Minnesota Spending Versus Population And Inflation

spending in billions

$5,000

Year	Actual Spending	Population	Spending /person	Inflation	Spending /person in 2008$	Population Spending	Spending in 2008$	Expected Spending	Mean Annual Spending Increase Since 1960	Mean Annual Spending Increase Since	Annual PxC Increase Since	MN -PxC	5000 salary in MN$	5000 salary in 2008$
1960	**$0.51**	**3,413,864**	**$149**	**1.00**	**$1,084**	**$0.51**	**$0.51**	**$0.51**		**8.6%**	**5.1%**	**3.47**	**$263,698**	**$36,350**
1961	**$0.54**	*3,451,094*	*$156*	**1.01**	*$1,126*	*$0.51*	**$0.51**	*$0.52*	**6.0%**	**8.7%**	*5.2%*	*3.46*	**$248,709**	**$35,990**
1962	**$0.58**	*3,488,729*	*$166*	**1.02**	*$1,183*	*$0.52*	**$0.52**	*$0.53*	**6.6%**	**8.7%**	*5.3%*	*3.42*	**$231,911**	**$35,637**
1963	**$0.64**	*3,526,775*	*$181*	**1.03**	*$1,279*	*$0.53*	**$0.52**	*$0.54*	**7.9%**	**8.7%**	*5.4%*	*3.31*	**$210,091**	**$35,291**
1964	**$0.75**	*3,565,236*	*$210*	**1.05**	*$1,455*	*$0.53*	**$0.53**	*$0.56*	**10.1%**	**8.5%**	*5.4%*	*3.07*	**$179,150**	**$34,619**
1965	**$0.78**	*3,604,116*	*$217*	**1.06**	*$1,490*	*$0.54*	**$0.54**	*$0.57*	**9.0%**	**8.6%**	*5.5%*	*3.08*	**$171,525**	**$34,292**
1966	**$0.89**	*3,643,420*	*$243*	**1.09**	*$1,625*	*$0.54*	**$0.55**	*$0.59*	**9.7%**	**8.5%**	*5.5%*	*2.94*	**$151,383**	**$33,379**
1967	**$0.97**	*3,683,153*	*$263*	**1.13**	*$1,691*	*$0.55*	**$0.58**	*$0.62*	**9.6%**	**8.4%**	*5.5%*	*2.90*	**$138,686**	**$32,168**
1968	**$1.28**	*3,723,320*	*$343*	**1.18**	*$2,115*	*$0.56*	**$0.60**	*$0.66*	**12.2%**	**7.9%**	*5.5%*	*2.37*	**$105,024**	**$30,805**
1969	**$1.32**	*3,763,924*	*$351*	**1.24**	*$2,055*	*$0.56*	**$0.63**	*$0.70*	**11.2%**	**8.0%**	*5.5%*	*2.51*	**$101,749**	**$29,315**
1970	**$1.64**	**3,804,971**	**$431**	**1.31**	**$2,393**	**$0.57**	**$0.67**	**$0.74**	**12.4%**	**7.6%**	**5.5%**	**2.15**	**$81,830**	**$27,748**
1971	**$1.82**	*3,831,240*	*$476*	**1.37**	*$2,527*	*$0.57*	**$0.70**	*$0.78*	**12.3%**	**7.5%**	*5.5%*	*2.05*	**$73,598**	**$26,533**
1972	**$2.17**	*3,857,690*	*$562*	**1.41**	*$2,898*	*$0.58*	**$0.72**	*$0.81*	**12.8%**	**7.2%**	*5.5%*	*1.70*	**$61,918**	**$25,780**
1973	**$2.45**	*3,884,322*	*$631*	**1.50**	*$3,060*	*$0.58*	**$0.76**	*$0.87*	**12.9%**	**7.1%**	*5.5%*	*1.58*	**$54,741**	**$24,233**
1974	**$2.71**	*3,911,139*	*$693*	**1.67**	*$3,015*	*$0.58*	**$0.85**	*$0.97*	**12.7%**	**7.0%**	*5.3%*	*1.67*	**$49,571**	**$21,766**
1975	**$3.00**	*3,938,140*	*$761*	**1.82**	*$3,041*	*$0.59*	**$0.93**	*$1.07*	**12.5%**	**6.9%**	*5.2%*	*1.69*	**$44,777**	**$19,973**
1976	**$3.54**	*3,965,328*	*$893*	**1.92**	*$3,383*	*$0.59*	**$0.98**	*$1.14*	**12.9%**	**6.5%**	*5.1%*	*1.39*	**$37,897**	**$18,932**
1977	**$4.07**	*3,992,704*	*$1,018*	**2.05**	*$3,612*	*$0.60*	**$1.04**	*$1.22*	**13.0%**	**6.3%**	*5.1%*	*1.21*	**$33,020**	**$17,732**
1978	**$4.50**	*4,020,268*	*$1,120*	**2.20**	*$3,701*	*$0.60*	**$1.12**	*$1.32*	**12.9%**	**6.1%**	*5.0%*	*1.16*	**$29,822**	**$16,523**
1979	**$4.57**	*4,048,023*	*$1,128*	**2.45**	*$3,347*	*$0.60*	**$1.25**	*$1.48*	**12.2%**	**6.3%**	*4.7%*	*1.56*	**$29,402**	**$14,837**
1980	**$5.09**	**4,075,970**	**$1,249**	**2.78**	**$3,267**	**$0.61**	**$1.42**	**$1.69**	**12.2%**	**6.1%**	**4.4%**	**1.71**	**$26,364**	**$13,076**
1981	**$5.32**	*4,104,939*	*$1,296*	**3.07**	*$3,070*	*$0.61*	**$1.56**	*$1.88*	**11.8%**	**6.2%**	*4.2%*	*2.01*	**$25,230**	**$11,840**
1982	**$6.17**	*4,134,113*	*$1,492*	**3.26**	*$3,328*	*$0.62*	**$1.66**	*$2.01*	**12.0%**	**5.8%**	*4.1%*	*1.76*	**$21,761**	**$11,150**
1983	**$5.56**	*4,163,495*	*$1,335*	**3.36**	*$2,889*	*$0.62*	**$1.71**	*$2.09*	**11.0%**	**6.5%**	*4.1%*	*2.43*	**$24,156**	**$10,818**
1984	**$7.18**	*4,193,086*	*$1,713*	**3.51**	*$3,548*	*$0.63*	**$1.79**	*$2.20*	**11.7%**	**5.6%**	*4.0%*	*1.62*	**$18,692**	**$10,356**
1985	**$7.59**	*4,222,887*	*$1,797*	**3.64**	*$3,588*	*$0.63*	**$1.85**	*$2.29*	**11.4%**	**5.6%**	*4.0%*	*1.64*	**$17,696**	**$9,986**
1986	**$7.68**	*4,252,900*	*$1,806*	**3.70**	*$3,548*	*$0.63*	**$1.88**	*$2.35*	**11.0%**	**5.9%**	*4.1%*	*1.77*	**$17,481**	**$9,824**
1987	**$8.17**	*4,283,126*	*$1,909*	**3.84**	*$3,613*	*$0.64*	**$1.96**	*$2.45*	**10.8%**	**5.8%**	*4.1%*	*1.76*	**$16,425**	**$9,466**
1988	**$8.72**	*4,313,567*	*$2,021*	**4.00**	*$3,672*	*$0.64*	**$2.04**	*$2.57*	**10.7%**	**5.8%**	*4.0%*	*1.77*	**$15,404**	**$9,088**
1989	**$9.11**	*4,344,224*	*$2,097*	**4.19**	*$3,639*	*$0.65*	**$2.13**	*$2.71*	**10.5%**	**5.9%**	*3.9%*	*1.91*	**$14,735**	**$8,675**
1990	**$10.05**	**4,375,099**	**$2,297**	**4.42**	**$3,778**	**$0.65**	**$2.25**	**$2.88**	**10.5%**	**5.6%**	**3.8%**	**1.79**	**$13,360**	**$8,224**
1991	**$10.57**	*4,426,709*	*$2,388*	**4.60**	*$3,775*	*$0.66*	**$2.34**	*$3.04*	**10.3%**	**5.6%**	*3.7%*	*1.91*	**$12,699**	**$7,902**
1992	**$11.11**	*4,478,929*	*$2,480*	**4.74**	*$3,803*	*$0.67*	**$2.41**	*$3.17*	**10.1%**	**5.7%**	*3.7%*	*1.98*	**$12,090**	**$7,669**
1993	**$11.57**	*4,531,764*	*$2,554*	**4.88**	*$3,805*	*$0.68*	**$2.48**	*$3.30*	**9.9%**	**5.8%**	*3.7%*	*2.11*	**$11,601**	**$7,449**
1994	**$12.74**	*4,585,222*	*$2,778*	**5.01**	*$4,031*	*$0.68*	**$2.55**	*$3.43*	**9.9%**	**5.5%**	*3.7%*	*1.82*	**$10,541**	**$7,255**
1995	**$13.49**	*4,639,311*	*$2,908*	**5.15**	*$4,105*	*$0.69*	**$2.62**	*$3.56*	**9.8%**	**5.4%**	*3.6%*	*1.81*	**$9,953**	**$7,058**

