MUDAC 2024 Rubric

Participant Team ID:				**Judge Team ID:**	

Category	Score: 4 *(Superior)*	Score: 3	Score: 2	Score: 1 *(Emerging)*
Prediction Accuracy Weight: 15%	The total distance between the predicted locations and the optimal locations will be computed for each team. The accuracy of a team's prediction will be scored as follows. $$Score \ = \ 2 + \left(2 * \frac{(Total\ Distance\ -Worst\ Prediction\ )}{(Best\ Prediction\ -\ Worst\ Prediction)} \right)$$ Note: The worst submitted prediction that is valid will receive a score of 2; the best submitted prediction will receive a score of 4; the remaining predictions will receive a score that is linearly interpolated between 2 and 4. If a prediction is not submitted or if a team submits an invalid prediction, then the team will receive a score of 1 for prediction accuracy.			No or invalid GPS coordinates were submitted
Completeness and breadth in providing insights to the client Weight: 30%	The outcomes provided were insightful, actionable, and thought provoking; Crop production, fertilizer use, soil quality, and other factors were thoroughly investigated	The outcomes provided were insightful and actionable; Crop production and fertilizer use were thoroughly investigated	The outcomes provided limited insight, but do appear to be actionable; Some of the important variables were not investigated	The outcomes provided limited insight and do not appear to be actionable; Most of the important variables were not investigated
Effectiveness of analytical procedures used / Evidence of correct curation of data Weight: 20%	The analytical procedures applied were appropriate and correct which led to a thorough and advanced understanding of the client's problem; The data appeared to be correctly curated	The analytical procedures applied were mostly appropriate and mostly correct which led to a sufficient understanding of the client's problem; The data appeared to be correctly curated	Some of the analytical procedures were not applied appropriately or were incorrect which led to a limited understanding of the client's problem; Some of the data did not appear to be correctly curated	Most of the analytical procedures used were not appropriate or serious mistakes were made which led to an incorrect understanding of the client's problem; Most of the data did not appear to be correctly curated
Creativity & Innovation Weight: 15%	Creative/original methods were used in the analysis and discussion of results; Outcomes were feasible and provided substantial value to the client	Creative/original methods were used in the analysis and discussion of results; Outcomes were feasible, but provided little value to the client	Limited creativity/originality was used in the analysis and discussion of results; Outcomes were conventional and provided little value to the client	The analysis and discussion of results were not creative/original; Outcomes were conventional and not valuable to the client

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Communication of Outcomes Weight: 15%	The description of the methods used and the discussion of outcomes were complete and were conveyed in a detailed manner that was easily understood	The description of the methods used and the discussion of outcomes were complete and conveyed in a manner that was ultimately understood	The description of the methods used and/or the discussion of outcomes were at times incomplete or difficult to understand	The description of the methods used and the discussion of outcomes were incomplete and consistently difficult to follow and understand
Team synergy Weight: 5%	All team members participated equally in the presentation and discussions; Team synergy was demonstrated	All team members participated in the presentation and discussions, though not equally; Team synergy was demonstrated	Some team members participated in the presentation and discussions; Some team synergy was demonstrated	Only one team member participated in the presentation and discussions; Little to no team synergy was demonstrated

Comments:

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