Ergodid evolution conformation to US Fed national household flows and stocks for 4Q 1989 and 4Q 2019

Factor = 0 to 1	Count/ Sum	Caput* $m_50_0 = 1$	Tier $m_50_1 = 5$	Tier $m_50_2 = 10$	Tier $m_50_3 = 10$	Tier $m_50_4 = 5$	Cauda $m_50_5 = 1$	Tier m_M0_M ratio	# $^w/_o$ $M0_0$	Avg>1	#	Avg<1

4Q 1989* US Households – Income and Net Worth

Factor	Count/Sum	Caput	Tier	Tier	Tier	Tier	Cauda	Ratio	#	Avg>1	#	Avg<1
50%	100%	23.7%	39.5%	26.3%	8.9%	1.5%	0.1%	1/3	5	39.5%	26	36.8%

The 50% ergodid configuration conforms to the income flow distribution of this data as adjusted.

Adjusted		23.7%	37.2%	25.8%	10.4%	2.8%	0.2%	m_50_0 constrained, 20-80 apportioned by 1/3

Income*	17.3%	43.6%	16.5%	12.3%	7.4%	3.0%
	Top 1%	80-99%	60-80%	40-60%	20-40%	0-20%

Income to Net Worth Ratios: Top 1% = 0.73, Next 49% = 0.93, Bottom 50% = 3.9

Net Worth*	23.6%	37.3%	35.2%	3.9%
	Top 1%	90-99%	50-90%	Bottom 50%

Adjusted		33.6%	41.3%	21.2%	3.5%	0.4%	0.0%	14% shift from 50-90 to 90-99 & 1% for m_50_0

The 60% ergodid configuration conforms to the net worth as capital stock distribution of this data, a 20% spread between flows and stocks.

60%	100%	32.8%	40.9%	20.6%	5.0%	0.6%	0.0%	1/4	5	40.9%	26	26.3%

4Q 2019* US Households – Income and Net Worth

Factor	Count/Sum	Caput	Tier	Tier	Tier	Tier	Cauda	Ratio	#	Avg>1	#	Avg<1
60%	100%	32.8%	40.9%	20.6%	5.0%	0.6%	0.0%	1/4	5	40.9%	26	26.3%

The 60% ergodid configuration conforms to the income flow distribution of this data. (unrelated to 1989)

Adjusted		32.8%	40.0%	20.1%	5.2%	1.8%	0.1%	m_50_0 constrained, 20-80 apportioned by 1/4

Income*	25.9%	46.8%	14.6%	6.9%	3.9%	1.8%
	Top 1%	80-99%	60-80%	40-60%	20-40%	0-20%

Income to Net Worth Ratios: Top 1% = 0.79, Next 49% = 0.99, Bottom 50% = 6.2

Net Worth*	32.7%	37.2%	28.7%	1.4%
	Top 1%	90-99%	50-90%	Bottom 50%

Adjusted		48.7%	37.2%	12.7%	1.2%	0.2%	0.0%	16% shift from 50-90 to 1% for m_50_0

The 72% ergodid configuration conforms to the net worth as capital stock distribution of this data, also a 20% spread.

72%	100%	47.1%	38.3%	12.5%	1.9%	0.2%	0%	1/6	5	38.3%	26	14.6%

Projected US Households if current trends continue, based on 1989 & 2019 figures

Factor	Count/Sum	Caput	Tier	Tier	Tier	Tier	Cauda	Ratio	#	Avg>1	#	Avg<1
72%	100%	47.1%	38.3%	12.5%	1.9%	0.2%	0%	1/6	5	38.3%	26	14.6%

If the 72% ergodid configuration were to conform to the income distribution of a future national data set, based on a 20% spread ...

86.4%	100%	70.3%	25.6%	3.8%	0.3%	0%	0%	1/14	5	25.6%	26	4.1%

the 86.4% ergodid configuration should conform to the capital stock distribution.

92.8%	100%	83.2%	15.6%	1.2%	0%	0%	0%	1/27	5	15.6%	26	1.2%
100%	100%	100%	0%	0%	0%	0%	0%	1/inf	0		31	0%

*"Distributional National Accounts". federalreserve.gov. June 19, 2020. Retrieved August 20, 2020.