GEOSTATISTICAL ANALYST

ArcGIS Geostatistical Analyst is a suite of tools that apply statistical principles to spatial data. With Geostatistical Analyst you can predict surfaces using statistically valid methods as well as identify the prediction uncertainties. Many of the tools in this suite can be utilized with a limited number of data points.

SELECTED FEATURES:

- Analyze data variability, spatial relationships, unusual data values, and data trends
- Multivariate analysis for statistical model building
- Map production displaying predictions, prediction errors, quantiles and probabilities
- Automatically optimize model parameters using cross validation
- Determine suitable locations for monitoring network
- Create forecasting models predicting outcomes of environmental processes

SOFTWARE:

ArcGIS Geostatistical Analyst

SMCRA BENEFITS/USES:

- Predict rainfall to better monitor the hydrological impact in a mined area
- Monitor topsoil redistribution
- Model best methods for native species re-introduction and placement for reclamation projects
- Conduct various environmental analyses

TIPS TRAINING CLASSES:

- Introduction to ArcGIS for Mining and Reclamation
- ArcGIS Spatial Analyst for Mining and Reclamation

NEED HELP ????

Contact: Janine Ferarese
jferarese@osmre.gov