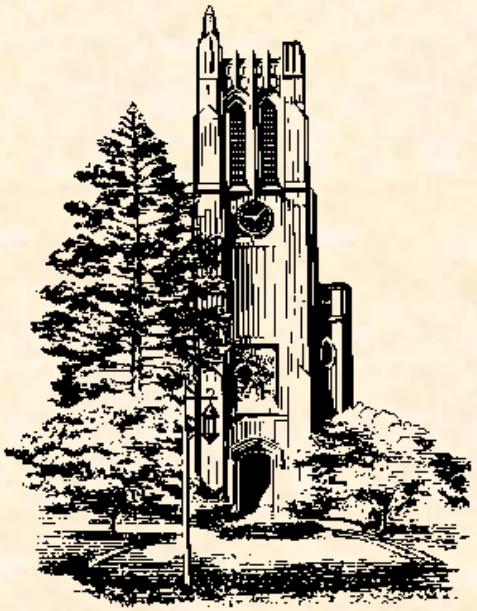
MICHIGAN STATE UNIVERSITY

Beta Demonstration
Irrigation Distribution Uniformity Analysis



Team 7. Toro

CSE 498, Collaborative Design

Andrew Giannini
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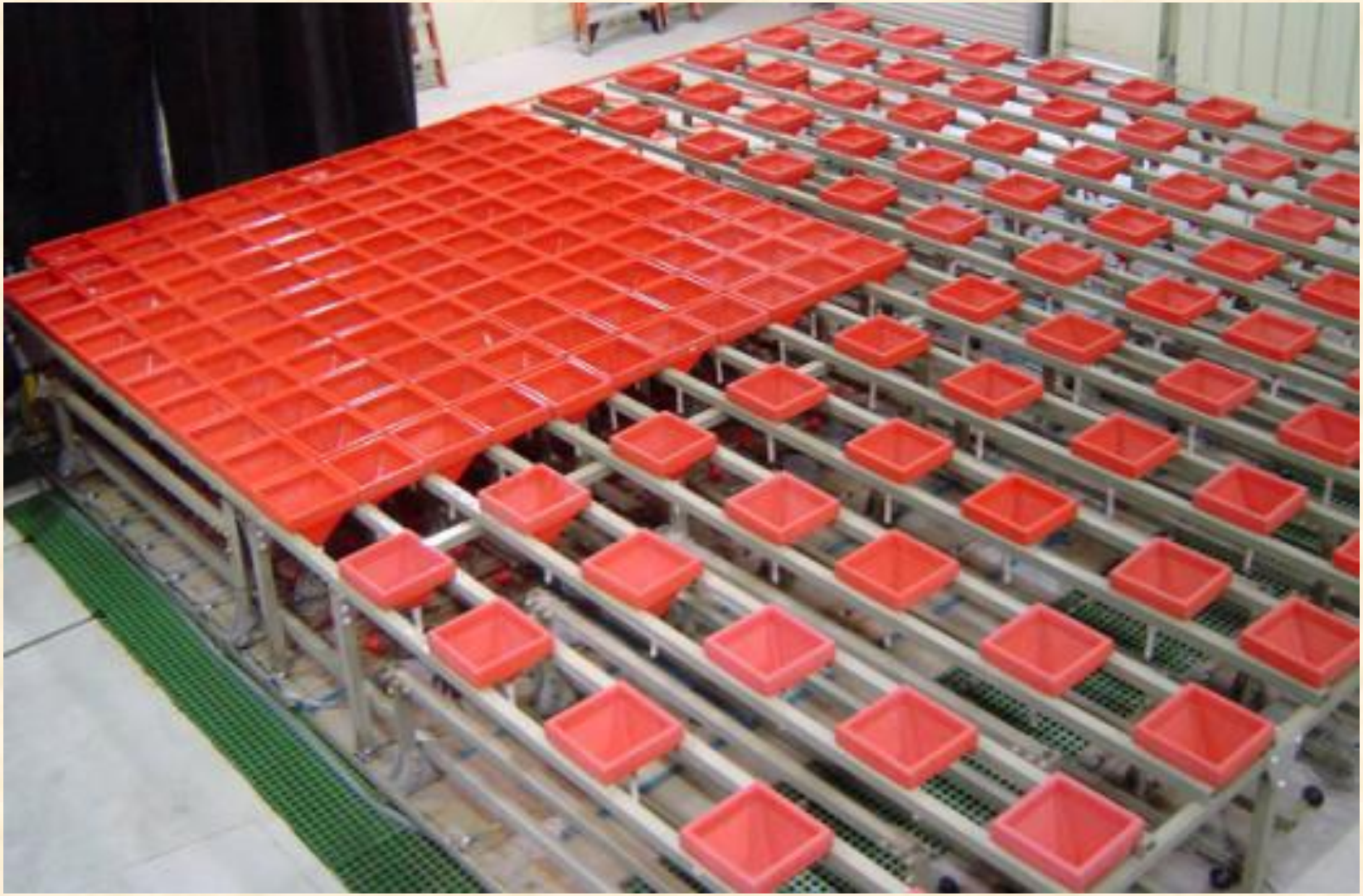
Michigan State University

