

Strub Challenge

2026

Bailey and Clutter 1974

- Base model

- $\ln(H) = a + \frac{b}{A^c}$

- $H = e^{a + \frac{b}{A^c}}$

- Anamorphic approach where $X=a$

- $H = e^{X + \frac{b}{A^c}}$

- $\ln(H) = X + \frac{b}{A^c}$

- $X = \ln(H) - \frac{b}{A^c}$

Bailey and Clutter 1974

- Polymorphic approach where $X=b$

- $\ln(H) = a + \frac{X}{A^c}$
 - $X = A^c[\ln(H) - a]$

- New approach where $X=c$

- $\ln(H) = a + \frac{b}{A^X}$

- $A^X = \frac{[\ln(H)-a]}{b}$

- $\ln(A)X = \ln\left\{\frac{[\ln(H)-a]}{b}\right\}$

- $X = \frac{\ln\left\{\frac{[\ln(H)-a]}{b}\right\}}{\ln(A)}$

VPI - NIMP data

	anamorphic	polymorphic	new
a	x	6.1849106	5.690047
b	-6.27777793	x	-6.505489
c	0.3819768	0.3385033	x
R square	98.4262	98.44485	98.46416

Challenge

- Find the most convincing argument for which approach is best, anamorphic, polymorphic or new.
- Your choice of data.