## The "Three Legged Stool" and the "Tax Balance Index"

In discussing tax policy, policy makers often refer to the concept of the "Three Legged Stool." Some argue that a state should have a balanced tax portfolio, implying that tax collections should be split evenly among income, sales, and property taxes. The tax portfolio is "balanced" if each leg of the three-legged stool – the income tax leg, the sales tax leg, and the property tax leg – is of equal length.

The "tax balance index" is a measure of the degree to which the legs are of equal length. If tax collections are one-third from income taxes, one-third from sales taxes, and one-third from property taxes, the three-legged stool is perfectly level and the index is 100. If all tax collections come from only one of the three taxes, the balance index is zero.<sup>1</sup>

Tax shares for each of the big-three taxes are shown in Table 4, along with each year's tax balance index. In the early 1960's, when Minnesota had no sales tax, Minnesota's tax balance index was below 40. With the enactment of the sales tax, the balance index rose to 80 in the 1970's. Between 1986 and 2007, the tax balance index exceeded 90 every year, hitting a peak of 95 in 2004. The index fell below 90 in 2009, rose again to 90 for one year in 2012, remained below 90 since 2013 having only returned to above 90 in 2024. It is expected to remain around 91 from 2025 to 2029.

In 2009, the property tax share exceeded the income tax share for the first time since 1996, and remained so through 2012, but fell below the income tax share in 2013 and is forecast to remain at 33% in forecast years 2025 through 2029.

The sales tax share reached an all-time high of 31.9% in 2003, but it then fell steadily to 26.1% in 2009, since then it has largely stayed at 25%. In 2023 and 2024, it was measured to be 26.9% and 28.2% respectively. It is forecasted to remain between 28% and 27% through 2029.

The income tax share exceeded 40% in 1979-84. It ranged between 34% and 39% for 30 years before rising above 40% again in 2015, increasing to 41% in 2018-2019. It increased to 45.4% in 2022, and then steadily decreased in 2023 and 2024 to 42.1% and 39.2% respectively. It is expected to be around 39% for the forecasted years of 2025 to 2029.

where Share# is the share of one of the three taxes.

<sup>&</sup>lt;sup>1</sup> The formula for the "tax balance index" is: Index = 100\*{1-[abs(Share1-33.333%)+abs(Share2-33.333%)+abs(Share3-33.333%)] / 1.333},

<sup>&</sup>lt;sup>1</sup> Multiplying by 100 and dividing by 1.333 creates an index with a range between 0 and 100.