STATISTICAL CONSULTING FORM \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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**A175B Plant and Soil Sciences Building**

**College of Agriculture and Natural Resources**

**Michigan State University**

To schedule statistical consulting services with the Statistical Consulting Center (SCC) in the College of Agriculture and Natural Resources (CANR) at Michigan State University, please complete the following form and deliver to the SCC via[**canrscc@msu.edu**](mailto:canrscc@msu.edu) . Please observe the policies and procedures under which the consulting center operates: [http://scc.anr.msu.edu/policies-procedures/](http://scc.anr.msu.edu/policies-procedures/%20%20) .

Please note that clients should recognize the SCC statistical consultants as coauthors when the consultants are asked to be extensively involved with a project (i.e., design, data analysis, and/or preparation of methods and materials, results and discussion for corresponding manuscript). If there are any questions about this particular point, please address your concerns to Drs. Tempelman ([tempelma@msu.edu](mailto:tempelma@msu.edu)) and Kravchenko ([kravche1@msu.edu](mailto:kravche1@msu.edu)).

*This service is intended to support researchers within CANR and MSU AgBioResearch. If you are not affiliated with either CANR or AgBioResearch, please contact the Center for Statistical Training and Consulting (*[*www.cstat.msu.edu*](http://www.cstat.msu.edu/)*) for assistance*.

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| **Office use:** | Date submitted: | Received by: | Processed by: | Assigned to: |
|  | Date processed: | Meeting at (time): | Duration: | SSC Project Number: |

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| **A. General Information** |  |  |
| **Name**: Click here to enter text. | **E-mail**: Click here to enter text. | **Phone**: Click here to enter text. |
| **Dept/Unit**: Click here to enter text. | **Rank**: Choose an item. or Click here to enter text. | |
| **Major Professor** (if student): Click here to enter text. | **Major Professor Email**: Click here to enter text. | |
| **Project Name**: Click here to enter text. | **Status of Experiment**: Choose an item. or Click here to enter text. | |
| **General Subject Matter Area**: Click here to enter text. | **Date and Time Suggested (M-F)**: Click here to enter text. | |
|  |  |  |
| Have you received consulting previously on this project?  Yes  No. If Yes, who was the consultant assigned to you: Click here to enter text.  Would you be willing to conduct your consulting session using Skype ([www.skype.com](http://www.skype.com)) or Zoom ([msu.zoom.us](file:///C:\Users\SCC\Desktop\Lee\msu.zoom.us))? Click here to enter text. | | |

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| **B. Service Requested**  If you know what type of services you need, please indicate the reason for contacting the SCC using the list below. The list should not be interpreted  as a list of services the SCC will perform for you, but as a list of possible areas of consulting services that have been requested in the past. | | |
| **Data Management** |  |  |
| Handling of data in Excel | Data manipulation in SAS | Data manipulation in other software |
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| **Exploratory Statistics** |  |  |
| Descriptive Statistics | Tests of Normality | Other issues: Click here to enter text. |
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| **Design of Experiments** |  |  |
| Randomization | Replication | Blocking (local control) |
| Development of Experimental Plan | Design Replications | |
| Analysis of Designed Experiment | Transformations | Treatment Design |
| Error-Control Design | Design Efficiency | How many reps do I need? |
| Trend Contrasts | Covariance Analysis | Subsampling |
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| **Statistical Design / Analysis** |  |  |
| Completely Randomized Design | Randomized Complete Block Des. | Latin Square |
| Incomplete Block Design | Balanced Incomplete Block Des. | Partially Balanced Block Design |
| Latin Rectangle | Split-Plot Design | Incomplete Block Design |
| Split-Block (Strip-Plot) Design | Lattice Design | Repeated Measures Design |
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| **ANOVA** |  |  |
| Main Effects and Interactions | Slicing of Interactions | Mean Separation Tests |
| Multiple Error Terms | Contrasts | Regression Trends |
| Transformations | Covariates | Comparisons of Cell Means |
|  | | |
| **Hypothesis Tests and Confidence Intervals** | |  |
| One-Sample Tests | Two-Sample Tests | Confidence Intervals |
| Comparing Counts | Comparing Proportions |  |
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| **Regression Analysis** |  |  |
| Simple Linear Regression | Multiple Regression | Transformations |
| Model Selection | Variable Selection | Collinearity |
| Test of Assumptions | Residual Diagnostics | Nonlinear Regression |
| Treatment Comparisons in Nonlinear Regression | |  |
| Dose-Response Curves | Splines |  |
|  |  |  |
| **Categorical/Discrete Data** |  |  |
| Contingency Table Analysis | Chi-Square Tests | Tests of Homogeneity |
| Tests of Independence | Logistic/Probit regression | Generalized linear mixed models |
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| **Other topics** |  |  |
| Spatial statistics  Microarray experiment  qRT-PCR experiment | Multiple comparisons  Nonparametric analysis  Mixed Model Analysis | Multivariate statistics  Messy data analysis  Genetic analysis |
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| **Statistical Software Used (SAS, R, SPSS, Stata, or other stats programs):** Click here to enter text. | | |
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| **C. Description of Problem**.  (Give a concise description of the particular problem you are requesting statistical help for and what you expect from the SCC) |

*Note. For the consultation meeting, please bring in your research materials (such as research plan, reference data, literature, or any others) to help us understand your study. We don’t want to give you any inappropriate statistical advice due to insufficient information. Thank you for your cooperation! – The SCC Team*

***Go Green, Go White, I “Heart” Stats ~***