Fall 2009

Overview: Sprinkler Testing



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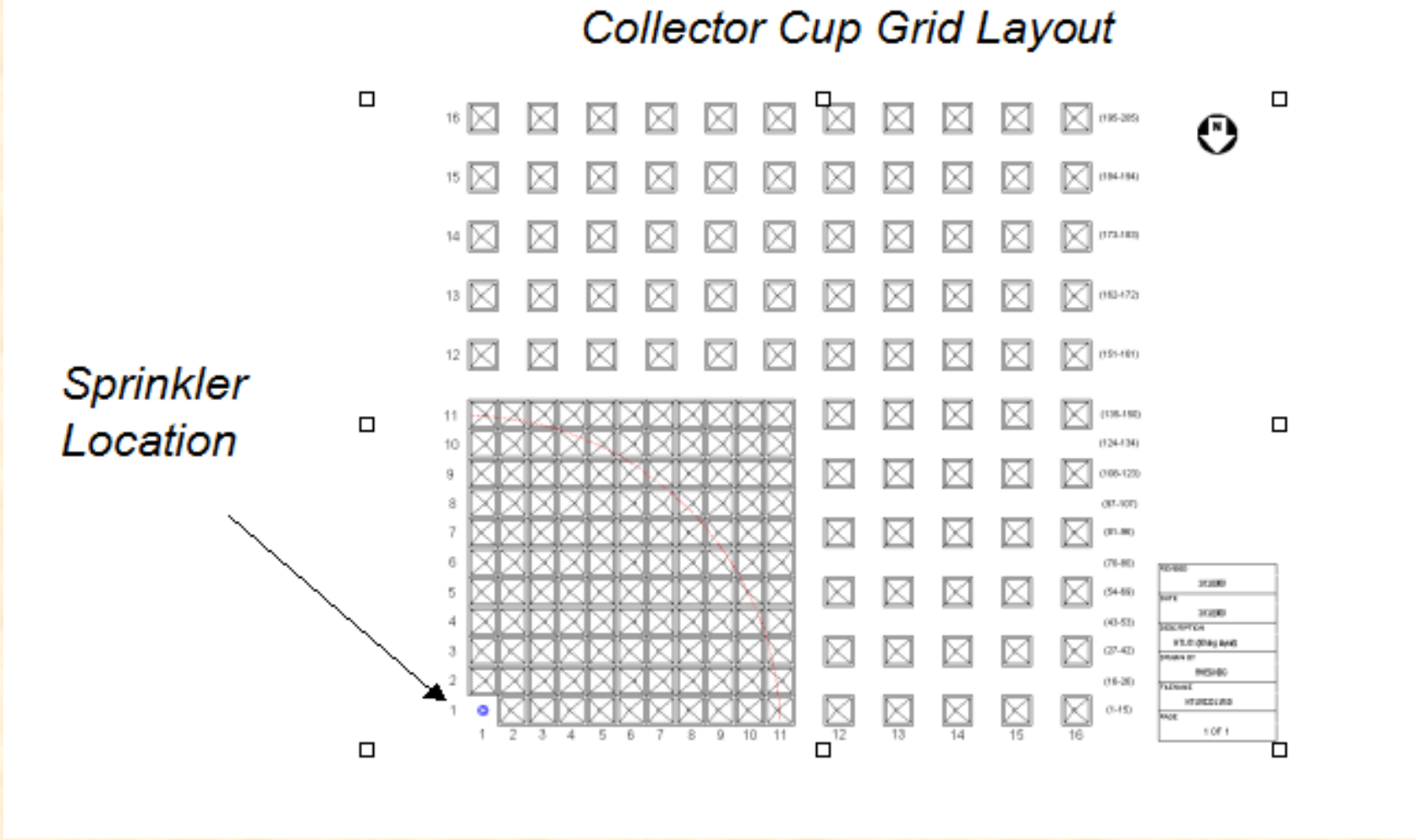
Overview: Data Modeling



