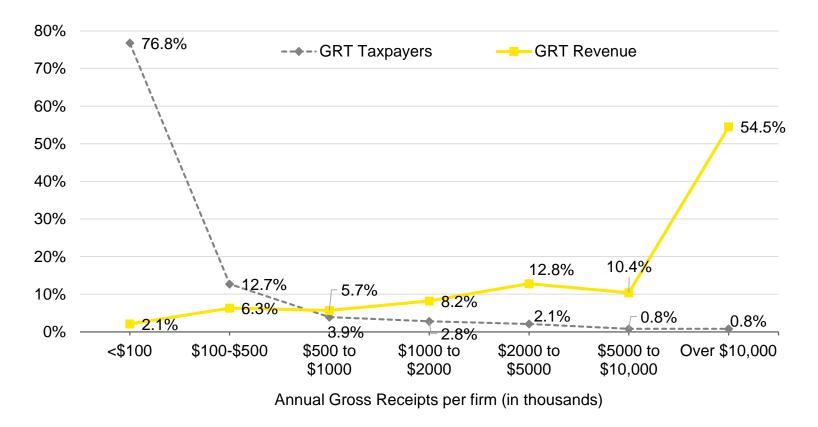
| State | PIT Revenue as a % of Personal Income | Per capita PIT |
|--------------|--|----------------|
| Arizona | 1.42% | \$574 |
| California | 3.65% | \$2,055 |
| Colorado | 2.25% | \$1,173 |
| New Mexico | 1.76% | \$676 |
| Oklahoma | 1.79% | \$764 |
| Oregon | 4.14% | \$1,882 |
| Utah | 2.70% | \$1,108 |
| Texas | No Personal In | ncome Tax |
| Nevada | No Personal In | ncome Tax |
| US Average | 2.30% | \$1,104 |
| Peer Average | 2.66% | \$1,259 |

Source: U.S. Census Bureau, 2016 State Tax Collections; and Bureau of Economic Analysis

Equity and fairness key takeaways

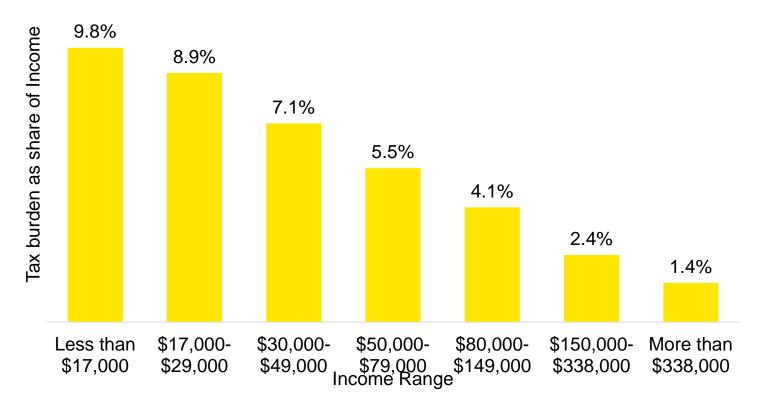
- Approximately 45% of gross receipts in FY 2017 were classified as taxable for firms with annual receipts of over \$10 million. Alternatively, more than 70% of gross receipts are subject to tax for firms with gross receipts of less than \$100,000.
- The GRT is fairly regressive. Taxpayers with incomes less than \$17,000 pay almost 10% of their income as GRT taxes while those with incomes above \$338,000 pay 1.3% of their income in taxes. Although higher income individuals have a larger overall tax liability compared to low-income individuals, they pay less tax as a percent of their income.
- New Mexico's PIT demonstrates a fair degree of progressivity, particularly for incomes up to \$100,000 due to the presence of the graduated rate structure and two credits that provide targeted relief to lowincome taxpayers.

Share of GRT taxpayers and GRT revenue by firm size, FY2017



Sources: New Mexico Taxation and Revenue Department

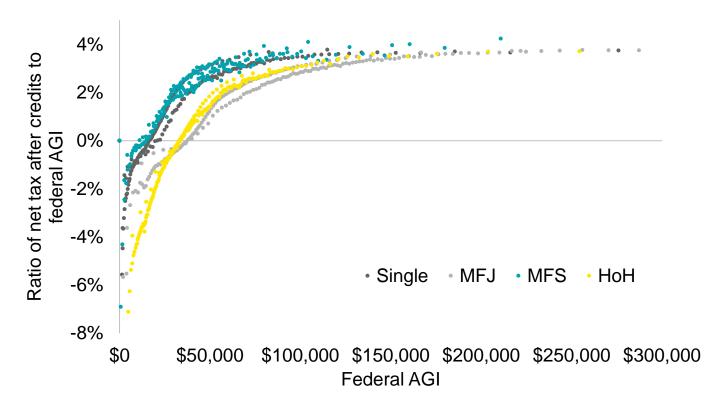
GRT and excise tax paid as a share of income, 2015



Source: Institute on Taxation and Economic Policy, "Who Pays? A Distributional Analysis of the Tax Systems in All 50 States", 2015. Data includes receipts from other selected sales or excise taxes.



Ratio of net tax after refundable credits to federal AGI, FY2015



Source: Author's analysis using data provided by New Mexico Taxation and Revenue Department

Economic efficiency and neutrality key takeaways

- The effective tax rates (ETR) for manufacturing and service industries in New Mexico before the application of the various credits and deductions are higher than the peer averages.
- After the effect of credits, the state ETRs for both manufacturing and services are less than the peer averages.
- The value of incentives taken in New Mexico comprised 4.23% of value-added, on average, which is significantly higher than that of the national and peer state average.

Effective business tax rates pre- and postcredits

| | ETR – pre-credits | | ETR – post c | redits |
|--------------|-------------------|----------|---------------|----------|
| State | Manufacturers | Services | Manufacturers | Services |
| Arizona | 5.8% | 8.3% | 4.2% | 8.0% |
| California | 5.8% | 9.7% | 5.6% | 9.4% |
| Colorado | 6.2% | 8.2% | 6.1% | 8.0% |
| Nevada | 6.8% | 6.7% | 5.6% | 6.1% |
| New Mexico | 9.5% | 12.6% | 3.3% | 6.1% |
| Oklahoma | 10.0% | 12.4% | 9.2% | 12.4% |
| Oregon | 3.6% | 2.3% | 3.5% | 2.2% |
| Texas | 10.9% | 8.1% | 10.8% | 7.9% |
| Utah | 6.8% | 7.0% | 5.7% | 6.7% |
| Peer Average | 7.0% | 7.8% | 6.3% | 7.6% |

Source: Ernst & Young (2014). New Mexico Business Tax Competitive Study: Updated Results – Prepared for the New Mexico Tax Research Institute

Business Incentives as a percent of value added

| | | Job creation | Property tax | Investment | R&D tax | Customized |
|--------------|-------|--------------|--------------|------------|---------|--------------|
| State | Total | tax credit | abatement | tax credit | credit | job training |
| Arizona | 1.06 | 0.39 | 0.00 | 0.21 | 0.29 | 0.16 |
| California | 0.47 | 0.00 | 0.00 | 0.00 | 0.39 | 0.08 |
| Colorado | 0.69 | 0.62 | 0.00 | 0.00 | 0.00 | 0.07 |
| Nevada | 0.23 | 0.00 | 0.19 | 0.00 | 0.00 | 0.04 |
| New Mexico | 4.23 | 1.64 | 1.70 | 0.16 | 0.25 | 0.48 |
| Oregon | 0.70 | 0.56 | 0.00 | 0.00 | 0.13 | 0.00 |
| Texas | 1.24 | 0.51 | 0.58 | 0.00 | 0.07 | 0.08 |
| National | 1.42 | 0.64 | 0.39 | 0.20 | 0.13 | 0.07 |
| average | 1.42 | 0.04 | 0.39 | 0.20 | 0.13 | 0.07 |
| Peer average | 0.73 | 0.35 | 0.13 | 0.04 | 0.15 | 0.07 |

Source: Bartik (2017)