1996	**$13.98**	*4,694,038*	*$2,979*	**5.30**	*$4,086*	*$0.70*	**$2.70**	*$3.71*	**9.6%**	**5.6%**	*3.6%*	*2.01*	**$9,602**	**$6,858**
1997	**$14.85**	*4,749,411*	*$3,128*	**5.42**	*$4,195*	*$0.71*	**$2.76**	*$3.84*	**9.5%**	**5.5%**	*3.6%*	*1.94*	**$9,039**	**$6,707**
1998	**$15.74**	*4,805,437*	*$3,275*	**5.51**	*$4,321*	*$0.72*	**$2.81**	*$3.95*	**9.4%**	**5.5%**	*3.7%*	*1.82*	**$8,531**	**$6,597**
1999	**$16.99**	*4,862,124*	*$3,495*	**5.63**	*$4,513*	*$0.73*	**$2.87**	*$4.08*	**9.4%**	**5.2%**	*3.7%*	*1.52*	**$7,901**	**$6,456**
2000	**$17.60**	**4,919,479**	**$3,578**	**5.82**	**$4,469**	**$0.73**	**$2.96**	**$4.27**	**9.3%**	**5.4%**	**3.6%**	**1.84**	**$7,629**	**$6,246**
2001	**$19.40**	*4,956,124*	*$3,914*	**5.98**	*$4,758*	*$0.74*	**$3.04**	*$4.42*	**9.3%**	**4.8%**	*3.6%*	*1.16*	**$6,921**	**$6,079**
2002	**$20.11**	*4,993,041*	*$4,028*	**6.08**	*$4,816*	*$0.74*	**$3.10**	*$4.53*	**9.1%**	**4.9%**	*3.8%*	*1.15*	**$6,676**	**$5,979**
2003	**$22.57**	*5,030,233*	*$4,487*	**6.22**	*$5,245*	*$0.75*	**$3.17**	*$4.67*	**9.2%**	**3.5%**	*3.9%*	*-0.40*	**$5,948**	**$5,844**
2004	**$22.53**	*5,067,703*	*$4,445*	**6.38**	*$5,066*	*$0.76*	**$3.25**	*$4.82*	**9.0%**	**4.5%**	*4.1%*	*0.40*	**$5,960**	**$5,697**
2005	**$23.29**	*5,105,452*	*$4,562*	**6.60**	*$5,025*	*$0.76*	**$3.36**	*$5.03*	**8.9%**	**4.9%**	*4.0%*	*0.82*	**$5,765**	**$5,508**
2006	**$24.45**	*5,143,481*	*$4,754*	**6.81**	*$5,075*	*$0.77*	**$3.47**	*$5.22*	**8.8%**	**4.8%**	*4.1%*	*0.70*	**$5,491**	**$5,338**
2007	**$25.21**	*5,181,795*	*$4,865*	**7.00**	*$5,053*	*$0.77*	**$3.56**	*$5.41*	**8.7%**	**6.5%**	*4.6%*	*1.88*	**$5,325**	**$5,193**
2008	**$26.85**	**5,220,393**	**$5,144**	**7.27**	**$5,144**	**$0.78**	**$3.70**	**$5.66**	**8.6%**				**$5,000**	**$5,000**
									10.4%	**6.4%**	**4.5%**	**1.87**		