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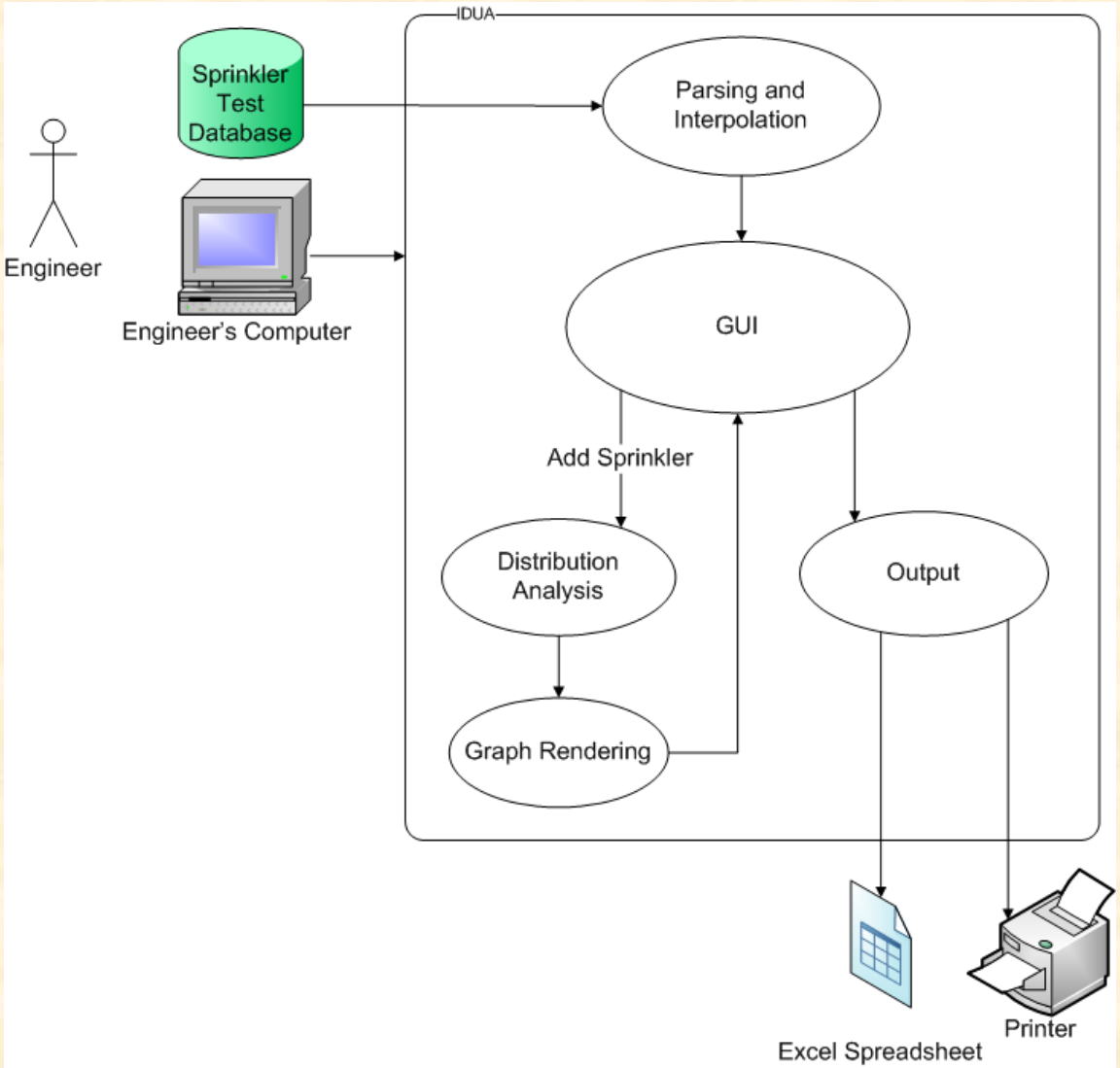
Project Overview

- IDUA is a tool to assist engineers with finding the most efficient arrangement of sprinklers to ensure uniform irrigation
- Retrieves sprinkler test data stored in a MS Access database and performs transformations and calculations
- Represents findings in a visual graph known as densogram

Project Overview, cont.