2. Gross Receipts Tax Model

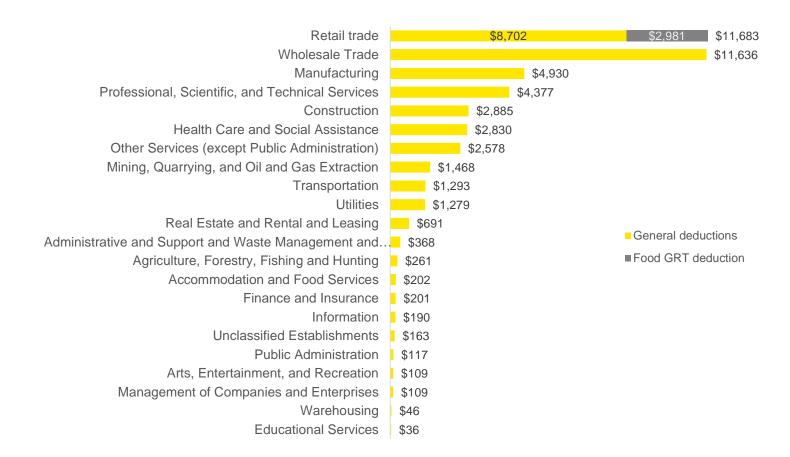


Baseline data in the GRT Model 2016 current law data

| | | | | Taxable | Statewide |
|--------|---|----------|------------|----------|-----------|
| | | Gross | | Gross | Gross Tax |
| NAICS | | Receipts | | Receipts | (before |
| Sector | Description | (RP-80) | Deductions | (RP 80) | credits) |
| 11 | Ag., Forestry, Fishing | \$359 | \$261 | \$98 | \$4 |
| 21 | Mining, Oil & Gas Extraction | \$3,721 | \$1,468 | \$2,252 | \$97 |
| 22 | Utilities | \$3,768 | \$1,279 | \$2,489 | \$107 |
| 23 | Construction | \$8,903 | \$2,885 | \$6,019 | \$259 |
| 31-33 | Manufacturing | \$6,339 | \$4,930 | \$1,410 | \$61 |
| 42 | Wholesale Trade | \$13,505 | \$11,636 | \$1,869 | \$80 |
| 44-45 | Retail Trade | \$22,973 | \$11,683 | \$11,290 | \$485 |
| 48 | Transportation | \$1,871 | \$1,293 | \$578 | \$25 |
| 49 | Warehousing | \$91 | \$46 | \$45 | \$2 |
| 51 | Information | \$2,573 | \$190 | \$2,383 | \$102 |
| 52 | Finance and Insurance | \$474 | \$201 | \$273 | \$12 |
| 53 | Real Estate, Rental, Leasing | \$1,902 | \$691 | \$1,211 | \$52 |
| 54 | Prof., Scient., Technical Services | \$10,343 | \$4,377 | \$5,966 | \$257 |
| 55 | Management of Companies | \$112 | \$109 | \$3 | \$0 |
| 56 | Admin, Waste Management & | | | | |
| | Remediation Services | \$1,637 | \$368 | \$1,269 | \$55 |
| 61 | Educational Services | \$253 | \$36 | \$217 | \$9 |
| 62 | Health Care & Social Assistance | \$5,352 | \$2,830 | \$2,522 | \$108 |
| 71 | Arts, Entertainment, & Recreation | \$355 | \$109 | \$246 | \$11 |
| 72 | Accommodation and Food Services | \$3,943 | \$202 | \$3,741 | \$161 |
| 81 | Other Services | \$6,618 | \$2,578 | \$4,040 | \$174 |
| 92 | Public Administration | \$719 | \$117 | \$602 | \$26 |
| 99 | Unclassified Establishments | \$538 | \$163 | \$375 | \$16 |
| Total | State of New Mevico RP-80 data: data asse | \$96,351 | \$47,453 | \$48,899 | \$2,103 |

Source: Authors analysis using State of New Mexico RP-80 data; data assembled by TRD in September 2017

Top industries by deductions, 2016 (\$millions)



Source: EY analysis using State of New Mexico RP-80 data; Difference between gross receipts and taxable gross receipts

Top industries by state gross receipts tax (before credits), 2016 (\$millions)



Source: EY analysis using State of New Mexico RP-80 data

Baseline data in the Compensating Tax Model, FY2016 current law data (\$ millions)

| | | Compensating | | | |
|--------|---------------------------------------|--------------|----------|----------|---------|
| | | Taxable Base | Assumed | | General |
| NAICS | | (RP-90) (70% | Tax Rate | Assumed | Fund |
| Sector | Description | assumption) | category | Tax Rate | Revenue |
| 11 | Ag., Forestry, Fishing | \$9 | Goods | 5.125% | \$0 |
| 21 | Mining, Oil & Gas Extraction | \$461 | Goods | 5.125% | \$24 |
| 22 | Utilities | \$172 | Goods | 5.125% | \$9 |
| 23 | Construction | \$31 | Goods | 5.125% | \$2 |
| 31-33 | Manufacturing | \$112 | Goods | 5.125% | \$6 |
| 42 | Wholesale Trade | \$92 | Goods | 5.125% | \$5 |
| 44-45 | Retail Trade | \$159 | Goods | 5.125% | \$8 |
| 48 | Transportation | \$38 | Services | 5.000% | \$2 |
| 49 | Warehousing | \$38 | Services | 5.000% | \$2 |
| 51 | Information | \$59 | Services | 5.000% | \$3 |
| 52 | Finance and Insurance | \$7 | Services | 5.000% | \$0 |
| 53 | Real Estate, Rental, Leasing | \$12 | Services | 5.000% | \$1 |
| 54 | Prof., Scient., Technical Services | \$106 | Services | 5.000% | \$5 |
| 55 | Management of Companies | \$0 | Services | 5.000% | \$0 |
| | Admin, Waste Management & Remediation | | | | |
| 56 | Services | \$14 | Services | 5.000% | \$1 |
| 61 | Educational Services | \$2 | Services | 5.000% | \$0 |
| 62 | Health Care & Social Assistance | \$93 | Services | 5.000% | \$5 |
| 71 | Arts, Entertainment, & Recreation | \$5 | Services | 5.000% | \$0 |
| 72 | Accommodation and Food Services | \$29 | Services | 5.000% | \$1 |
| 81 | Other Services | \$76 | Services | 5.000% | \$4 |
| 92 | Public Administration | \$38 | Services | 5.000% | \$2 |
| 99 | Unclassified Establishments | \$0 | Services | 5.000% | \$0 |
| Total | | \$1,552 | | | \$79 |

Source: EY analysis using State of New Mexico RP-90 data

Household & business share of New Mexico taxable gross receipts used in GRT Model

| Industry/sector | Houshold share | Business share |
|--|----------------|----------------|
| Agri., Forestry, Fishing & Hunting | 61% | 39% |
| Mining, Quarrying, Oil & Gas Extraction | 5% | 95% |
| Utilities | 43% | 57% |
| Construction | 25% | 75% |
| Manufacturing | 57% | 43% |
| Wholesale Trade | 39% | 61% |
| Retail trade | 88% | 12% |
| Transportation | 33% | 67% |
| Warehousing | 1% | 99% |
| Information | 46% | 54% |
| Finance & Insurance | 51% | 49% |
| Real Estate, Rental & Leasing | 39% | 61% |
| Professional, Scientific, & Tech. Services | 27% | 73% |
| Mgmt of Companies & Enterprises | 15% | 85% |
| Admin, Support, Waste Mgmt & Remediation Services | 25% | 75% |
| Educational Services | 92% | 8% |
| Health Care & Social Assistance | 67% | 33% |
| Arts, Entertainment, & Recreation | 80% | 20% |
| Accommodation & Food Services | 85% | 15% |
| Other Services (except Public Admin.) | 74% | 26% |
| Public Administration | 96% | 4% |
| Unclassified Establishments | 100% | 0% |
| Non-industry: Wages | 100% | 0% |
| Non-industry: Residential real estate transactions | 100% | 0% |
| Non-industry: Other | 50% | 50% |

