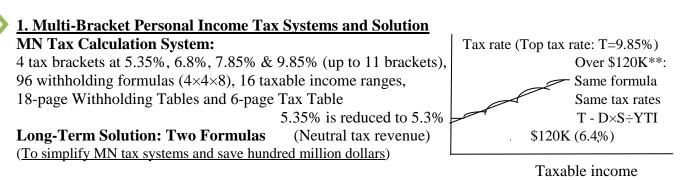
Tax Problem and Solution with One Slope Formula for Minnesota

<u>Summary:</u> One simple slope formula can be used to resolve MN income tax, homestead tax credit refund, working family credit, and corporate tax problems. Existing 4 (up to 11) income tax brackets, 96 withholding formulas ($4 \times 4 \times 8$), 16 taxable income ranges, 8-page Tax Table, and 18-page Withholding Tables can be matched and simplified with 15 benefits to save \$165 million (Table 6*).

* Research paper: <u>www.scitcentral.com/documents/be5648da4795008d9893b752b9226c8f.pdf</u> <u>https://taxsimplecenter.net/statetaxsimplification.html</u>

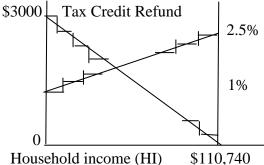


2. MN has Homestead Credit Refund (HCR) for homeowners and renters with 30 brackets, which has many brackets and cliff problem. For homeowner's household income (HI), there are percentages 1%-2.5%: \$0-1,699 is at 1.0% (maximum refund \$3,000), ...more brackets, \$80,820-85,359 is at 2.0% (max refund \$1,600), ... more brackets, and \$106,600-110,739 is at 2.5%. There is no credit if the household income is \$110,740 or more.

One slope formula for HCR and another one for maximum refund can be designed to match simply. The 30 brackets are simplified to 1 (**96% reduction**).

Two Formulas:

$$\label{eq:HCR} \begin{split} &\textbf{HCR} = (0.01 + \text{HI} \div 7,382,667) \times \text{HI or} \\ &\textbf{Maximum Refund} = 3,000 - \text{HI} \div 36.9133 \text{ (Which one is less)} \\ &\text{(Neutral tax revenue change)} \end{split}$$



3. Working Family Credit (WFC) and Simplification

MN has Working Family Credit with 5 pages and 4,000 WFC numbers, which can be simplified.

MN Working Family Credit Simplification (S1=6,000 for Married Filing Jointly or S1=0 for all others)

| Child# | Line 1 or 3 of | Line 1 or 3 | Working Family Credit (WFC) rate | Rate | Range | WFC = |
|--------|-------------------|-------------|--------------------------------------|------|-----------|--------|
| | Schedule range | MIWFC | of L (Line $1/3$) by linear formula | | check | L*Rate |
| 0 | 0 - (23,000 + S1) | | 0.03 (1-L÷ (23,000+S1)) | | 0.03 - 0 | |
| 1 | 0 - (42,000 + S1) | | 0.12 (1-L÷ (42,000+S1)) | | 0.12 - 0 | |
| 2 | 0 - (48,000 + S1) | | 0.135 (1-L÷ (48,000+S1)) | | 0.135 - 0 | |
| ≥3 | 0 - (52,000 + S1) |) | 0.15 (1-L÷ (52,000+S1)) | | 0.15 - 0 | |
| | | | | | | |

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<u>1. Bill Draft for Individual Income Tax Simplification:</u>

For all individuals regardless of filing status, the tax shall be computed with the following formula:

| If the yearly taxable income (YTI) is: | The tax rate and tax are: | 2021 Tax range check: |
|--|-------------------------------------|-----------------------|
| Not over \$120,000×S | $(YTI \div S \div C + B) \times TI$ | 5.35% - 6.4% |
| Over \$120,000×S | (T - (D×S \div YTI)) × TI | 6.4% - 9.85% |

Where: B = bottom tax rate = 0.0535 (5.35%) in 2021.

C = 11,428,571 from 120,000 to divide the 1st tax rate range difference (0.064-0.0535) or 10,909,091 from 120,000 ÷ (0.064-0.053) for neutral tax revenue change.

D = 4,140 from 120,000 to multiply the 2-nd tax rate range difference (0.0985-0.064).

F = the number of filing periods (52, 26, 24, 12, 4, 2, 1 or 364 for weekly, bi-weekly, semi-monthly, monthly, quarterly, semi-annual, annual or daily filing periods).

S = status number (2 for Married filing jointly or qualifying widow(er), 1 for Married filing separately, 1.2 for Single or 1.5 for Head of Household).

Tax rate ranges = 5.35% to 6.4% for YTI ÷ S not over \$120,000 and 6.4% to 9.85% for over \$120,000 in 2021. T = top tax rate = 0.0985 (9.85%) in 2021.

TI = taxable income.

 $YTI = yearly taxable income = TI \times F.$

(** For over \$120,000×S, the same tax formula is converted into tax rate and tax format.)

2. Bill Draft for Homestead Credit Refund (HCR) Simplification:

If the homeowner's household income (HI) is less than \$110,740, 1%-2.5% of homeowner' household income is allowed as homestead credit refund. Its maximum refund \$3,000, which is reduced when the household income (HI) is increased. The homestead credit refund shall be computed with the following two formulas and which one is less:

| If the household income (HI) is: | The credit refund is: | The maximum credit refund is: |
|----------------------------------|-----------------------------|--------------------------------------|
| Not over \$110,740 | . (HI÷7,382,667 +0.01) × HI | $(1 - HI \div 110,740) \times 3,000$ |
| Over \$110,740 | No deduction and enter 0 | No deduction and enter 0 |

3. Bill Draft for Working Family Credit (WFC) Simplification:

The working family credits rate and credit shall be computed with the following formula. There are two filing status (S1). For Married Filing Jointly: S1=6,000 or Other Than Married Filing Jointly: S1=0.

| Child # | If the Line 1 or 3 (L) of M1WFC is: | The credit rate and credit are: |
|-----------|-------------------------------------|---|
| 0 | Not over \$23,000+S1 | $(1 - L \div (23,000 + S1)) \times 0.03 \times L$ |
| | Over \$23,000+S1 | No deduction and enter 0 |
| 1 | Not over \$42,000+S1 | $(1 - L \div (42,000 + S1)) \times 0.12 \times L$ |
| | Over \$42,000+S1 | No deduction and enter 0 |
| 2 | Not over \$48,000+S1 | $(1 - L \div (48,000 + S1)) \times 0.135 \times L$ |
| | Over \$48,000+S1 | No deduction and enter 0 |
| 3 or more | Not over \$52,000+S1 | . $(1 - L \div (52,000 + S1)) \times 0.15 \times L$ |
| | Over \$52,000+S1 | No deduction and enter 0 |