

P = Personal

$\left\{ \begin{array}{l} \text{Age} \\ \text{Race} \\ \text{Sex} \\ \text{Income} \end{array} \right. \begin{array}{l} 3 \\ 2 \\ 2 \\ 2 \end{array}$

R = Residence

$\left\{ \begin{array}{l} \% \text{ urban} \\ \text{SMSA} \end{array} \right. \begin{array}{l} 2 \\ 3 \end{array}$

I = Itinerary

$\left\{ \begin{array}{l} \text{Region} \\ \text{Season of year} \end{array} \right. \begin{array}{l} 4 \\ 4 \end{array}$

15 df

10,000 Records

- 15 terms

- average x^i & y by site

$\rightarrow$ 64 Records

y = Site average Blood Pb

model 1

WLS

y VS P

$6 + 15 = 21$ terms

$\rightarrow$ STEPWISE

Compute Residuals + weighted means

Plot VS time

Trend

(2)

Repeat for R & I variables

~~overall model~~

model 2

P & R variables

model 3

P, R, & I variables



overall model Trend $\Delta = 3.35$

overall trend $\Delta = 5.61$

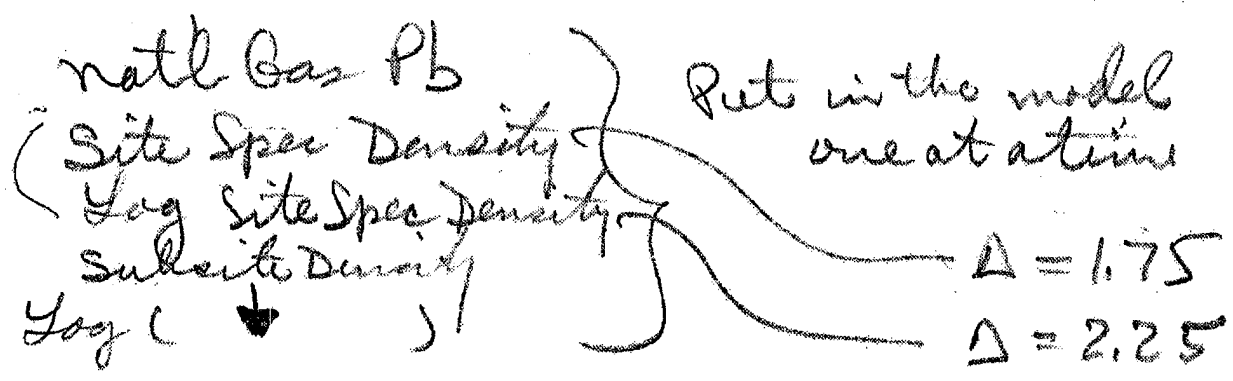
2.26

Each Break of demographics explains
a portion of the trend

∴ The total potential for estimating
the trend due to demographics

Demographics + "Gas Pb"

Compute Residuals
& Regress on time



Demo + Gas Pb + Time

④

$$P - 6 + 15 = 21$$

$$R \quad 3 + 0 = 3$$

$$I \quad 6 + 0 = \underline{6}$$
$$30$$

TEH 0532764

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