Source: EY analysis using 2015 IMPLAN New Mexico input-output data

Tax expenditures estimated using data from TRD and LCS (\$millions)

| Statute | Description | FY16 |
|----------------------|--|-----------|
| 7-9-13.4 | Textbooks Exemption from GRT | \$127.0 |
| 7-9-39 | Fees from Social Organizations Exemption from GRT | \$54.9 |
| 7-9-41.4 | Officiating at NM Activities Association-Sanctioned School Events Exemption from GRT | \$2.5 |
| 7-9-56.2 | Hosting World Wide Web Sites GRT Deduction | \$7.2 |
| 7-9-56.3 | Border Zone Trade-Support Companies GRT Deduction | \$3.9 |
| 7-9-57.1 | Sales through world wide websites | \$1.1 |
| 7-9-57.2 | Software Development Services GRT Deduction | \$34.0 |
| 7-9-60 | Sales to Nonprofit Organizations GRT or GGRT Deduction | \$216.5 |
| 7-9-61.2 | Sales of Tangible Personal Property to Credit Unions GRT Deduction | \$6.9 |
| 7-9-62A; 7-9-77A | Sale and use of aircraft 50% GRT Deduction | \$75.1 |
| 7-9-63 | Publication Sales GRT Deduction | \$5.1 |
| 7-9-64 | Newspapers GRT Deduction | \$144.4 |
| 7-9-73.1 | Hospitals 50% GRT Deduction | \$210.9 |
| 7-9-77.1 | Medical Services GRT Deduction | \$925.4 |
| 7-9-83; 7-9-84 | Jet Fuel GRT and Comp Tax Deduction | \$98.2 |
| 7-9-85 | Fundraising Events GRT Deduction | \$15.7 |
| 7-9-87 | Lottery Retailers GRT Deduction | \$138.6 |
| 7-9-92 | Food GRT Deduction | \$2,981.6 |
| 7-9-93 | Health Care Practitioners GRT Deduction | \$1,018.0 |
| 7-9-95 | Back to School GRT Deduction (Tax Holiday) | \$47.6 |
| 7-9-103 | Services for Electric Transmission Facilities GRT Deduction | \$0.1 |
| 7-9-104 | Nonathletic Special Events GRT Deduction | \$2.5 |
| 7-9-107 | Production or Staging of Professional Contests GRT Deduction | \$1.4 |
| 7-9-108 | Investment Advisory Services GRT Deduction | \$2.0 |
| 7-9-110.1; 7-9-110.2 | Locomotive Engine Fuel GRT and Comp Tax Deduction | \$66.4 |
| 7-9-114 | Advanced Energy GRT and Comp Tax Deduction | \$7.2 |
| | Total state-estimated exemptions and deductions | \$6,187.0 |

Tax expenditures estimated independently by EY, FY2016

| Statute | Description | FY2016 (\$millions) |
|----------------|---|------------------------|
| 7-9-13 | Exemption: governmental agencies | \$4,469.0 |
| 7-9-17 | Exemption: wages | \$34,393.8 |
| 7-9-18.1 | Exemption: food stamps (SNAP) | \$693.4 |
| 7-9-28 | Exemption: occasional sale of property or services | \$4,544.5 |
| 7-9-29 | Exemption: receipts of nonprofits | \$6,500.0 |
| 7-9-46 | Deduction: sales to manufacturers | \$434.4 |
| 7-9-48 | Deduction: sales of service for resale | \$3,318.1 |
| 7-9-51; 7-9-52 | Deduction: sales of services and materials to construction businesses | \$786.3 |
| 7-9-53 | Deduction: sale or lease of real property | \$323.9 |
| 7-9-66.1 | Deduction: certain real estate transactions | \$77.7 |
| 7-9-73.2 | Deduction: prescription drugs | \$1,158.3 |
| 7-9-111 | Hearing and visual aides GRT deduction | \$98.0 |

Source: EY analysis

Using the model to evaluate potential scenarios

- Purpose is to demonstrate the capabilities of the model
- Not modeling specific bills
 - Following slides show revenue impacts for specific tax base changes

Hypothetical Scenario 1

- Removes B2B tax pyramiding by adding in a deduction on the following:
 - Legal services
 - Financial management services
 - Accounting services
 - Engineering services
 - IT services
 - Human resource services
 - Temporary employment services
- Taxes nonprofits by removing exemption and creating a deduction on first \$250K of receipts
- Eliminates medical hold harmless payments to local governments
- Broad GRT base to tax healthcare services and products
 - Repeals the Healthcare practitioners deduction (7-9-93)
 - Repeals deduction for prescription goods (7-9-73.2)
 - Repeals Hospitals 50% GRT Deduction (7-9-73.1)
- Keep deduction for Medical Services paid for through Medicare (7-9-77.1)

GRT Model output for Hypothetical Scenario 1 (\$millions)

2016 law

...

With policy

Percent

| | | baseline | changes | change |
|-----|--|-----------|-----------|---------|
| 1/ | Statewide gross receipts, before exemptions | \$184,569 | \$184,569 | n/a |
| 2/ | Exemptions | \$88,218 | \$81,718 | -7.37% |
| 3/ | Current tax base, after exemptions | \$96,351 | \$102,851 | 6.75% |
| 4/ | Deductions | \$47,453 | \$47,036 | -0.88% |
| 5/ | Taxable gross receipts | \$48,899 | \$55,815 | 14.14% |
| | Total change in taxable gross receipts from policy changes | | \$6,916 | |
| 6/ | Effective tax rate | 4.300% | 3.598% | -16.31% |
| | Statutory tax rate | 5.125% | 4.313% | -15.85% |
| 7/ | Tax revenue before credits | \$2,103 | \$2,008 | -4.48% |
| 8/ | Value of credits | \$174 | \$248 | 42.89% |
| 9/ | Tax revenue after credits | \$1,929 | \$1,760 | -8.75% |
| 10/ | Effective tax rate to make policy revenue neutral | | 3.901% | |
| 11/ | Statutory tax rate to make policy revenue neutral | | 4.675% | |

Top industries by gross change in tax (\$millions)

| Health Care and Social Assistance | | | \$152.36 |
|--|----------|---------|----------|
| Educational Services | | \$37.19 | |
| Arts, Entertainment, and Recreation | | \$3.24 | |
| Non-industry: Wages | | \$0.00 | |
| Non-industry: Residential real estate transactions | | \$0.00 | |
| Non-industry: Non-residential real estate transactions | | \$0.00 | |
| Non-industry: other | | \$0.00 | |
| Management of Companies and Enterprises | -\$0.02 | | |
| Warehousing | -\$0.31 | | |
| Agriculture, Forestry, Fishing and Hunting | -\$0.78 | | |
| Unclassified Establishments | -\$2.51 | | |
| Other Services (except Public Administration) | -\$3.69 | | |
| Transportation | -\$3.99 | | |
| Public Administration | -\$4.03 | | |
| Finance and Insurance | -\$4.59 | | |
| Real Estate and Rental and Leasing | -\$8.11 | | |
| Manufacturing | -\$8.30 | | |
| Wholesale Trade | -\$12.42 | | |
| Admin. and Support and Waste Management | -\$15.01 | | |
| Utilities | -\$16.67 | | |
| Information | -\$17.88 | | |
| Mining, Quarrying, and Oil and Gas Extraction | -\$18.25 | | |
| Accommodation and Food Services | -\$25.06 | | |
| Retail trade | -\$31.17 | | |
| Construction | -\$40.31 | | |
| Professional, Scientific, and Technical Services - | | | |
| | | | |