- Multiple modes: Automatic and manual
- Automatic mode allows for a single sprinkler type to be placed in preset arrangements
- Manual allows for multiple types of sprinklers to be placed as desired

Architecture Illustrated



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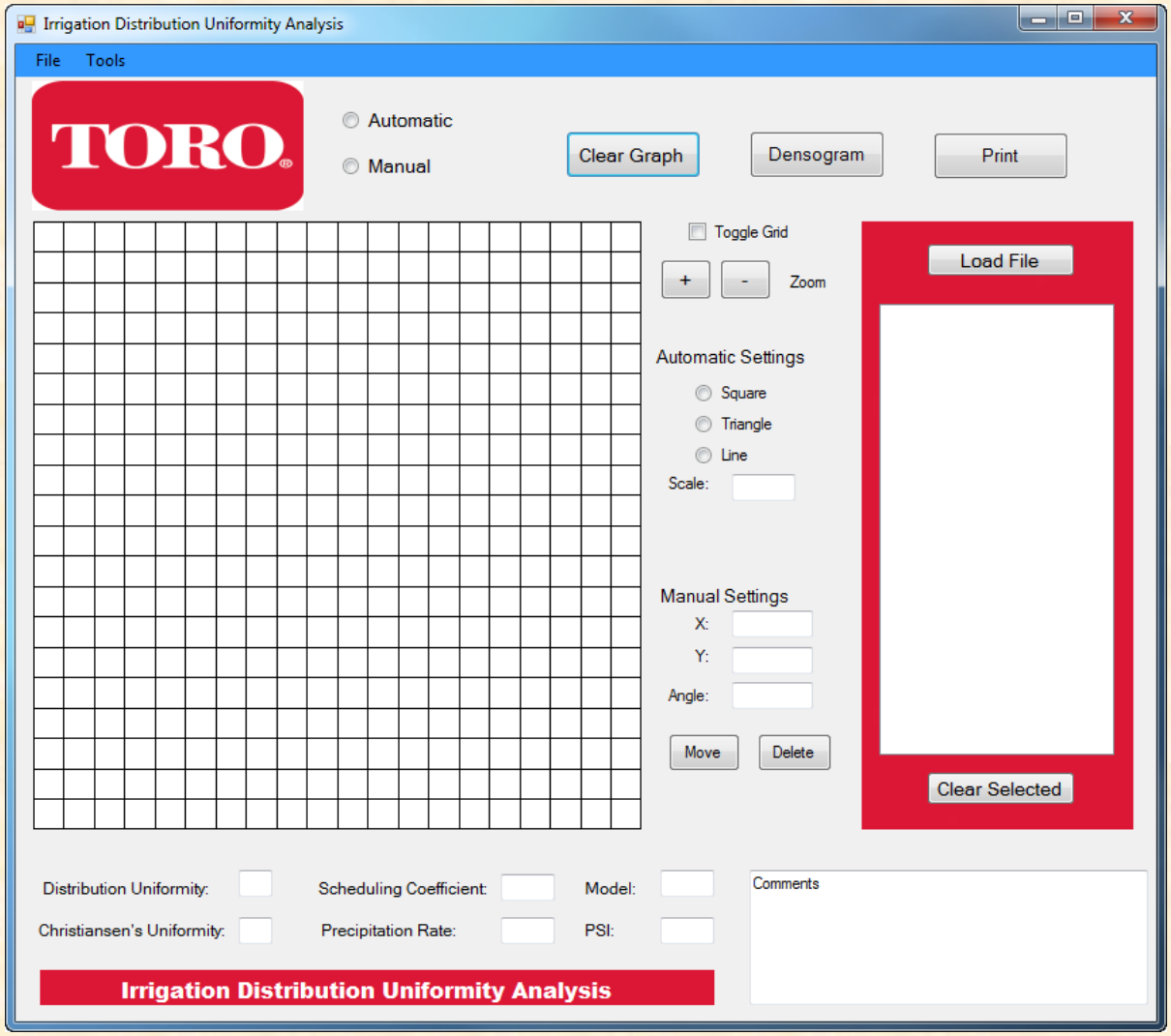
Program Demo



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