

ASG Computing Work Request

Date Requested 4-16-85	Name CG Pfeifer	Charge Code	Page 7 of 4
Project (Product) Plant (Dept) Blood Lead / Blood Pressure Analyzers			#1
Output Title NHANES II			
DATA	Keypunch ☐	Verify ☐	List ☐ Other: _____

Instructions

Variables of Interest

- | | |
|-----------------------------------|--------------------------|
| 1. Blood Pressure - Systolic | 9. Weight |
| 2. Blood Pressure - Diastolic | 10. Height |
| 3. Site ID (1-64) | 11. Hemoglobin |
| 4. Age | 12. Serum Zinc |
| 5. Sex 1=M, 2=F | 13. Red Blood Cell Count |
| 6. Race 1=W, 2=B | 14. Dietary Calcium |
| 7. Date of exam | 15. Alcohol |
| 8. Blood Lead (Venipuncture only) | 16. Dietary Potassium |
| | 17. Albumin |
| | 18. Dietary Vit. C |
| | 19. Dietary Riboflavin |
| | 20. Dietary oleic acid |
| | 21. Serum Vit. C |

Constructed Variables:

Site indicators:

$$X_1 = \begin{cases} 1 & \text{if record from site 1} \\ 0 & \text{otherwise} \end{cases}$$

$$X_2 = \begin{cases} 1 & \text{if record from site 2} \\ 0 & \text{otherwise} \end{cases}$$

$$\vdots$$

$$X_{64} = \begin{cases} 1 & \text{if record from site 64} \\ 0 & \text{otherwise} \end{cases}$$

Body Mass: $\text{Weight} / (\text{height})^2$

Completion Date	Name	Hours Charged
Setup and/or Data Storage		TEH 0412685

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Project (Product) Plant (Dept)

Output Title

DATA

Keypunch ☐

Verify ☐

List ☐

Other: _____

Instructions

Groups of Interest

A: Males 12-74 yrs

B: Females 12-74 yrs

C: White Males ~~12-74~~ 40-59 yrs

① Univariate Summaries (for each group)
for Variables 1, 2, 8, loge 8

② Correlation coefficients between variables (for each group)
for all pairs among 1, 2, 8, loge 8

③ Scatterplots (raw data) (for each group)

Y axis	X axis		Y axis	X axis
1	7	}	1	2
2	7		1	8
8	7		1	loge 8
loge 8	7		2	8
			2	loge 8
			2	

④ Scatterplots within each site for each category

~~Y~~
~~1~~
~~2~~

~~Y~~ ~~X~~
~~1~~ ~~loge 8~~
~~2~~ ~~loge 8~~

64 x 3 = 192 plots

Completion Date	Name	Hours Charged
Setup and/or Data Storage	TEH 0412686	

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Project (Product) Plant (Dept)			
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Instructions

⑤ Correlation Coeff. within sites for each category (group)
between variables 1 vs 8, 1 vs log_e 8, 2 vs 8, 2 vs log_e 8

- include # of pairs of data in each coeff.
- For each of 12 sets of 64 coefficients generate Univariate summaries.

⑥ Regressions on Raw Data - each group
Analyze for both Var 1 + Var 2

Model	Terms
Sites + ln BPb 1	$X_1, X_2, \dots, X_{64}, \log_e(\text{Var } 8) - \log_e(\text{Var } 8)$ [no Y-intercept set to zero]
Sites + ln BPb + Covariates 2	Model 1 + <u>Body mass, BPb Var 11 to Var 21</u> center about mean based on records complete for all variables
ln BPb 3	Model 1 but delete $X_1 - X_{64}$, add Y-intercept
ln BPb + Covariates 4	Model 2 " "

No residual listing. Want VIF (Var. inf. factor), TOL
For Var 1 analyses only, want partial regression residual plots.

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Setup and/or Data Storage		TEH 0412687

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Project (Product) Plant (Dept)			
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Instructions ⑦ Regressions on raw data for Var 1, Var 2, Var 8, loge Var 8 required on time for each category. (Not within site.) ~~~~~ Note: If you haven't run individual regressions within sites, ship for now ~~~~~			
Completion Date	Name	Hours Charged	
Setup and/or Data Storage		TEH 0412688	