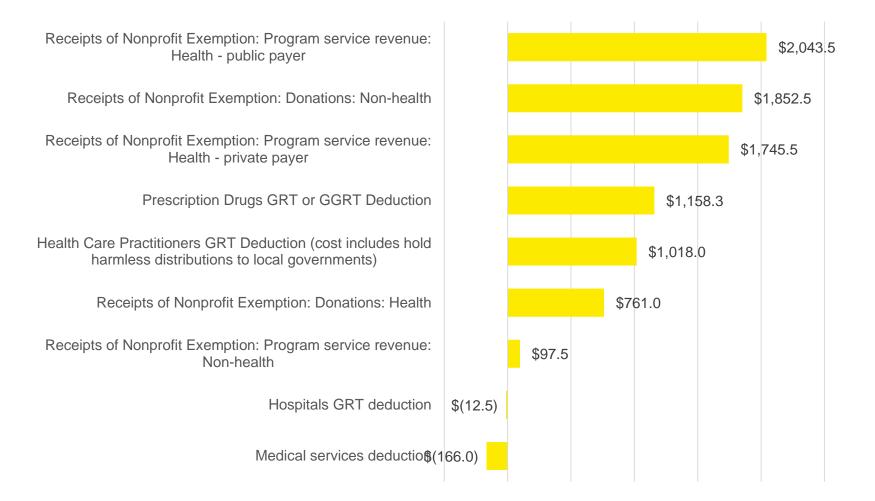
Source: EY estimates

Change in tax before credits by industry (modeled with 3.6% rate change) (\$millions)

| | | Gross Tax Before Credits | | ts |
|-----------|--|--------------------------|-------------|---------|
| | — | 2016 law | With policy | Percent |
| igit NAIC | SNAICS description | baseline | changes | change |
| 11 | Agriculture, Forestry, Fishing and Hunting | \$5 | \$4 | -15.85% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | \$115 | \$97 | -15.85% |
| 22 | Utilities | \$105 | \$88 | -15.85% |
| 23 | Construction | \$254 | \$214 | -15.85% |
| 31-33 | Manufacturing | \$60 | \$51 | -13.94% |
| 42 | Wholesale Trade | \$81 | \$69 | -15.26% |
| 44-45 | Retail trade | \$491 | \$460 | -6.34% |
| 48 | Transportation | \$25 | \$21 | -15.85% |
| 49 | Warehousing | \$2 | \$2 | -15.85% |
| 51 | Information | \$104 | \$86 | -17.25% |
| 52 | Finance and Insurance | \$12 | \$7 | -38.64% |
| 53 | Real Estate and Rental and Leasing | \$51 | \$43 | -15.85% |
| 54 | Professional, Scientific, and Technical Services | \$252 | \$178 | -29.29% |
| 55 | Management of Companies and Enterprises | \$0 | \$0 | -15.85% |
| 56 | Administrative and Support and Waste Management and Remediation Services | \$54 | \$39 | -28.00% |
| 61 | Educational Services | \$9 | \$46 | 405.30% |
| 62 | Health Care and Social Assistance | \$102 | \$254 | 149.74% |
| 71 | Arts, Entertainment, and Recreation | \$10 | \$14 | 31.20% |
| 72 | Accommodation and Food Services | \$158 | \$133 | -15.85% |
| 81 | Other Services (except Public Administration) | \$171 | \$167 | -2.16% |
| 92 | Public Administration | \$25 | \$21 | -15.85% |
| 99 | Unclassified Establishments | \$16 | \$13 | -15.85% |
| | Non-industry: Wages | \$0 | \$0 | n/a |
| | Non-industry: Residential real estate transactions | \$0 | \$0 | n/a |
| | Non-industry: Non-residential real estate transactions | \$0 | \$0 | n/a |
| | Non-industry: other | \$0 | \$0 | n/a |
| ΤΟΤΑ | L | \$2,103 | \$2,008 | -4.48% |

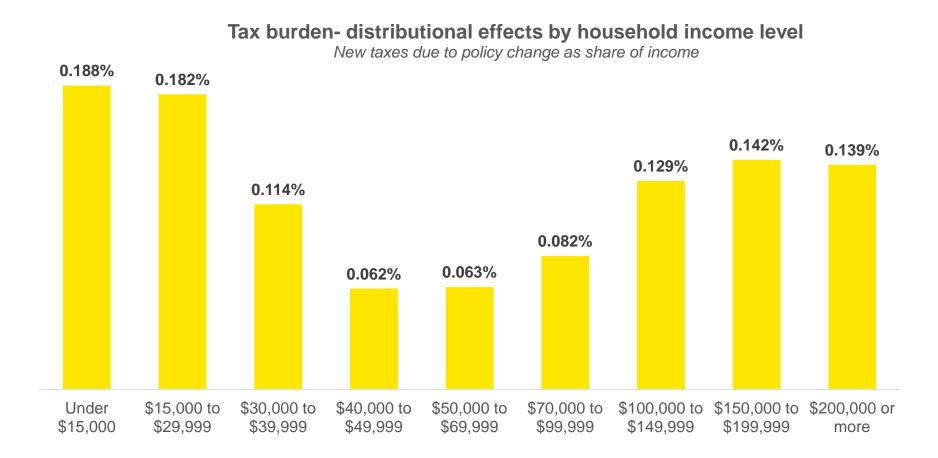
Source: EY estimates

Top exemptions and deductions changed (\$millions)



Source: EY estimates

Model output: Distributional effect of GRT policy change



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Model output: Change in business share of gross receipts tax by industry

| | Business Share of Gross Tax by Industry | | | |
|--|---|-------------|-----------------|--|
| 2-digit | | With policy | Percentage Poin | |
| NAICSNAICS description | 2016 law baseline | changes | Change | |
| 11Agriculture, Forestry, Fishing and Hunting | 39.2% | 39.2% | 0.0% | |
| 21 Mining, Quarrying, and Oil and Gas Extraction | 94.9% | 94.9% | 0.0% | |
| 22Utilities | 57.0% | 57.0% | 0.0% | |
| 23Construction | 75.0% | 75.0% | 0.0% | |
| 31-33Manufacturing | 43.0% | 43.0% | 0.0% | |
| 42Wholesale Trade | 60.9% | 60.9% | 0.0% | |
| 44-45Retail trade | 11.6% | 10.6% | -0.9% | |
| 48Transportation | 67.3% | 67.3% | 0.0% | |
| 49Warehousing | 99.0% | 99.0% | 0.0% | |
| 51Information | 47.3% | 46.4% | -0.9% | |
| 52Finance and Insurance | 43.4% | 22.3% | -21.0% | |
| 53Real Estate and Rental and Leasing | 54.2% | 54.2% | 0.0% | |
| 54Professional, Scientific, and Technical Services | 64.5% | 57.6% | -6.9% | |
| 55Management of Companies and Enterprises | 75.0% | 75.0% | 0.0% | |
| Administrative and Support and Waste Management and | | | | |
| 56Remediation Services | 66.5% | 60.8% | -5.7% | |
| 61Educational Services | 8.5% | 7.9% | -0.6% | |
| 62Health Care and Social Assistance | 33.0% | 33.0% | 0.0% | |
| 71Arts, Entertainment, and Recreation | 20.3% | 23.7% | 3.4% | |
| 72Accommodation and Food Services | 14.9% | 14.9% | 0.0% | |
| 810ther Services (except Public Administration) | 25.8% | 24.0% | -1.8% | |
| 92Public Administration | 4.4% | 4.4% | 0.0% | |
| 99Unclassified Establishments | 0.1% | 0.1% | 0.0% | |
| Non-industry: Wages | n/a | n/a | n/a | |
| Non-industry: Residential real estate transactions | n/a | n/a | n/ | |
| Non-industry: Non-residential real estate transactions | n/a | n/a | n/ | |
| Non-industry: other | n/a | n/a | n/a | |
| FOTAL TOTAL | 42.7% | 38.6% | -4.1% | |

Personal income tax effects of changes to GRT

| Bracket | Bracket lower bound (Single filers) | Bracket upper bound (Single filers) | Original rate | Revenue neutral rate |
|---------|---|---|---------------|-------------------------|
| 1 | \$0 | \$5,500 | 1.70% | 1.91% |
| 2 | \$5,500 | \$11,000 | 3.20% | 3.59% |
| 3 | \$11,000 | \$16,000 | 4.70% | 5.27% |
| 4 | \$16,000 | - | 4.90% | 5.50% |

| | Original rate | Revenue neutral rate |
|---|---------------|-------------------------|
| Effective tax rate on federal adjusted gross income | 1.05% | 1.18% |

Hypothetical Scenario 2

- Expand GRT base to tax wages
- Expand GRT base to value of real estate transactions
- Removes most exemptions and deductions:
 - Deductions for consumer purchases
 - All medical and health care service deductions and credits
 - Removes exemptions on nonprofits
 - Anti-pyramiding deductions
- Lowers gross receipts tax rate to 1% and compensating tax rate to 2% for goods and 1% for services
- Changes to the PIT to only tax income above certain thresholds at a flat 2.5%