Bold numbers are from sources or derived from sources. Italic numbers are interpolated. Blue numbers are derived.

LEGEND

A Year
Minnesota fiscal year

B Total Spending
General fund plus other spending

C Population
state population

D Spending/person
=B /C (factored)

E Inflation
from source for each 10 years starting 1960, interpolated for other years

F Spending/person in 2008$
=D *E[2008] /E[any year]

G Pop'n Spending
=B[1960] *C[any year] /C[1960]

H Spending in 2008$
=B[1960] *E[any year]

I Expected Spending
=B[1960] *C[2008] /C[1960] *E[any year]

J Mean Annual Spending Increase Since 1960
=(B[2008] /B[1960]^(1/(A[2008]-A[1960]))-1)

K Mean Annual Spending Increase Since

=(B[2008] /B[any year]) ^(1/(A[2008]-A[any year]))-1

L Annual PxC Increase Since
=(C[2008]/C[any year] *E[2008] /E[any year]) ^(1/(A[2008] -A[any year]))-1

M MN -PxC
=(K[any year] -L[any year]) *100

N $5,000 Salary in MN$; $5,000 salary would be worth stated amount if grown at same rate as state expenditures
=5000 *(1+K[any year]) ^(A[2008]-A[any year])

O $5,000 Salary in 2008$; $5,000 salary would be worth stated amount if grown at same rate as inflation
=5000 *(E[2008] /E[any year])

SOURCES
- Spending: Minnesota Management and Budget
- Population: U.S. Census Bureau, U.S. Census Bureau
- Inflation: Minneapolis Federal Reserve bank