GRT Model output for Hypothetical Scenario 2 (\$millions)

| | | 2016 law baseline | With policy changes | Percent change |
|-----|--|-------------------|---------------------|----------------|
| 1/ | Statewide gross receipts, before exemptions | \$184,569 | \$184,569 | n/a |
| 2/ | Exemptions | \$88,218 | \$43,335 | -50.88% |
| 3/ | Current tax base, after exemptions | \$96,351 | \$141,234 | 46.58% |
| 4/ | Deductions | \$47,453 | \$38,675 | -18.50% |
| 5/ | Taxable gross receipts | \$48,899 | \$102,559 | 109.74% |
| | Total change in taxable gross receipts from policy changes | | \$53,660 | |
| 6/ | Effective tax rate | 4.300% | 0.832% | -80.65% |
| | Statutory tax rate | 5.125% | 1.000% | -80.49% |
| 7/ | Tax revenue before credits | \$2,103 | \$853 | -59.41% |
| 8/ | Value of credits | \$174 | \$174 | 0.00% |
| 9/ | Tax revenue after credits | \$1,929 | \$680 | -64.77% |
| 10/ | Effective tax rate to make policy revenue neutral | | 2.050% | 1 |
| 11/ | Statutory tax rate to make policy revenue neutral | | 2.464% | 1 |

Top industries by change in gross tax for GRT (\$millions)

| Non-industry: Wages | | | \$283.52 |
|--|-----------------------|---------|----------|
| Non-industry: Residential real estate transactions | | \$37.46 | +_0010L |
| Non-industry: other | | \$30.78 | |
| Non-industry: Non-residential real estate transactions | | \$4.01 | |
| Management of Companies and Enterprises | -\$0.11 | φ πο τ | |
| Warehousing | -\$1.57 | | |
| Agriculture, Forestry, Fishing and Hunting | -\$3.08 | | |
| Educational Services | -\$5.80 | | |
| Arts, Entertainment, and Recreation | -\$8.26 | | |
| Finance and Insurance | -\$9.55 | | |
| Public Administration | -\$10.17 | | |
| Unclassified Establishments | -\$12.75 | | |
| Transportation | -\$19.40 | | |
| Real Estate and Rental and Leasing | -\$40.62 | | |
| Manufacturing | -\$42.61 | | |
| Admin. and Support and Waste Management | -\$42.93 | | |
| Wholesale Trade | -\$62.85 | | |
| Health Care and Social Assistance | -\$65.36 | | |
| Information | -\$83.37 | | |
| Utilities | -\$83.87 | | |
| Mining, Quarrying, and Oil and Gas Extraction | -\$92.41 | | |
| Accommodation and Food Services | -\$127.19 | | |
| Other Services (except Public Administration) | -\$136.95 | | |
| Professional, Scientific, and Technical Services | -\$201.06 | | |
| Construction | -\$204.40 | | |
| Retail trade - | | | |
| | 4000 <mark>.00</mark> | 6 | |

Source: EY estimates

Change in taxable gross receipts by industry

| | | Taxable Gross Receipts | | |
|---------|--|------------------------|-------------------|---------|
| 2-digit | | 2016 law | With policy | Percent |
| NAIČS | NAICS description | baseline | changes | change |
| 11 | Agriculture, Forestry, Fishing and Hunting | \$97,769,595 | \$188,093,247 | 92.38% |
| 21 | Mining, Quarrying, and Oil and Gas Extraction | \$2,252,165,509 | \$2,277,662,049 | 1.13% |
| 22 | Utilities | \$2,489,070,911 | \$2,581,759,217 | 3.72% |
| 23 | Construction | \$6,018,929,548 | \$6,051,581,383 | 0.54% |
| 31-33 | Manufacturing | \$1,409,582,191 | \$2,054,584,013 | 45.76% |
| 42 | Wholesale Trade | \$1,869,248,476 | \$2,177,374,679 | 16.48% |
| 44-45 | Retail trade | \$11,290,027,799 | \$16,561,911,824 | 46.70% |
| 48 | Transportation | \$577,856,791 | \$676,360,454 | 17.05% |
| 49 | Warehousing | \$44,894,040 | \$44,894,040 | 0.00% |
| 51 | Information | \$2,383,314,758 | \$2,395,585,051 | 0.51% |
| 52 | Finance and Insurance | \$273,106,208 | \$275,136,593 | 0.74% |
| 53 | Real Estate and Rental and Leasing | \$1,211,049,677 | \$1,279,120,488 | 5.62% |
| 54 | Professional, Scientific, and Technical Services | \$5,965,979,723 | \$6,184,473,621 | 3.66% |
| 55 | Management of Companies and Enterprises | \$3,252,957 | \$3,252,957 | 0.00% |
| 56 | Administrative and Support and Waste Management and Remediation Services | \$1,269,042,536 | \$1,295,531,143 | 2.09% |
| 61 | Educational Services | \$217,197,337 | \$409,920,148 | 88.73% |
| 62 | Health Care and Social Assistance | \$2,521,892,110 | \$4,622,499,758 | 83.29% |
| 71 | Arts, Entertainment, and Recreation | \$245,844,969 | \$257,665,434 | 4.81% |
| 72 | Accommodation and Food Services | \$3,741,401,147 | \$3,745,058,301 | 0.10% |
| 81 | Other Services (except Public Administration) | \$4,040,003,293 | \$4,091,234,572 | 1.27% |
| 92 | Public Administration | \$601,877,082 | \$1,851,268,487 | 207.58% |
| 99 | Unclassified Establishments | \$375,010,860 | \$375,487,124 | 0.13% |
| | Non-industry: Wages | \$0 | \$34,393,801,000 | n/a |
| | Non-industry: Residential real estate transactions | \$0 | \$4,544,527,142 | n/a |
| | Non-industry: Non-residential real estate transactions | \$0 | \$485,911,806 | n/a |
| | Non-industry: other | \$0 | \$3,734,320,622 | n/a |
| TOTAL | | \$48,898,517,518 | \$102,559,015,155 | 109.74% |

Top exemptions and deductions changed (\$millions)

| Wages - exemption | | \$34,393.8 |
|---|-----------|------------|
| Occasional sale of property or services | \$4,544.5 | |
| Deduction: Sales of service for resale | \$3,318.1 | |
| Food GRT Deduction (cost includes hold harmless distributions to local governments) | \$2,981.6 | |
| Receipts of Nonprofit Exemption: Program service revenue: Health - public payer | \$2,043.5 | |
| Receipts of Nonprofit Exemption: Program service revenue: Health - private payer | \$1,745.5 | |
| Exclusion of Government Hospital Receipts from GRT | \$1,249.4 | |
| Prescription Drugs GRT or GGRT Deduction | \$1,158.3 | |
| Medical Services GRT Deduction | \$806.3 | |
| Deduction: Sales of services and materials to construction businesses | \$786.3 | |

Source: EY estimates

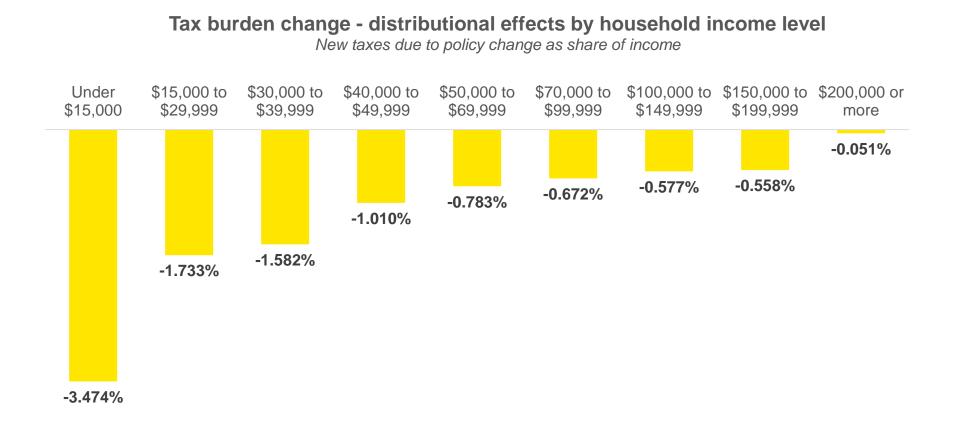
Overall model output – GRT, CT, and PIT (\$millions)

| | GRT/Compensating tax | | Personal income tax | |
|---------------------------------|------------------------------------|-----------|---------------------|-----------|
| | | | reisonal meo | |
| Tax base | | | | |
| | Current tax base, after exemptions | \$142,786 | Federal AGI | \$127,965 |
| | | | Deductions and | |
| | Deductions | \$38,675 | exemptions | \$36,195 |
| | Total taxable gross receipts | \$104,111 | Taxable income | \$91,770 |
| Tax rates | | | | |
| | GRT rate | 1.000% | Bracket 1 | 0.00% |
| | GRT local distribution percentage | 24% | Bracket 2 | 2.50% |
| | Compensating tax rate on goods | 2.000% | | |
| | Compensating tax rate on services | 1.000% | | |
| Baseline - Tax revenue after ci | redits | | | |
| | GRT | \$1,929 | | |
| | Compensating tax | \$79 | | |
| | Total GRT+compensating tax | \$2,008 | Income tax | \$1,340 |
| Policy change - Tax revenue a | | | | |
| | GRT | \$680 | | |
| | Compensating tax | \$26 | | |
| | Total GRT+compensating tax | \$705 | Income tax | \$58 |
| Change in tax revenue | | · | | · · · |
| | GRT | -\$1,249 | | |
| | Compensating tax | -\$53 | | |
| | Total GRT+compensating tax | -\$1,302 | Income tax | -\$1,282 |
| Percent change in tax revenue | | | | |
| | GRT | -64.77% | | |
| | Compensating tax | -67.20% | | |
| | Total GRT+compensating tax | -64.86% | Income tax | -95.68% |
| | | | Total change in | |
| | Overall revenue neutral? | NO | revenue | -\$2,584 |

Overall model output – GRT, CT, and PIT (\$millions) – at 2% GRT rate

| | OBT/Common pacting tou | | Personal income tax | |
|------------------------------|------------------------------------|-----------|---------------------|-----------|
| | GRT/Compensating tax | | Personal Inco | ometax |
| Tax base | | | | |
| | Current tax base, after exemptions | \$142,786 | Federal AGI | \$127,965 |
| | | | Deductions and | |
| | Deductions | \$38,675 | exemptions | \$36,195 |
| | Total taxable gross receipts | \$104,111 | Taxable income | \$91,770 |
| Tax rates | | | | |
| | GRT rate | 2.000% | Bracket 1 | 0% |
| | GRT local distribution percentage | 24% | Bracket 2 | 2.5% |
| | Compensating tax rate on goods | 2.000% | | |
| | Compensating tax rate on services | 1.000% | | |
| Baseline - Tax revenue after | r credits | | | |
| | GRT | \$1,929 | | |
| | Compensating tax | \$79 | | |
| | Total GRT+compensating tax | \$2,008 | Income tax | \$1,340 |
| Policy change - Tax revenue | e after credits | | | |
| | GRT | \$1,533 | | |
| | Compensating tax | \$26 | | |
| | Total GRT+compensating tax | \$1,559 | Income tax | \$58 |
| Change in tax revenue | | | | |
| | GRT | -\$396 | | |
| | Compensating tax | -\$53 | | |
| | Total GRT+compensating tax | -\$449 | Income tax | -\$1,282 |
| Percent change in tax rever | nue | | | |
| | GRT | -20.52% | | |
| | Compensating tax | -67.20% | | |
| | Total GRT+compensating tax | -22.35% | Income tax | -95.68% |
| | | | Total abanga in | |
| | Overall revenue neutral? | | Total change in | ¢4.70/ |
| | Overall revenue neutral? | NO | revenue | -\$1,731 |

Distributional effects of GRT policy change



Business share of gross receipts tax by industry

| | Business Share of Gross Tax by Industry | | |
|--|---|---------------------|------------------|
| | | | Percentage Point |
| git NAICSNAICS description | 2016 law baseline | With policy changes | Change |
| 11Agriculture, Forestry, Fishing and Hunting | 77.3% | 88.2% | 10.9% |
| 21 Mining, Quarrying, and Oil and Gas Extraction | 99.9% | 99.9% | 0.0% |
| 22Utilities | 60.0% | 61.4% | 1.4% |
| 23Construction | 100.0% | 100.0% | 0.0% |
| 31-33Manufacturing | 71.7% | 79.8% | 8.1% |
| 42Wholesale Trade | 60.9% | 65.8% | 4.9% |
| 44-45Retail trade | 11.6% | 8.6% | -2.9% |
| 48Transportation | 67.3% | 72.1% | 4.7% |
| 49Warehousing | 99.0% | 99.0% | 0.0% |
| 51Information | 63.1% | 63.1% | 0.0% |
| 52Finance and Insurance | 57.8% | 58.1% | 0.3% |
| 53Real Estate and Rental and Leasing | 72.2% | 73.7% | 1.5% |
| 54Professional, Scientific, and Technical Services | 85.9% | 86.4% | 0.5% |
| 55Management of Companies and Enterprises | 100.0% | 100.0% | 0.0% |
| 56Administrative and Support and Waste Management and Remediation Services | 88.7% | 88.9% | 0.2% |
| 61Educational Services | 8.5% | 5.6% | -2.9% |
| 62Health Care and Social Assistance | 33.0% | 32.7% | -0.3% |
| 71Arts, Entertainment, and Recreation | 20.3% | 20.9% | 0.7% |
| 72Accommodation and Food Services | 14.9% | 14.9% | 0.0% |
| 810ther Services (except Public Administration) | 25.8% | 25.6% | -0.2% |
| 92Public Administration | 4.4% | 68.9% | 64.5% |
| 99Unclassified Establishments | 0.1% | 0.1% | 0.0% |
| Non-industry: Wages | n/a | 0.0% | n/a |
| Non-industry: Residential real estate transactions | n/a | 0.0% | n/a |
| Non-industry: Non-residential real estate transactions | n/a | 100.0% | n/a |
| Non-industry: other | n/a | 94.0% | n/a |
| TOTAL | 51.5% | 32.1% | -19.3% |

Personal income tax increase required (at 2% GRT rate)

| Bracket | Bracket lower bound (single filer) | Bracket upper bound (single filer) | Original rate | Revenue neutral rate |
|---------|------------------------------------|---------------------------------------|---------------|----------------------|
| 1 | \$0 | \$5,500 | 0% | 4.82% |
| 2 | \$5,500 | \$11,000 | 0% | 9.07% |
| 3 | \$11,000 | \$16,000 | 0% | 13.33% |
| 4 | \$16,000 | \$189,300 | 0% | 13.89% |
| 5 | \$189,300 | - | 2.5% | 13.89% |

| | Original rate | Revenue neutral rate |
|---|---------------|-------------------------|
| Effective tax rate on federal adjusted gross income | 1.05% | 1.40% |

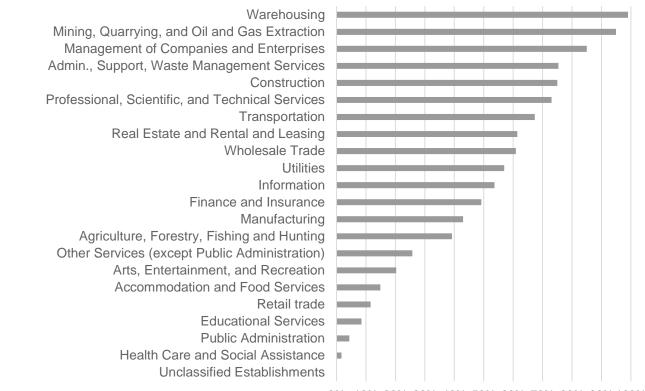
Other insights

- Removing all deductions shown as taken by the RP-80 data in 2016 implies that the same state tax revenue can be generated at a 2.2% rate.
- Eliminating main anti-pyramiding provisions requires a 14% decrease in the PIT rates to be revenue neutral
- Removing nonprofit exemption for health care providers would not raise revenue unless health care deductions are repealed simultaneously.
- Repealing deductions and exemptions for health care industry would create non-compliance with 6% safeharbor taxation for Medicaid reimbursements.

Pyramiding in a tax system

- Occurs when there are several transactions bringing a good or service to the ultimate consumer
- A function of the number of transactions and the level of value added at each stage
- When an input good is taxed, it raises the subsequent price of that input as it moves up the supply chain and is part of the next transaction
- Goods and services subject to more stages of production will have higher degree of pyramiding

Estimated share of sales to businesses by industry



0% 10% 20% 30% 40% 50% 60% 70% 80% 90% 100%

Source: EY analysis using 2015 IMPLAN model of New Mexico

Estimate of reduction in New Mexico Gross Receipts Tax for business sales due to current exemptions and deductions, FY2016

| | Purchases by | Potential | Estimated | Tax educed due to exemptions & |
|---|--------------|---------------------|---------------------|--------------------------------|
| Selling industry | Businesses | Business Tax | Business Tax | deductions |
| Agriculture, Forestry, Fishing and Hunting | \$1,340 | \$58 | \$2 | \$56 |
| Mining, Quarrying, and Oil and Gas Extraction | \$2,860 | \$123 | \$92 | \$31 |
| Utilities | \$1,721 | \$74 | \$61 | \$13 |
| Construction | \$6,975 | \$300 | \$194 | \$106 |
| Manufacturing | \$2,353 | \$101 | \$26 | \$75 |
| Wholesale Trade | \$2,566 | \$110 | \$49 | \$61 |
| Retail trade | \$1,068 | \$56 | \$56 | \$0 |
| Transportation | \$1,777 | \$76 | \$17 | \$60 |
| Warehousing | \$722 | \$31 | \$2 | \$29 |
| Information | \$2,481 | \$107 | \$55 | \$52 |
| Finance and Insurance | \$3,961 | \$170 | \$6 | \$165 |
| Real Estate, Rental and Leasing | \$6,113 | \$263 | \$32 | \$231 |
| Professional, Scientific, Technical Services | \$6,808 | \$293 | \$187 | \$105 |
| Management of Companies and Enterprises | \$870 | \$37 | \$0 | \$37 |
| Admin., Support, Waste Management | \$2,604 | \$112 | \$41 | \$71 |
| Educational Services | \$43 | \$2 | \$1 | \$1 |
| Health Care and Social Assistance | \$115 | \$5 | \$2 | \$3 |
| Arts, Entertainment, and Recreation | \$285 | \$12 | \$2 | \$10 |
| Accommodation and Food Services | \$577 | \$25 | \$24 | \$1 |
| Other Services (except Public Administration) | \$813 | \$45 | \$45 | \$0 |
| Public Administration | \$149 | \$6 | \$1 | \$5 |
| Unclassified Establishments | \$0 | \$0 | \$0 | \$0 |
| TOTAL | \$46,201 | \$2,007 | \$894 | \$1,112 |

Source: Authors analysis using 2015 IMPLAN Model of New Mexico and RP-80 data for FY2016

4. Personal income tax



Simulation Model

- Excel-based
- Data consist of tabulations of tax returns,
 - partitioned by filing status, PIT-B status, and itemizer status;
 - then tabulated by percentile rank within partition.
- Capabilities include simulating changes to
 - the bracket and rate structure,
 - exemptions and deductions (though not to specific itemized deductions), and
 - (to a limited degree) credits and adjustments from secondary forms.
- Simulation results are be applied to a consensus baseline forecast under current law to estimate future fiscal effects.
- Output also includes effects on taxpayers by filing status and income (FAGI) level.

Summary of PIT Model data

| | | Deduction | Number of | | Total Fed AGI | |
|------------|----------------------|--------------|-----------|-------|---------------|-------|
| Partition | Filing Status | Туре | Returns | Share | (\$ millions) | Share |
| Non-PIT-B | Filers: | | | | | |
| 1 | Single | Std | 175,706 | 25.3% | \$5,647.4 | 4.4% |
| 2 | Single | Std (1040EZ) | 45,902 | 6.6% | 1,395.7 | 1.1% |
| 3 | Married Joint | Std | 117,513 | 17.0% | 8,950.9 | 7.0% |
| 4 | Married Joint | Std (1040EZ) | 3,804 | 0.5% | \$236.8 | 0.2% |
| 5 | Married Separate | Std | 3,972 | 0.6% | 164.2 | 0.1% |
| 6 | Head of Household | Std | 52,181 | 7.5% | 2,202.6 | 1.7% |
| 7 | Single Item | | 62,142 | 9.0% | 4,823.1 | 3.8% |
| 8 | Married Joint | | 91,452 | 13.2% | 14,113.6 | 11.0% |
| 9 | Married Separate Ite | | 2,579 | 0.4% | 202.3 | 0.2% |
| 10 | Head of Household | Item | 14,662 | 2.1% | 1,164.4 | 0.9% |
| Subtotal | | | 569,913 | 82.2% | \$38,901.0 | 30.4% |
| PIT-B File | 'S: | | | | | |
| 11 | Single | Std | 23,634 | 3.4% | \$1,042.2 | 0.8% |
| 12 | Single | Std (1040EZ) | 4,879 | 0.7% | 298.8 | 0.2% |
| 13 | Married Joint | Std | 22,425 | 3.2% | 2,016.0 | 1.6% |
| 14 | Married Joint | Std (1040EZ) | 495 | 0.1% | 31.7 | 0.0% |
| 15 | Married Separate | Std | 726 | 0.1% | 57.3 | 0.0% |
| 16 | Head of Household | Std | 3,921 | 0.6% | 221.4 | 0.2% |
| 17 | Single | Item | 17,787 | 2.6% | 14,663.6 | 11.5% |
| 18 | Married Joint | Item | 45,353 | 6.5% | 64,429.9 | 50.3% |
| 19 | Married Separate | Item | 1,356 | 0.2% | 4,889.2 | 3.8% |
| 20 | Head of Household | Item | 2,717 | 0.4% | 1,414.1 | 1.1% |
| Subtotal | | | 123,293 | 17.8% | \$89,064.4 | 69.6% |
| Total | | | 693,206 | 100% | \$127,965.4 | 100% |

Source: Authors summary of personal income tax aggregate data provided by New Mexico Taxation and Revenue Department, 2017

Summary of PIT Model data

| | | | | | Total NM Tax, | | |
|-------------|-------------------|--------------|--------------------------|-------|-----------------|-------|--|
| | | Deduction | Total NM Taxable | | net of all | | |
| Partition | Filing Status | Туре | Income | Share | credits | Share | |
| Non-PIT-B | Filers: | | | | | | |
| 1 | Single | Std | \$3,590,729,712 | 4.0% | \$134,002,596 | 10.3% | |
| 2 | Single | Std (1040EZ) | 854,451,215 | 0.9% | 31,050,541 | 2.4% | |
| 3 | Married Joint | Std | 5,750,918,036 | 6.3% | 233,138,543 | 17.9% | |
| 4 | Married Joint | Std (1040EZ) | 151,390,762 | 0.2% | 5,998,634 | 0.5% | |
| 5 | Married Separate | Std | 115,692,767 | 0.1% | 4,849,930 | 0.4% | |
| 6 | Head of Household | Std | 1,013,749,121 | 1.1% | 29,916,395 | 2.3% | |
| 7 | Single | Item | 3,600,723,191 | 4.0% | 153,473,040 | 11.8% | |
| 8 | Married Joint | Item | Item 10,767,473,863 11 | | 474,462,786 | 36.4% | |
| 9 | Married Separate | Item | 150,783,572 | 0.2% | 6,687,091 | 0.5% | |
| 10 | Head of Household | Item | 767,698,469 | 0.8% | 31,069,284 | 2.4% | |
| Subtotal | | | \$26,763,610,708 | 29.5% | \$1,104,648,840 | 84.8% | |
| PIT-B Filer | 'S: | | | | | | |
| 11 | Single | Std | \$752,006,195 | 0.8% | \$10,738,359 | 0.8% | |
| 12 | Single | Std (1040EZ) | (1040EZ) 211,558,873 0.2 | | 2,322,505 | 0.2% | |
| 13 | Married Joint | Std | 1,403,121,649 | 1.5% | 20,778,944 | 1.6% | |
| 14 | Married Joint | Std (1040EZ) | 19,597,095 | 0.0% | 325,207 | 0.0% | |
| 15 | Married Separate | Std | 48,884,356 | 0.1% | 497,260 | 0.0% | |
| 16 | Head of Household | Std | 131,693,728 | 0.1% | 1,759,473 | 0.1% | |
| 17 | Single | Item | 9,938,955,691 10.9% | | 29,758,319 | 2.3% | |
| 18 | Married Joint | Item | 47,026,842,438 | 51.7% | 123,347,558 | 9.5% | |
| 19 | Married Separate | Item | 3,571,282,835 3.9% | | 4,320,755 | 0.3% | |
| 20 | Head of Household | Item | 1,009,791,660 | 1.1% | 3,634,031 | 0.3% | |
| Subtotal | | | \$64,113,734,520 | 70.5% | \$197,482,411 | 15.2% | |
| Total | | | \$90,877,345,228 | 100% | \$1,302,131,251 | 100% | |

Source: Authors summary of personal income tax aggregate data provided by New Mexico Taxation and Revenue Department, 2017

Establishing Post-TCJA Baseline

- Eliminate personal exemptions
- Increase standard deduction (SD) amounts (using TCJA amounts, adjusted to 2015 \$)
- Adjust itemized deductions (ID) for TCJA changes
 - Preliminary assumptions are rough approximations based on IRS Statistics of Income data.
 - A full analysis using tabulations of detailed ID data from NMTRD should be done to provide for more accurate adjustments.
- Account for ID versus SD choices at filer group level after TCJA changes; switch if proforma SD > proforma ID.

Establishing Post-TCJA Baseline

| | | | | | | | | Change in Final Net Tax from Pre-TCJA Sim | | | |
|--------|--------|------|-----|---------|-------|-----------------|-------|---|--------------|---------|--|
| Part_ | | Ded_ | | | | | | | | | |
| Code | F_Stat | Туре | R_B | N_Rtrns | Share | Ttl Fed AGI | Share | Mean | Total | Total % | |
| 1 | S | S | R | 175,706 | 25.3% | 5,647,405,915 | 4.4% | (87) | (15,360,951) | -11.5% | |
| 2 | S | SEZ | R | 45,902 | 6.6% | 1,395,719,369 | 1.1% | (180) | (8,244,761) | -26.6% | |
| 3 | MJ | S | R | 117,513 | 17.0% | 8,950,881,160 | 7.0% | 23 | 2,698,278 | 1.2% | |
| 4 | MJ | SEZ | R | 3,804 | 0.5% | 236,778,656 | 0.2% | (430) | (1,637,253) | -27.3% | |
| 5 | MS | S | R | 3,972 | 0.6% | 164,237,647 | 0.1% | (8) | (31,759) | -0.7% | |
| 6 | Н | S | R | 52,181 | 7.5% | 2,202,620,688 | 1.7% | 53 | 2,763,759 | 9.4% | |
| 7 | S | Ι | R | 62,142 | 9.0% | 4,823,105,089 | 3.8% | 240 | 14,888,418 | 9.7% | |
| 8 | MJ | Ι | R | 91,452 | 13.2% | 14,113,588,773 | 11.0% | 423 | 38,661,365 | 8.2% | |
| 9 | MS | Ι | R | 2,579 | 0.4% | 202,308,115 | 0.2% | 252 | 648,843 | 9.7% | |
| 10 | Н | Ι | R | 14,662 | 2.1% | 1,164,406,532 | 0.9% | 319 | 4,684,061 | 15.1% | |
| Subtot | al | | R | 569,913 | 82.2% | 38,901,051,943 | 30.4% | 69 | 39,070,001 | 3.5% | |
| 11 | S | S | В | 23,634 | 3.4% | 1,042,203,902 | 0.8% | (39) | (914,411) | -8.6% | |
| 12 | S | SEZ | В | 4,879 | 0.7% | 298,776,465 | 0.2% | (90) | (436,678) | -18.9% | |
| 13 | MJ | S | В | 22,425 | 3.2% | 2,016,018,343 | 1.6% | 10 | 226,939 | 1.1% | |
| 14 | MJ | SEZ | В | 495 | 0.1% | 31,687,350 | 0.0% | (186) | (92,278) | -28.7% | |
| 15 | MS | S | В | 726 | 0.1% | 57,305,813 | 0.0% | (11) | (8,153) | -1.7% | |
| 16 | Н | S | В | 3,921 | 0.6% | 221,447,910 | 0.2% | 35 | 137,345 | 8.0% | |
| 17 | S | I | В | 17,787 | 2.6% | 14,663,631,865 | 11.5% | 127 | 2,266,683 | 7.3% | |
| 18 | MJ | I | В | 45,353 | 6.5% | 64,429,940,693 | 50.3% | 191 | 8,671,204 | 7.0% | |
| 19 | MS | Ι | В | 1,356 | 0.2% | 4,889,218,570 | 3.8% | 149 | 201,386 | 4.7% | |
| 20 | Н | Ι | В | 2,717 | 0.4% | 1,414,138,299 | 1.1% | 198 | 537,409 | 14.8% | |
| Subtot | al | | В | 123,293 | 17.8% | 89,064,369,210 | 69.6% | 86 | 10,589,445 | 5.3% | |
| Total | | | | 693,206 | 100% | 127,965,421,153 | 100% | 72 | 49,659,447 | 3.8% | |

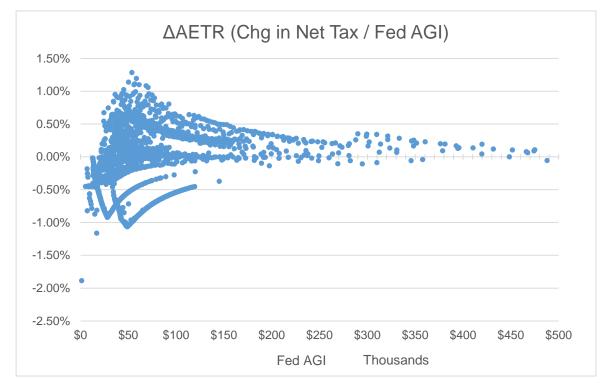
- Parameters for tax change scenarios
 - Standard Deduction Amounts (2015-equivalent amounts)
 - Low/Middle-Income Exemption Worksheet
 - Medical Care Expense Deduction Worksheet
 - Tax Rate Schedules
 - Option to increase number of brackets from four to up to seven
 - Adjust bracket thresholds
 - Adjust marginal tax rates
 - Other Tax Expenditure Items appearing as line items on
 - ► PIT-1
 - PIT-ADJ
 - PIT-RC

Applying simulation results to Consensus Forecast

| Personal Income Tax Revenues | | | | | | | | |
|---|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| | Actual | | | Estim | ated | I | | |
| (\$ millions) | 2015 | 2016 | 2017 | 2018 | 2019 | 2020 | 2021 | 2022 |
| Dec 2017 Consensus by FY | \$1,339.7 | \$1,327.2 | \$1,380.7 | \$1,381.1 | \$1,408.8 | \$1,434.7 | \$1,462.7 | \$1,484.7 |
| % change Yr-Yr | | -0.9% | 4.0% | 0.0% | 2.0% | 1.8% | 2.0% | 1.5% |
| Post-TCJA Sim | | | | | | | | |
| % change in tax liability from pre- TCJA simulated | 3.82% | | | | | | | |
| % change in FY collections from baseline | | | | | 1.75% | 3.66% | 3.82% | 3.82% |
| Proforma Change in Revenue | l | | | | \$24.7 | \$52.5 | \$55.9 | \$56.7 |
| Proforma Revenue Projection | \$1,339.7 | \$1,327.2 | \$1,380.7 | \$1,381.1 | \$1,433.5 | \$1,487.2 | \$1,518.6 | \$1,541.4 |
| % change Yr-Yr | <u> </u> | -0.9% | 4.0% | 0.0% | 3.8% | 3.7% | 2.1% | 1.5% |
| Tax Changes Sim | | | | | | | | |
| % change in tax liability from pre- TCJA simulated | 4.48% | | | | | | | |
| % change in FY collections from baseline | | | | | 2.06% | 4.30% | 4.48% | 4.48% |
| Proforma Change in Revenue | | | | | \$29.0 | \$61.6 | \$65.6 | \$66.6 |
| Proforma Revenue Projection | \$1,339.7 | \$1,327.2 | \$1,380.7 | \$1,381.1 | \$1,437.8 | \$1,496.3 | \$1,528.3 | \$1,551.3 |
| % change Yr-Yr | | -0.9% | 4.0% | 0.0% | 4.1% | 4.1% | 2.1% | 1.5% |

Distributional Effects Graphics

Average Effective Tax Rates, levels and changes



Questions?